Department of Energy

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

In reply refer to: FOIA #BPA-2025-03068-F

October 23, 2025

SENT VIA EMAIL ONLY TO: [redacted]

Kelly Herzog Williams
West Virginia University
[redacted]

Dear Ms. Herzog Williams,

This communication is the Bonneville Power Administration's (BPA) final response to your request for agency records made under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). Your request was received on May 7, 2025, and formally acknowledged on June 5, 2025.

Request & Clarification

From your original request received on May 7, 2025, and from email exchanges with the agency on May 8, 2025, your FOIA request seeks, "…data from January 2001 - to the present related to tree-caused electric utility outages, including but not limited to records of vegetation-related interruptions, tree species involved, geographic location, date of outage, duration, and any available incident notes or contributing weather conditions. This data will be used for academic research under West Virginia University's PhD program in Natural Resource and Forestry Management, focused on improving outage prediction models and risk mitigation strategies through machine learning. And any form of outage investigation detailing the cause and tree details...".

Response

BPA searched for and gathered records responsive to your request from the agency's Vegetation Management & Forestry office. Accompanying this communication are 1366 pages of responsive agency records with the following redactions applied:

- 29 redactions under 5 U.S.C. § 552(b)(6) (Exemption 6)

A more detailed explanation of the applied exemptions follows.

Explanation of Withholdings and Exemptions
The FOIA generally requires the release of all agency records upon request. However, the FOIA permits or requires withholding certain limited information that falls under one or more of nine statutory exemptions (5 U.S.C. §§ 552(b)(1-9)). Further, section (b) of the FOIA, which contains the FOIA's nine statutory exemptions, also directs agencies to publicly release any reasonably segregable, non-exempt information that is contained in those records.

Exemption 6
Exemption 6 serves to protect Personally Identifiable Information (PII) contained in agency records when no overriding public interest in the information exists. BPA does not find an overriding public interest in the release of the information redacted under Exemption 6—specifically, personal and professional cell numbers and logger names and contact information. This information sheds no light on the executive functions of the agency and BPA finds no overriding public interest in its release. BPA cannot waive these redactions, as the protections afforded by Exemption 6 belong to individuals and not to the agency.

Lastly, as required by 5 U.S.C. § 552(a)(8)(A), information has been withheld only in instances where (1) disclosure is prohibited by statute, or (2) BPA foresees that disclosure would harm an interest protected by the exemption cited for the record. When full disclosure of a record is not possible, the FOIA statute further requires that BPA take reasonable steps to segregate and release nonexempt information. The agency has determined that in certain instances partial disclosure is possible and has accordingly segregated the records into exempt and non-exempt portions.

Fees
There are no fees associated with processing your FOIA request.

Certification
Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the records search and response described above. Your records request is now closed with no agency records available to provide.

Appeal
Note that the records release certified above is final. Pursuant to 10 C.F.R. § 1004.8, you may appeal the adequacy of the records search, and the completeness of this final records release, within 90 calendar days from the date of this communication. Appeals should be addressed to:

Director, Office of Hearings and Appeals
HG-1, L'Enfant Plaza
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585-1615

The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal by e-mail to OHA.filings@hq.doe.gov, including the

phrase “Freedom of Information Appeal” in the subject line. (The Office of Hearings and Appeals prefers to receive appeals by email.) The appeal must contain all the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either (1) in the district where you reside, (2) where you have your principal place of business, (3) where DOE’s records are situated, or (4) in the District of Columbia.

Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road-OGIS
College Park, Maryland 20740-6001
E-mail: ogis@nara.gov
Phone: 202-741-5770
Toll-free: 1-877-684-6448
Fax: 202-741-5769

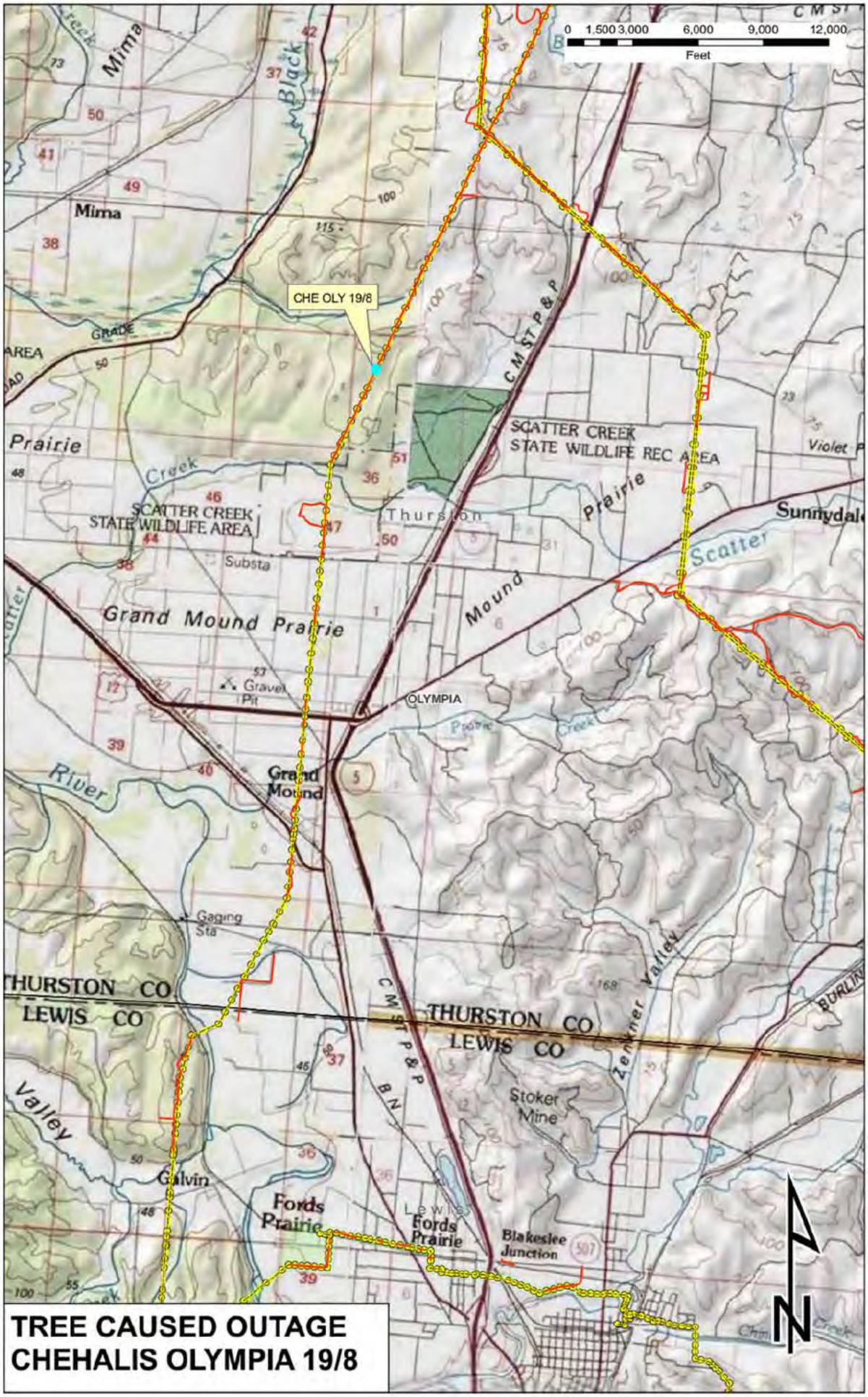
Questions about this communication, or the status of your FOIA request, may be directed to James King, FOIA Public Liaison, at jjking@bpa.gov or 503-230-7621. Questions may also be directed to E. Thanh Knudson, Case Coordinator (ACS Staffing Group), at 503-230-5221 or etknudson@bpa.gov.

Sincerely,

Candice D. Palen
Freedom of Information/Privacy Act Officer

Attachments / Enclosures: Agency records responsive to FOIA request BPA-2025-03068-F accompany this communication.


0 250 500 1,000 1,500 2,000
Feet
CENT OLY 19/8
Tumwater
OLYMPIA
N
TREE CAUSED OUTAGE
CENTREALIA OLYMPIA 19/8



TREE CAUSED OUTAGE
CHEHALIS OLYMPIA 19/8


NAPAVINE
HAYWIRE RD
MILL RD
MOSSYROCK-CHEHALIS NO 1
CHEHALIS-MAYFIELD NO 1
26/4
26/2
26/1
25/7
25/6
25/5
25/4
25/3
25/2
24/8
24/7
24/6
24/5
3/4
0 200 400 800 1,200 1,600
Feet
TREE CAUSED OUTAGE
CHEHALIS - MAYFIELD 3 1
AT 03/04 ON 03/15/2--9
SCD TERS

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector: Tom Girouard

Date of Inspection: 11/26/10

TRANSMISSION LINE DATA

Name *(Operated as)*: Hillsdale Lookout pt #1 115 kV

Location of Outage *(Structures)*: 425 ADL left of 23/1

Date Outage Occurred: ~~11/26/2010~~ Line bump noted on 11/23/10

Duration of Outage: Line relayed back in

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: D. Fir

Approximate DBH:

Approximate Height: 100'

LOCATION OF TREE

Distance from Centerline: 57.5' which is 75 ft. "OFF" ROW

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground?	40 %		
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

White fungus noted at base of tree where it snapped

Dropped three other Fir & hemlock that looked unhealthy next to it, all off ROW

TG.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

Hills Creek - Lookout Point No. 1 115kV 23/1 span







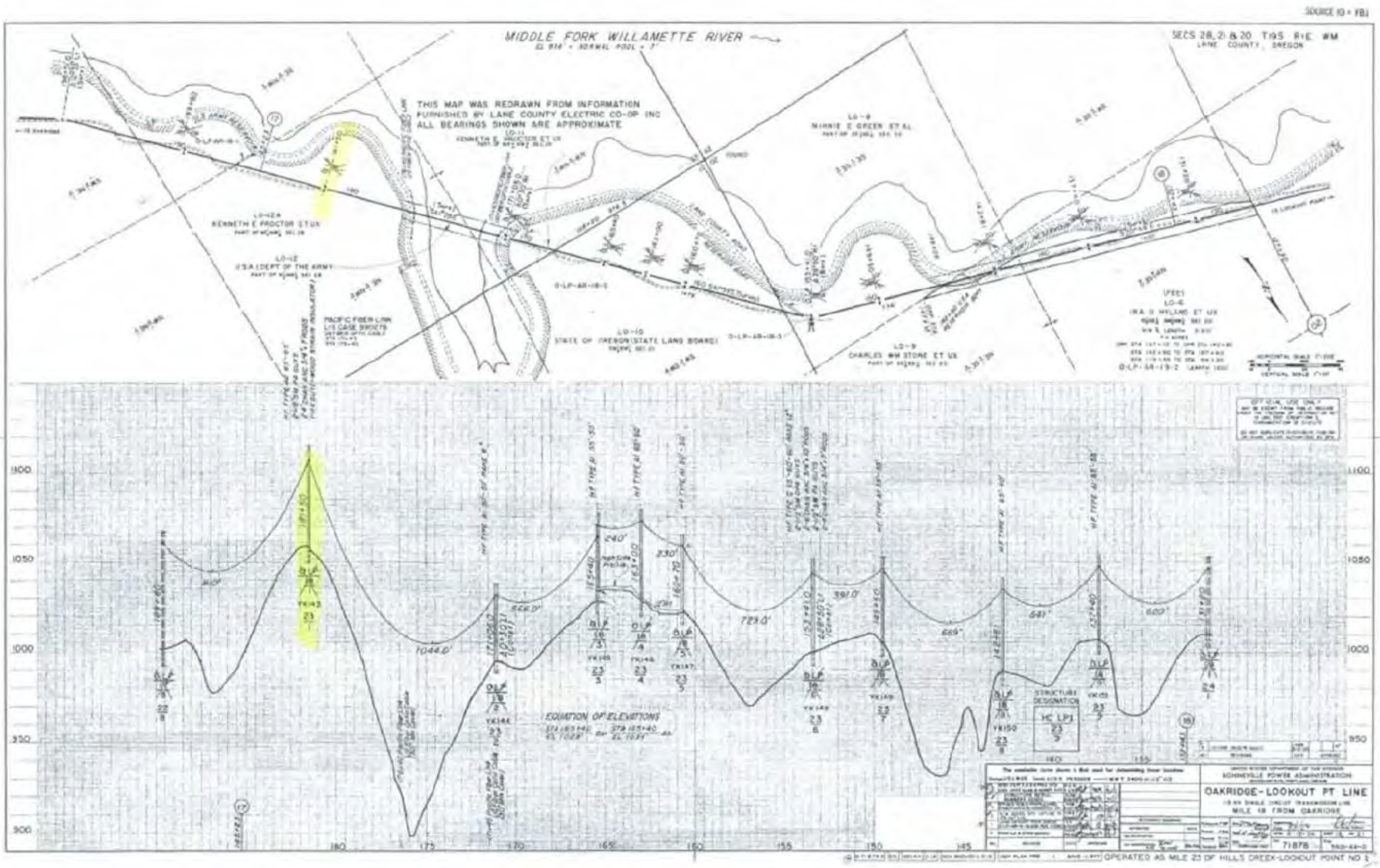


BPA-2025-03068-F 0005
31370167



Hills Creek – Lookout Point No. 1 115kV

23/1 span



BPA-2025-03068-F 0007
31370167

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jake Marti	11/20/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville - Hood River 115KV	5/7
Date Outage Occurred	Duration of Outage
11/17/15	25 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	29"	140'

LOCATION OF TREE

Distance from Centerline 105

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	15%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree's root system has sings of laminated root rot. Other trees in the stand show signs of mortality from root rot. The combination of high winds, saturated soil, and root rot is what caused this tree to fall.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	11/19/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-OLYM 1 230kV	26/9
Date Outage Occurred	Duration of Outage
11/17/15	3.5 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Easterkt	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18-20" DBH	120'

LOCATION OF TREE

Distance from Centerline 95'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Glaciel till

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree shows signs of advanced laminated root rot and all of the buttressing roots are infected and have the consistence of Balsa wood. This stand of trees is showing slight signs of thinning which is a sign that the other trees are infected also.

Return or E-mail form to Kathy Stephenson – TR –TPP-4



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	8/31/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM 1	29/2
Date Outage Occurred	Duration of Outage
8/29/15	HOLC-CHEH 5hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* North	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	4'DBH	138'

LOCATION OF TREE

Distance from Centerline 51'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

- Limb failed 96' above the ground on a 138' tall Doug fir.
- Tree has been side limbed, the branch that failed was parallel to the conducters.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jacob Grinolds	**11/20/15**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Snohomish-Murray #1	**11/7, 13/7, 16/1**
Date Outage Occurred	Duration of Outage
11/17/15	**18 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **E**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock & Doug Fir	**18**	**80-100**

LOCATION OF TREE

Distance from Centerline **78-100 feet**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

11/7- one hemlock 24in dbh, 80 feet tall uprooted. 78 feet from centerline on 62.5 easement.
13/7-double hemlock 19inch dbh, 88 feet tall and 80 foot from centerline on 62.5 easement.
16/1-one doug fir 100 feet tall and 19 dbh, 100 feet from centerline on 62.5 easement
All trees were uprooted from heavy rain saturation and 50mph winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	1-23-2012

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis - Raymond No.1	14/6 - 14/7 BOL 30 feet
Date Outage Occurred	Duration of Outage
1-19-2012	10:47-17/31

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☒	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	10.5 inches	100 feet

LOCATION OF TREE

Distance from Centerline 51 feet

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	2%		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Tree was amoung a reprod stand of aproximatly 40 year old trees. (Wherhauser property)
Tree uprooted and did not fail along the stem, roots where intact and did not show any sighns of Laminated
Tree was off of the ROW.

Return or E-mail form to Kathy Stephenson – TR –TPP-4







BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	1/30/2012

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Holcomb-Naselle No.1	13/5 AHOL 50yards
Date Outage Occurred	**Duration of Outage**
1/18/2012	8:39 wed to 17:00 Thurs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☒	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	8"	96'

LOCATION OF TREE

Distance from Centerline 53'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	4%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This was a multi stem tree that forked aproximatly three feet above the ground. One stem failed aproximatly 40 to 50 feet up up from the base and then fell into the conductor where it hung up until the conductor burnt in half acording to the Chehalis line crew. The tree has stress cracks near the base, that shows sighns of sever bending do to the amount of snow and Ice that had built up on it. The picture cleary shows the burn marks in the tree were it made contact with the energied lines.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1





BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jake Marti	1/3/2012

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville - Hood River #1 115kv	2/5
Date Outage Occurred	Duration of Outage
12/30/2011	8hr

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18	105

LOCATION OF TREE

Distance from Centerline 85'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	60%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree appeared healthy with no visible defects.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

From: Narolski,Steven W - TFBV-DOB1
Sent: Monday, December 13, 2010 9:39 AM
To: Shelton,Jill M - TFBV-DOB1
Subject: FW: Tree Outage.doc
Timber Tap tree outage

Steve Narolski
Vegetation Mgmt. & Access Maintenance Program Manager
Vancouver Office: (360)418-2984
Olympia Office: (360)570-4307
Cell: (b)(6)

From: Reynolds Jr,William A - TFBV-CHEMAWA
Sent: Wednesday, November 17, 2010 10:16 AM
To: Narolski,Steven W - TFBV-DOB1; Sheppard,Charles A - TFBV-DOB1
Cc: Shelton,Jill M - TFBV-DOB1
Subject: FW: Tree Outage.doc

From: Sever,Paul H - TFLF-CHEMAWA
Sent: Wednesday, November 17, 2010 10:04 AM
To: Reynolds Jr,William A - TFBV-CHEMAWA
Subject: Tree Outage.doc

BPA F 4300.64e (11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form Approved by CIL 11/27/01

Name of Inspector	Date of Inspection
Paul Sever / Bill Reynolds	**11/17/10**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber tap to the Keeler - Tillamook no.1 115kv	**5/3**
Date Outage Occurred	Duration of Outage
11/15/10	**18 hrs**

WEATHER AT THE TIME OF OCCURRENCE

	Fair and Calm		Heavy Rain
	None to Moderate Wind		Snow
	Strong Wind *(Indicate direction)* **east**		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
FIR	**60"**	**100'**

LOCATION OF TREE

Distance from Centerline **approx. 60'**

	Uphill		Left Side			
	Downhill	%Slope of ground	**10%**			
	Right Side	On or Off ROW?		On		Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars

	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Crop		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* | | YES | | NO

GENERAL REMARKS

Tree was a healthy tree. Tree broke off about 4 feet off of the ground.

Return or E-mail form to Kathy Stephenson – TR –TPP-4



BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jacob Grinolds / Jason Hunt	12/20/2010

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Rocky Reach-Maple Valley#1	119/1
Date Outage Occurred	**Duration of Outage**
12/18/2010	9 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* N at 40mph	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	22 inch	90 feet

LOCATION OF TREE

Distance from Centerline 86

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☒	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☒	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

tree failed, soil seemed stable

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Douglas Fir located 86 feet from centerline on the Rocky Reach-Maple Valley #1 at structure 119/1. Tree had obvious signs of root rot because it broke off at groundlevel. Bark peeled off easily and showed signs of suns scald which the tree had tried to heal over. Winds were high on Saturday and reports of 50 mph were reported. A couple more trees in the area will be scheduled to remove in the area.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1


ECOL-MPLV-2 : 500 kV
ECOL-MPLV-1 : 500 kV
RKYR-MPLV-1 : 345 kV
168th St
22in Dia, 90 ft Height, 85 ft from centerline
GIS
Created By: jacob Grinolds
Date Created: 12/20/2010
Map Scale: 1:1,727.84
0
0.0
Miles









BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**10/4/11**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU #1	**18/1 AOL 290'**
Date Outage Occurred	Duration of Outage
9/3/11	

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**22"**	**91'**

LOCATION OF TREE

Distance from Centerline **92"**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

The tree had a face cut in it pointing directly towards the condutors and fell in that direction intentionaly.
Easment edge is 62' from the center line, the tree was aproximatly 28' out side of the easment.

Some of the tools that were used to fall this tree had been left on the stump at the site and are shown in the pictures.
Corridor width 250'.
Tree shows significant sighns of being energized.

Return or E-mail form to Kathy Stephenson – TR –TPP-4







From: Sheppard,Charles A - TFBV-DOB1
Sent: Monday, December 13, 2010 9:36 AM
To: Narolski,Steven W - TFBV-DOB1
Cc: Shelton,Jill M - TFBV-DOB1
Subject: FW: Jim Creek 115kV line restoration

Attachments: PIC_0754.JPG; PIC_0788.JPG; PIC_0787.JPG

From: delaCruz,Adelmo - TFN-SNOHOMISH
Sent: Thursday, November 18, 2010 4:42 PM
To: Jackson,Melanie M - TSE-TPP-2; Weiss,John R - TPC-COVINGTON; Anderson,James R - TF-SNOHOMISH
Cc: Sheppard,Charles A - TFBV-DOB1; Narolski,Steven W - TFBV-DOB1; Kannan,Sue - TFB-DOB1
Subject: RE: Jim Creek 115kV line restoration

Some photos from this afternoon

Adelmo

From: delaCruz,Adelmo - TFN-SNOHOMISH
Sent: Thursday, November 18, 2010 3:13 PM
To: Jackson,Melanie M - TSE-TPP-2; Weiss,John R - TPC-COVINGTON; Anderson,James R - TF-SNOHOMISH
Cc: Sheppard,Charles A - TFBV-DOB1; Narolski,Steven W - TFBV-DOB1; Kannan,Sue - TFB-DOB1
Subject: Re: Jim Creek 115kV line restoration

All is going well. The Hemlock tree was just removed off of the conductors within the last hour. There's still an outside conductor that flipped onto the crossarm one span back on line that they'll soon correct so that it suspends correctly. No damaged poles or broken insulators found, and the conductors are in good shape. The line should be re-energized late this afternoon.

From: delaCruz,Adelmo - TFN-SNOHOMISH
To: Jackson,Melanie M - TSE-TPP-2; Weiss,John R - TPC-COVINGTON; Anderson,James R - TF-SNOHOMISH
Cc: Sheppard,Charles A - TFBV-DOB1; Narolski,Steven W - TFBV-DOB1; Kannan,Sue - TFB-DOB1
Sent: Thu Nov 18 09:00:59 2010
Subject: Jim Creek 115kV line restoration

Here's what's occurring today:

My operators will be at East Arlington substation at 11am to work with U.S. Navy personnel to provide BPA personnel with a station clearance. Once this is taken care of, my linemen will then begin their task of hanging personal protective grounds and begin the tree removal, insulator replacement, and other repair tasks that they may encounter today.

My lineman foreman is estimating that all repair and replacement work will be completed by late afternoon.

I'll keep people updated as I get updates.

Adelmo







BPA F 4300.04e
(05-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/xx/2010

Name of Inspector	Date of Inspection
Jacob Grinolds	**11/18/10**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Murray-Custer #1, 230 kV	**3/6**
Date Outage Occurred	Duration of Outage
11/15/10	**8 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **W-24mph**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock -(5 trees)	**24 inch**	**110 ft**

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Wetland area

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

5 Western Hemlock hit the line on Monday Nov 15th. Line was under contract in FY-10 and all CT's in that span were cut. Also a danger Tree Cruise was done on that mile and all 30 DT's that were marked were also removed. Area is wet and Hemlock are weak. Only solution to avoid this would be to cut a safe backline in that area. This area has been a problem for TLM for many years and that is why i had a DT cruise done on that mile.

Return or e-mail form to: TFBV

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector: Bruce Bashor
Date of Inspection: 1·19·2010

TRANSMISSION LINE DATA

Name (Operated as): ALVEY-LANE # 1 230 KV LINE
Location of Outage (Structures): 8/1 + 470' AHOL LEFT
Date Outage Occurred: 1·18·2010
Duration of Outage: 2258 Monday 1/18 to 0447 TUE 1/19

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
■	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: DOUG FIR
Approximate DBH: 14"
Approximate Height: 101'

LOCATION OF TREE

Distance from Centerline: 80'

☐	Uphill	■	Left Side 80'		
☐	Downhill	%Slope of ground	level %		
☐	Right Side	On or Off ROW?	☐ On	■	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

■	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	■	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	■	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	■	~~Logging Fringe~~ FRINGE	■	High Wind
☐	Standing Water	■	Saturated Soils	☐	Broken Branch
☐	Broken Stem	■	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ■ NO

GENERAL REMARKS: A LARGE HOUSE IS BEING BUILT AND SEVERAL TREES WERE REMOVED TO CREAT THE AREA FOR THE HOUSE. BPA TREE CRUISERS NEED TO INSPECT THE OTHER TREES BETWEEN THE HOUSE AND THE ALVEY-LANE LINE. IT LOOKS TO ME LIKE WE NEED TO REMOVE SOME MORE TREES. 4 OTHER TREE WENT DOWN IN SAME AREA DURING STORM. ALL WENT TOWARD THE LINE. CARLOS NEEDS TO LOOK AT THIS SOON.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

Nimmo,Jace H (CONTR) - TFBV-DOB-1

From: Hamel,Dean M - TERS-3
Sent: Thursday, January 28, 2010 6:39 AM
To: Duncan,Stephen C - TERS-3
Subject: FW:

Dean Hamel
Realty Specialist
Danger Tree Crew Lead
(503) 230-5548

From: Mora Flores,Carlos - TFBV-ALVEY
Sent: Friday, January 22, 2010 2:00 PM
To: Hamel,Dean M - TERS-3
Cc: Sheppard,Charles A - TFBV-DOB1; Newbill,Mark A - TFBV-CHEMAWA
Subject:

Hi Dean,
I left a voice message on your phone yesterday (1/21/10) regarding the possibility of sending a crew or someone down to Eugene Region and do an emergency evaluation on the other trees adjacent to the ones that fell on the lines (Alvey-Lane No.1 and Lane-Wendson No. 1) due to the wind storm last few days and avoid more trees falling down. The ones on the Alvey-Lane are in the 8/1+ 470' AHOL left side. A property owner on the left side of the ROW is building a house and apparently took out some trees which left somewhat of a fringe.
The ones on the Lane-Wendson No.1 are in the 12/6+ 600' AHOL left side. The tree that fell on the line in this area was caused by root rot and I am sure a few others are the same that are still standing that can cause problems. I have a contract on this line and it would be great if your crew can evaluate the rest of the trees before my brush cutting crew get to this spot so that they can address them if necessary. Please let me know if this is possible, feel free to contact me if you need additional information.

Thank you,

Carlos Mora
Bonneville Power Administration
Natural Resource Specialist
(541) 988-7433 Office
(b)(6) Cell
(541) 988-7435 Fax

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

Electronic Form
Approved by CIL
11/27/01

TREE-CAUSED OUTAGE REPORT

Name of Inspector: BRUCE BASHOR
Date of Inspection: 1.21.2010

TRANSMISSION LINE DATA

Name *(Operated as)*: LANE-WENDSON #1 115 KV LINE
Location of Outage *(Structures)*: 12/6 +600' AHOL RIGHT
Date Outage Occurred: 1.19.2010
Duration of Outage: 1330 ON 1.19.2010 TO 1915 ON 1.20.2010

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
■	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: DOUGLAS FIR
Approximate DBH: 17"
Approximate Height: 123'

LOCATION OF TREE

Distance from Centerline: 90'

■	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground: 30-45 %			
■	Right Side	On or Off ROW?	☐ On	■	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	■	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	■	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	■	Healthy LOOKING ABOVE GROUND

REASON FOR FALL OR BREAK

■	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	■	High Wind
☐	Standing Water	■	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: RICH / LOAM TYPE FOREST SOIL

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS: THIS TREE HIT ALL THREE LINE CONDUCTORS SO HARD THAT IT BROKE "A" AND "B" POLES @ 12/5 OFF AT THE GROUNDLINE. IN 2001 A FIR TREE HIT APPROX 30' BOL FROM WHERE THIS TREE HIT. THE 2001 TREE ALSO BROKE "A" AND "B" POLES OFF @ 12/5 AT THE GROUNDLINE. THE TREE IN THIS CURRENT OUTAGE SHOWS SIGNS OF SEVERE ROOT ROT". BPA "TREE CRUISERS" NEED TO DO AN "EMERGENCY" INSPECTION OF THE TREES IN THIS SPAN SO WE CAN IDENTIFY AND REMOVE ANY OTHER "DANGER TREES" IN THIS SPAN!

Return or E-mail form to Kathy Stephenson – TR –TPP-4

Nimmo,Jace H (CONTR) - TFBV-DOB-1

From: Hamel,Dean M - TERS-3
Sent: Thursday, January 28, 2010 6:39 AM
To: Duncan,Stephen C - TERS-3
Subject: FW:

Dean Hamel
Realty Specialist
Danger Tree Crew Lead
(503) 230-5548

From: Mora Flores,Carlos - TFBV-ALVEY
Sent: Friday, January 22, 2010 2:00 PM
To: Hamel,Dean M - TERS-3
Cc: Sheppard,Charles A - TFBV-DOB1; Newbill,Mark A - TFBV-CHEMAWA
Subject:

Hi Dean,
I left a voice message on your phone yesterday (1/21/10) regarding the possibility of sending a crew or someone down to Eugene Region and do an emergency evaluation on the other trees adjacent to the ones that fell on the lines (Alvey-Lane No.1 and Lane-Wendson No. 1) due to the wind storm last few days and avoid more trees falling down. The ones on the Alvey-Lane are in the 8/1+ 470' AHOL left side. A property owner on the left side of the ROW is building a house and apparently took out some trees which left somewhat of a fringe.
The ones on the Lane-Wendson No.1 are in the 12/6+ 600' AHOL left side. The tree that fell on the line in this area was caused by root rot and I am sure a few others are the same that are still standing that can cause problems. I have a contract on this line and it would be great if your crew can evaluate the rest of the trees before my brush cutting crew get to this spot so that they can address them if necessary. Please let me know if this is possible, feel free to contact me if you need additional information.

Thank you,

Carlos Mora
Bonneville Power Administration
Natural Resource Specialist
(541) 988-7433 Office
(b)(6) Cell
(541) 988-7435 Fax

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Steve Duncan	1/25/10

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Fairmont - Port Angeles # 2 230 KV	4/2 + 350 Left 90
Date Outage Occurred	Duration of Outage
1/18/10	9:02

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir & Hemlock	22&/ 18	130 & 120

LOCATION OF TREE

Distance from Centerline 90

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

The cause was from the leaving of a fringe of trees between a logging operation and the ROW. Logging was done by WA DNR. Our DT rep. talked with DNR's Dan Walters informing him of our assessment and recommendation of removing additional trees. A sight visit is scheduled between our DT rep. and DNR rep within the next three weeks.

GENERAL REMARKS

Two trees struck the line Douglas Fir 22" X 130' and W. Hemlock 18" X 120'.
Logging operation stopped near the ROW leaving a 50 ft fringe at the corner of the standing timber south of the line. Boggy area where ground was saturated with a compacted clay line layer below top 2 – 3 feet of soil leaving shallow roots. At least 15 additional trees had fallen in the immediate area, most in the North and northwest direction. There is a high probability more trees will fall into the line in this area. Estimate 6 – 10 additional Danger Trees remain.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Ed Tompkins	**3/29/10**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Big Eddy-Ostrander No.1	**55/4 span**
Date Outage Occurred	Duration of Outage
3/29/10	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**25 inches**	**120 feet**

LOCATION OF TREE

Distance from Centerline **105 feet**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**25%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The tree was decayed at the base from Phellinus weirii root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan	3/23/09

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis Mayfield CHEH-MASY1 3mi	+40 3/4 right 100 ft
Date Outage Occurred	**Duration of Outage**
3/13/09	00:16 (16 min)

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)* 25-37 SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir (2)	12 / 20	50 / 140

LOCATION OF TREE

Distance from Centerline 100 RT

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	<5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

Logging within 2 years leaving open area <100 ft. West of fallen trees. Fell N 30 E
Two trees fell within same root wad. Other trees were broken and weakened from fallen trees.
More windfalls have occurred. Based on this, 40 DT's have been marked in the same area from 0 to 700 ft AOL of 3 / 4
The fallen trees showed no evidence of being previously marked D T.
Trees OFF ROW and showed NO evidence of defect.
Results of wind, saturated soil and the exposed West side after logging.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
115 Kv Jim Creek Service 1 SNOHOMISH District	**Between 7/1 and 7/2**
Date Outage Occurred	Duration of Outage
May 12 2009	**4:40**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☐ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

Tree felled into line. NRS will provide report.

GENERAL REMARKS

NRS: Jacob Grinolds
Fm III: Stev Scott

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	**12/3/09**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles - Sappho # 1	**3/2 - 50 ft Left 50 ft**
Date Outage Occurred	Duration of Outage
11/18-19/09	**19:39**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **from SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	**16"**	**90 ft**

LOCATION OF TREE

Distance from Centerline **40 - 60 ft**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0-5%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Rich top soil over compacted clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Fringe was left south of the line leaving about 30 – 50 ft. of fringe trees. High winds, wet soil and newly exposed trees contributed to the tree failure.

GENERAL REMARKS

Douglas Fir exhibited root rot symptoms including no root leaders beyond the root bowl.
Additional contributing factors were a shallow root network because of the clay barrier, saturated soil and high winds. Based on the numerous wind falls along the line, the winds speed was high, gusting and turbulent. It is suspected that additional root rot will be found along this line. DT crews were in the process of assessing the length of the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles - Sappho # 1	9/2 + 200 ft Left 80 ft.
Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF / Grand Fir	24" / 12"	100' / 80'

LOCATION OF TREE

Distance from Centerline 40 - 60 ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Rich top soil over compacted clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Fringe was left south of the line leaving about 30 – 50 ft. of fringe trees. High winds, wet soil and newly exposed trees contributed to the tree failure.

GENERAL REMARKS

Contributing factors were a shallow root network because of the clay barrier, saturated soil, exposed south side and high winds. There were several more windfalls in the area falling in the same general directions but not within MAD. Based on the numerous wind falls along the line, the winds speed was high, gusting and turbulent. Dueto the observations at 3/2 it is suspected that additional root rot will be found along this line. DT crews were in the process of assessing the length of the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles - Sappho # 1	19/4 - 150 Left 70 ft
Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	26"	100'

LOCATION OF TREE

Distance from Centerline 70'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

None

GENERAL REMARKS

Cedar had dry rot and failed at the forks about 12 ft. above ground.
Same area Spruce snapped above ground showing no sings of defect. Did not strike the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles - Sappho # 1	19/4 + 250 Left 100
Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar, double base	48/30	140/120

LOCATION OF TREE

Distance from Centerline 90 ft.

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

None

GENERAL REMARKS

Tree was split at the stump and the smaller tree's root structure appeared to be under cut and exposed. No rot or other defects observed. The tree

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	**1/4/07**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Carlton-Tillamook 230 kV	**10/9**
Date Outage Occurred	Duration of Outage
12/14/06	**Part of an 8332 minute outage**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSW**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Numerous Douglas-fir	**14-24"**	**100-120'**

LOCATION OF TREE

Distance from Centerline **55-90'**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**Varied%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Extreme high winds in this area. Landowner reports that they can see Mt. Hebo from their back deck and winds were blowing from the west/southwest at over 100 mph at Mt. Hebo. Many trees either uprooted or snapped off close to the base. Landowner has since logged the stand next to the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	**1/4/07**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Carlton-Tillamook 230 kV	**Mid-span between 11/6 & 11/7**
Date Outage Occurred	Duration of Outage
12/14/06	**Part of 8332 minute outage**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSW**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Primarily Grand Fir - lots	**14-24"**	**100-120'**

LOCATION OF TREE

Distance from Centerline **55-90'**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**10%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Logging activities caused the trees to fail in this area. The stand on the west side of the line was thinned recently with a small clearcut about 300' from the right-of-way. This thinning and cleared area allowed more wind to come through the stand causing many trees to fall over. The failed trees were uprooted.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/12/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Mayfield 230 kV	-320' 10/8
Date Outage Occurred	**Duration of Outage**
11/13/06	209 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
3 Douglas-fir	14-18"	100' +/-

LOCATION OF TREE

Distance from Centerline 70-130'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

One DF further away from the line fell into two DF closer to the line which forced them onto the wire. It appears that there may have been a new opening (since photomaps made in 1998) in the stand of trees to the south which opened these trees to southern winds. Winds were blowing from the SSW that day at around 30 mph. Soils were also very saturated at the time.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Olympia 230 kV	+130' 28/10
Date Outage Occurred	Duration of Outage
1/6/07	224 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* WSW gusting to 40 mph	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	15"	100'

LOCATION OF TREE

Distance from Centerline 80'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot - about 95% of the roots were infected. High winds were able to hit this tree due to the fact that the area to the west was cleared some time back for a residence leaving a fringe of trees near the powerline.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**1/24/07**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Olympia 230 kV	**AOL & BOL 3/5**
Date Outage Occurred	Duration of Outage
12/14/06	**Part of an 2473 minutes outage**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSW Gusting to 40 mph**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
4 Douglas-fir	**24-28"**	**125'**

LOCATION OF TREE

Distance from Centerline **85-100'**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**Flat%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

There is an older clearcut (currently has a 10 year old DF plantation on it) to the S & W of the impacted area making a triangular piece of taller trees. This impacted stand was thinned many years ago. Tree uprooted, with roots matted within the top 30". No sign of root rot. Soil type indicated that roots rarely penetrate beyond 22" in depth. Winds gusting to 40 mph from the SSW at the time of the failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Olympia 230 kV	+170' 27/1
Date Outage Occurred	**Duration of Outage**
12/14/06	Part of a 2473 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW at 40 mph	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	30"	115'

LOCATION OF TREE

Distance from Centerline 82'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Gravelly sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This was one of the tallest trees in the stand before it failed. The tree is located in a rather poorly stocked stand of trees. Since this tree was on the edge of the ROW, most of its limbs were mainly growing out toward the line. Tree uprooted - roots were matted about 2 1/2' below the surface. There was some sign of root rot, but that did not cause the tree to fail. Winds were gusting up to 40 mph at the time of the failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Olympia 230 kV	-205' 28/10
Date Outage Occurred	**Duration of Outage**
12/14/06	Part of a 2473 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW gusting to 40 mph	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	25"	130'

LOCATION OF TREE

Distance from Centerline 90'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had Laminated Root Rot in about 60% of its roots. The failed tree was also growing on top of an old stump which impaired downward root growth in the center of the tree. There was also a dead standing tree next to the failed tree that also came down and may have contacted the line. DF nearby are showing signs of the root rot. High winds were able to hit the trees due to the fact that the area to the west of the failed tree had been mostly cleared some time back for a residence leaving a fringe of taller trees near the powerline.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/11/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond #1 115 kV	Between 15/3 & 15/4
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 4196 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
2 Douglas-fir	20" & 24"	130'-150'

LOCATION OF TREE

Distance from Centerline 52' & 130'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Loam with clay down about 18"

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Root plates uplifted. Heavy clay caused tree roots to mat about 2' from the surface. Trees were in an area near a small creek that drained a wetland on the ROW. This may have further saturated soils in that area. Trees in that area "jackstrawed" in every direction with a number of trees going down that didn't hit the conductor. Winds were blowing from the south over 40 mph at the time of the failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/11/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond #1 115 kV	+140' 17/1
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 4196 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	14"	65'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Newer clearcut to the SW of the failed tree. This was a young tree that uprooted. No evidence of root rot. High winds hit this small triangle of younger trees. Soils were saturated at the time which contributed to the failure. Other trees within this triangled area came down which may have left this tree open to the high winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond 115 kV	-160' 21/8
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 4196 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	28"	170'

LOCATION OF TREE

Distance from Centerline 90'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree showed some evidence of Laminated Root Rot. Lots of trees were down in this area that either had the disease or had already died of the disease. Big domino effect in the area with many trees falling into each other causing trees to fail.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond 115 kV	near 30/9
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 4196 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	20"	130'

LOCATION OF TREE

Distance from Centerline 95'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay loam - poorly drained, high seasonal water table

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Poor soil was the major cause of the failure of the tree here. The soils are poorly drained and have a high seasonal water table causing shallow roots. Also the tree was growing next to an old stump which restricted its roots from the southwest. There was also some limited sign of root rot in the roots.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Thurston 115 kV	-100' 19/2
Date Outage Occurred	Duration of Outage
12/14/06	Part of 2780 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW in Eugene	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	6"	90'

LOCATION OF TREE

Distance from Centerline 90'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	flat%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The failed tree was a dead snag. The tree broke off about 2.5 feet above the ground.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**12/21/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Thurston 115 kV	**+135' 16/1**
Date Outage Occurred	Duration of Outage
12/14/06	**Part of 2780 minute outage**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSW in Eugene**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**15"**	**70'**

LOCATION OF TREE

Distance from Centerline **58'**

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	**5%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Failed tree had extensive Laminated root rot. Almost all the roots were very infected with only 1 root holding up the tree before it failed. The tree and the stand around it were showing signs of the disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Thurston 115 kV	At 10/6
Date Outage Occurred	Duration of Outage
12/14/06	Part of 2780 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW in Eugene	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16"	95'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	35%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☒	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Failed tree was on the edge of an old road cut. The roots were damaged when the road was built. Recent thinning to the north of this failed tree may have also allowed more wind to hit this tree and thus contributed to its failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/20/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point 115 kV	-50' 21/5
Date Outage Occurred	Duration of Outage
12/14/06	1129 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	26"	140'

LOCATION OF TREE

Distance from Centerline 120'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	20%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Cumley silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Soils here have a rather high water table - 2' to 3' from surface during the wetter parts of the year. Therefore the roots of this tree were shallow. There was a dead standing tree to the south of the failed tree that may have fallen onto the failed tree during high winds forcing the failed tree to fall. No sign of root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**12/20/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Pt. 115 kV	**-250' 9/7 to +170' 9/8**
Date Outage Occurred	Duration of Outage
12/13/06	**503 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
6-7 Douglas-fir	**16"-24"**	**100'-110'**

LOCATION OF TREE

Distance from Centerline **53-85'**

☐	Uphill	☐	Left Side			
☐	Downhill	%Slope of ground	**0%**			
☒	Right Side	On or Off ROW?	☐	On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Stony loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

There was a fire in the area about 4 years ago that killed and weakened many of the trees in this location. This fire killed many of the trees to the east opening the remaining, weakened trees to winds through that area. Trees have very shallow roots due to the large amount of stones in the soil and a high water table in the area. Root plates uplifted.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	12/19/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Grand Ronde-Boyer	4/6
Date Outage Occurred	Duration of Outage
12/14/06	1804 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	40"	120'

LOCATION OF TREE

Distance from Centerline 49'

☐	Uphill	☒	Left Side			
☒	Downhill	%Slope of ground	25%			
☐	Right Side	On or Off ROW?	☒	On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☒	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had an old seam running up and down the tree probably due to frost damage. This old seam allowed interior rot to start. The tree broke about 20' up the bole. There may have been an old break at that location. The tree hit the tower and totally destroyed it.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	12/19/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Grand Ronde-Boyer 115 kV	+300' 1/3
Date Outage Occurred	Duration of Outage
11/12/06	718 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	30"	120'

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Wapato silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree uprooted. Tree was growing fairly close to the river in very saturated soils. The soils in that area have a very high seasonal water table during the wetter months of the year. The roots only went down into the ground about 1.5 feet due to this high water situation and water was standing in the hole left by the root plate. Winds at the time were blowing from the south, gusting to over 40 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
TONY GAMMA/KIM BARBER	9/25/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
FOREST GROVE / McMINNVILLE	10/3--------10/4
Date Outage Occurred	Duration of Outage
9/24/07	1750—1950 HRS.

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
FIR	14"	90

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

9/24 GAMMA TALKED WITH DEWAYNE HUTCHISON WHO SAID HE DID CUT TREE

GENERAL REMARKS

GAMMA CALLED OUT BY MCC DISPATCH AT 1830. GAMMA ARRIVED AT SITE SEVERAL FIRES WERE BEING EXTINGUISHED ALONG ROW AND RESIDENCE BY FIRE DEPT.
TREE HAD CONTACTED POS#1 AND CONDUCTOR WAS PARTED AND ON THE GROUND . OWNER HAD INSTALLED TV DISH UNDER POS#1 WITH COAX CABLE RUN TO RESIDENCE. COAX RUN TO HOUSE WAS CAUSE OF HOUSE FIRE. STUMP SHOWS TREE WAS FACED TO FALL DIRECTLY AT LINE. PO IS (b)(6)
(b)(6) (b)(6)

Return or E-mail form to Kathy Stephenson – TR –TPP-4

Email to Mike Hamel on 12/11/06

Last week a took at look at a couple of tree-caused outages that occurred in November. Here is what I found:

Chehalis-Olympia - just AOL 9/9 on the left (west). DF had extensive Laminated Root Rot. There weren't hardly any roots that weren't infected. I didn't see any other trees in that area that bothered me.

PA-Sappho - AOL 13/8 on Voight's land. It was a DF on the left (south). I didn't go onto his property to inspect the tree.

PA-Sappho - +330' 15/8. DF on the left (south). Tree came down during heavy, wet snow with 10 mph winds. This tree was **not** marked as a DT. No real good reason why it failed and nothing else did.

PA-Sappho - between 17/3 and 17/5. Lots of alder on the left (south). Alder from further back in the stand (to the south) fell into the smaller alder nearest the line, forcing those smaller alder into the line. Failure occurred during high winds. In the area between 17/3 and 17/4, the larger alder further back were in a wetland so had little root strength. In the area AOL 17/4, no good reason why the larger alder further back failed. The alder in front were marked DTs.

PA-Sappho - BOL 25/1. DF on the left (south). The tree's roots were restricted on the west and south side due to another tree growing very close. A Hemlock came down to the DF's east (Hemlock fell to the east) which took away support for the DF on that side and caused the DF to fail during high winds. Also this tree was subject to higher winds during the winter due to there being an alder patch to the south of this tree (leaves off alder this time of year).

PA-Sappho - 31 mile. Couldn't get this area due to a bunch of trees that fell on the road during the snow event.

I plan on going up north this week to get most of the others. I will keep you posted.

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/20/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Dexter Tap to Lookout Point-Alvey 115 kV	-85' 1/5
Date Outage Occurred	Duration of Outage
12/14/06	1005 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* WSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	50"	100'

LOCATION OF TREE

Distance from Centerline 65'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	25%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Root plate uplifted. No sign of root rot. The roots were matted about 2' below the surface indicating a high clay content at that level. There were two trees growing from the same stump, but this was not the cause of the failure. This tree was a marked DT.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Holcomb-Naselle 115 kV	+300' 13/4
Date Outage Occurred	Duration of Outage
11/15/06	1340 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	26"	100'

LOCATION OF TREE

Distance from Centerline 56'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	25%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree broke off about 30' up bole due to an old fork. The larger fork failed. Winds in Astoria were gusting to 60+ mph at the time of the failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Holcomb-Naselle 115 kV	+350' 13/5
Date Outage Occurred	Duration of Outage
12/14/06	715 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
2 Western Hemlocks	8"/20"	100'/130'

LOCATION OF TREE

Distance from Centerline 63'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Trees are in a decadent stand primarily of W. Hemlock. Tree uprooted very near each other. Both trees had shallow roots which is typical of Hemlock.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	3/6/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Keeler-Tillamook 115 kV	AOL 24/4
Date Outage Occurred	**Duration of Outage**
2/27/07	2952 minutes which included time to remove additional trees

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☒	Strong Wind *(Indicate direction)* South gusting to 40 mph	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Several Douglas-fir	16"-30"	110'-120'

LOCATION OF TREE

Distance from Centerline 60'-80'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Several trees went down in this area. At the time of the outage, winds were gusting from the south to 40 mph and the trees were laden with heavy, wet snow. The stand to the south had been either heavily thinned or shelterwood cut a few years back. This part of the line sits on a sadle so the winds came up from the valley and hit this saddle very hard causing the heavily snow-laden trees to fail. One tree did show advanced root rot, but most uprooted with healthy root systems. TLM cut additional trees that were leaning towards the line thus the longer length of the outage time. Primary cause of the outage was due to logging activities.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	1/4/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Keeler-Tillamook 115 kV	+100' 29/6
Date Outage Occurred	**Duration of Outage**
12/14/06	Part of a 2713 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	120'

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	20%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	1/4/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Keeler-Tillamook 115 kV	+400' 32/6
Date Outage Occurred	**Duration of Outage**
12/14/-6	Part of a 2713 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16"	80'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	40%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot. It was located in a pocket of root rot evidenced by other either dead standing or yellowing trees. Tree was on a steep uphill location and fell towards the line. The rest of the trees in this area need to be removed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	10/25/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Libby-Troy section of the Libby-Bonners Ferry 115 kV	-50' 26/5
Date Outage Occurred	Duration of Outage
8/31/2007	Part of 1295 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Swirling	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	17"	100'

LOCATION OF TREE

Distance from Centerline 70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☒	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☒	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The tree broke off about 6' up at a site of an old break or wound. There was heart rot in the butt of the tree. The area experienced a very strong thunderstorm with high winds swirling.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**12/20/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Martin Creek-Drain	**-150' 9/1**
Date Outage Occurred	Duration of Outage
12/14/06	**383 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSW**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	**8"**	**75'**

LOCATION OF TREE

Distance from Centerline **51'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**10%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Large DF on the edge of a newer clearcut fell onto the small failed tree forcing it onto the conductor. The large DF fell parallel to the ROW, but pushed the smaller failed tree right towards the line. The larger DF was a marked DT that hadn't yet been removed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/13/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Murray-Custer	+250' 3/7
Date Outage Occurred	Duration of Outage
11/27/06	339 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	10"	110'

LOCATION OF TREE

Distance from Centerline 110'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Root plate lifted out. Very shallow roots. Heavy, wet snow load in the area caused the tree and a smaller cedar whose roots were intertwined with the Hemlock to fall into the conductor.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Don Atkinson	**12/13/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Murray-Custer 230 kV	**-400' 24/8**
Date Outage Occurred	Duration of Outage
11/15/06	**1552 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **S**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple	**Multiple**	**Multiple**

LOCATION OF TREE

Distance from Centerline **80-100'**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**15%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Trees were in a very wet site with much standing water. Root plates had lifted up and showed very shallow root systems. A number of trees were growing on old logs which hindered their root development. Also, there was a clearcut just to the south that was done a number of years ago. At the time of the outage, winds were coming from the south at over 40 MPH. High winds, standing water, and very wet soils took the multiple trees down.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Naselle-Tarlett #1 115 kV	-235' 1/6
Date Outage Occurred	Duration of Outage
12/14/06	477 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
3 Western Hemlocks	12-24"	100-130'

LOCATION OF TREE

Distance from Centerline 75-100'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Trees were in backyard of residential property. There was only a stip of trees between the house and the ROW. Hemlocks had some thinning foliage. Trees were very shallow rooted and came over in very high winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-Grand Coulee #1 287 kV	-100' 46/5
Date Outage Occurred	**Duration of Outage**
11/10/06	532 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	9"	80'

LOCATION OF TREE

Distance from Centerline 71'

☐	Uphill	☐	Left Side			
☒	Downhill	%Slope of ground	10%			
☒	Right Side	On or Off ROW?	☐	On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Gravelly loam. Water perches above substratum during wet months. Roots don't penetrate more than 40"

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree was located within a logging fringe running parallel to and directly adjacent to the powerline. The area to the south of this fringe was recently clearcut opening this fringe to the high winds. These trees were left as "leave trees" for DNR regulations. Winds were blowing from the south at over 35 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-Grand Coulee #1 287 kV	Midspan 39/3-39/4
Date Outage Occurred	**Duration of Outage**
12/14/06	276 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	20"	100'+

LOCATION OF TREE

Distance from Centerline: Didn't measure

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was in residential yard so did not take measurements and fully inspect the tree. It appeared that the tree was growing very near an old stump thus restricting its roots on the south side. High winds were just starting at the time of the outage.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-S. Tacoma #1 230 kV	-195' 18/1
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 2882 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	18"	120'

LOCATION OF TREE

Distance from Centerline 92'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Gravelly sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot. About 50% of the roots were rotten. High winds took the tree over.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-S. Tacoma #1 230 kV	+350' 32/3
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 2882 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	15"	120'

LOCATION OF TREE

Distance from Centerline 117'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Gravelly soils

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Very gravelly/cobbled soils - poor productivity due to low nutrient availability. Root plate lifted up - roots down only 3 feet. Some evidence of root rot. Tree was on the edge of very visible root rot pocket. Due to the loss of trees within the root rot pocket, this tree was now exposed to the high winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho 115 kV	+330' 15/8
Date Outage Occurred	Duration of Outage
11/26/06	448 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	15"	100'

LOCATION OF TREE

Distance from Centerline 61'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree went over during heavy, wet snow storm. Winds blowing about 10 MPH from the south. Root plate lifted out - no sign of root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho 115 kV	Between 17/3 to 17/5
Date Outage Occurred	**Duration of Outage**
11/15/06	997 minutes - part of multiple outages on this line

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Alder - several	10-18"	100'-120'

LOCATION OF TREE

Distance from Centerline 55-150'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

There were two areas where multiple alder fell into the line. In both cases, larger alder from further back in the stand fell into the smaller alder closest to the line, pushing the smaller alder into the line. Large alder had shallow root systems due to soil conditions.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**12/7/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho 115 kV	**-240' 25/1**
Date Outage Occurred	Duration of Outage
11/15/06	**997 minutes - part of multiple outages on this line**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SE**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**16"**	**70'**

LOCATION OF TREE

Distance from Centerline **55'**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**5%**		
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree's roots were very restricted on the south and west sides due to growing in close proximity to another tree (which had been cut a number of years ago). A Hemlock nearby also went down (fell to the east and not towards line) which then removed some of the DF's support. Root plate lifted out – no sign of root rot. Patch of alder to the south of this tree left this tree open to high winds once the leaves were off the alder. High winds and saturated soils led to this failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**11/29/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Reston-Fairview 2 230 kV	**AOL 23/4**
Date Outage Occurred	Duration of Outage
11/12/06	**644 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **S**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	**14"**	**95'**

LOCATION OF TREE

Distance from Centerline **72'**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**15%**		
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

At the time of the outage, winds were gusting upwards to 45 mph from the south. There was very recent clearcut to the south and west of the failed tree which opened this tree to high winds. Also there was an active creek within a few feet causing soils by the tree to be flooded at the time of the outage. The high winds and very wet soils caused the tree to fail.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	4/25/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Rocky Reach-Maple Valley 345 kV	+450' to +600' 120/5
Date Outage Occurred	**Duration of Outage**
12/14/06	755 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW gusting to 45 mph	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF, RC, WH	12"-30"	100'+

LOCATION OF TREE

Distance from Centerline 90'+

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Gravelly sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Several trees went down in this area. Root plates lifted out and were matted about 1.5' below the surface. Since roots were intwined with roots of other trees, several trees came down at once hitting other trees. To the south of the failed trees is another opening of failed trees that appear to have blown down prior to this incident. That opening allowed winds to hit the trees closest to the line, causing them to fail. Soil is rather shallow (27") to a non-penetrable substatum which causes roots to mat near the surface. There was standing water in places at the failure site when I visited the site.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Pat Gibbs	**12/21/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Salem-Albany #1	**10-4-10/5**
Date Outage Occurred	Duration of Outage
12/14/06	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Alder	**25"**	**60'**

LOCATION OF TREE

Distance from Centerline **40'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**Flat%**		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Due to high wind, the tree sheared off about 3' above groundline and fell across all 3 phases and fiber, but did not damage the line or fiber or poles.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**12/21/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey 1 & 2 230 kV	**+170' 27/3**
Date Outage Occurred	Duration of Outage
12/14/06	**314 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **S in Corvallis & Eugene**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
3 Douglas-fir	**16-20"**	**90-100'**

LOCATION OF TREE

Distance from Centerline **65'**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**10%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Jory silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Neighbor to the south cut most of their trees on their property which exposed the failed trees to high winds from S & W. Trees had rather shallow roots. Soil is primarily clay beyond 6" in depth which restricted rooting depth.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey 1 & 2 230 kV	+260' 28/1
Date Outage Occurred	**Duration of Outage**
12/14/06	Part of 855 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16"	95'

LOCATION OF TREE

Distance from Centerline 71'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	flat%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Bellpine silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

There is an open area to the SW of the failed tree that was opened due to logging some years ago. Soils restrict rooting depth to about 14" below the surface where heavy clay starts. Tree was exposed to winds gusting to 50 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Mark Newbill	**1/3/07**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Toledo	**+250' 49/4**
Date Outage Occurred	Duration of Outage
12/14/06	**3023 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **S in Covallis**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
2 Douglas-fir	**30"+**	**130-150'**

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Two very large Douglas-fir hit the wire in this area - one uprooted and the other snapped off about 20' above the ground. To the west of this stand of trees is a newer clearcut and the stand to the south have recently been thinned. This logging activity made this stand of trees vulnerable to the high winds (winds gusting to 50+ mph in Corvallis).

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	3/14/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Satsop Park-Cosmopolis 115 kV	-410' 8/3
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 1456 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	14"	90'

LOCATION OF TREE

Distance from Centerline 60'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive root rot and was located in a recognizable root rot pocket. It appears that a tree to the NW of the failed tree snapped off and fell against the failed tree, pushing it over, in its weakened state, towards the conductor.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	3/14/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Satsop Park-Cosmopolis 115 kV	-180' 10/2
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 1456 minute outage

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock - 2	24"	110'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	15%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Two large Hemlocks with interconnected roots went down at this location. They were located near the edge of a new clearcut. Both trees had extensive root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/7/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton-Fairmont #1 115 kV	-50' 18/3
Date Outage Occurred	Duration of Outage
12/14/06	3418 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	36"	130'

LOCATION OF TREE

Distance from Centerline 60'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	10%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree was a designated "leave tree" in a recent clearcut. Now being fully exposed to winds, the high winds and saturated soils at the time of the failure caused this tree to fail. The tree destroyed tower 18/3 which had to be rebuilt thus the long outage. Winds at the time of the failure were gusting up to 40 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	3/6/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St. Johns-St. Helens	-100' 21/3
Date Outage Occurred	Duration of Outage
12/14/06	4353 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW gusting to 45 mph	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	6"	85'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	20%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was a tall whip that went over in the high winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Troy Dalrymple	11/3/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St. Johns-St. Helens	

Date Outage Occurred	Duration of Outage
11/3/06	452 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Troy says: "Apparently this logger was clearing out cedars for the wood and boughs, saw the line, knew it was there but of course assumed wrong when he thought it wouldn't hit the line. We asked him which way he faced the tree and were not surprised when he told us he faced it right at the line! He was pretty nonchalant about the whole incident, kind of bragging about it a little. "

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St. Helen-Allston #1 115 kV	-100' 15/6
Date Outage Occurred	Duration of Outage
12/14/06	4170 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	31"	90'

LOCATION OF TREE

Distance from Centerline 60'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	20%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was growing next to another cedar (west of the failed tree) that was cut a number of years ago. Due to the close proximity of the cut tree, roots of the failed tree were restricted to the west. Also other trees nearby had been removed exposing the failed tree to higher winds. Many roots of the failed tree on the west and north side were rotten. There is a culvert drainage from the county road to the north that drains close to the failed tree which may have caused the roots to rot over time.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap 115 kV	-135' 2/7
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 2546 minute outage on Keeler-Tillamook

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	130'

LOCATION OF TREE

Distance from Centerline 115'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	25%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Numerous trees down in this area. It appeared that one tree hit and broke the cross-arm on 2/7. The cause of these failures was a recent clearcut approximately 350' to the west of the stand of trees adjacent to the right-of-way, exposing a large area from 2/6 to AOL 2/7 to the high winds. There was no sign of root rot in the downed trees.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap 115 kV	+300' 6/4
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 2546 minute outage on Keeler-Tillamook

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	18"	120'

LOCATION OF TREE

Distance from Centerline 60'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	50%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot. There was a clearcut uphill and to the southwest that may have opened this tree up to higher winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap 115 kV	-105' 9/9
Date Outage Occurred	Duration of Outage
12/14/06	Part of a 2546 minute outage on Keeler-Tillamook

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	20"	133'

LOCATION OF TREE

Distance from Centerline 66'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	Flat%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminate Root Rot. The tree is located in an area where good forestry is being practiced, i.e. thinning from below. The stand is very healthy looking and no trees in that area were showing any signs of the disease. The failed tree looked very healthy.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/07

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap 115 kV	-150' to -50' 11/9
Date Outage Occurred	**Duration of Outage**
12/14/06	Part of a 2546 minute outage on Keeler-Tillamook

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
About 3 Douglas-fir	14-24"	115-125'

LOCATION OF TREE

Distance from Centerline 60-66'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Lots of standing water in this area at the time of inspection. There was no evidence, however, of root rot, but the trees do not look very healthy. Very shallow roots due to the seasonal high water. Other trees have failed in this stand in the past, but were too short or too far back in the stand to hit the wire. A full-safe backline is recommended in this area.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Swanson	2-1--06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Alston-Astoria 115 kV line	43/1 200ft AHOL
Date Outage Occurred	Duration of Outage
1-31-06	14 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	25"	130'

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Heavy Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Large group of off ROW trees fell in 40-50 MPH wind storm hitting the outage tree, smashing it down and breaking the conductor on position 1

KWS - Visited site on 2/8/06. There is a new housing development going in to the south of this tree so many trees had been removed in that area. This tree was in a small cluster of trees, many of which went down in the storm. The tree had little rot growth to the north since it was growing very near another tree to the south.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Don Swanson	**11/17/05**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Alston - Astoria	**7/5 AHOL 200ft**
Date Outage Occurred	Duration of Outage
11/17/05	**8+ hrs**

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	**12"**	**65ft**

LOCATION OF TREE

Distance from Centerline **55ft**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**90%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Arrived on site, saw the cedar tree on the line.
Saw the cut stump and the handsaw.
Noted the short tree limbs and the apparent bough collection for sale.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
SYVERSON	1-30-06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
ALSTON/CLATSOP # 1 230	27/4 BOL APP. 70'
Date Outage Occurred	Duration of Outage
1-30-06	8.5 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	12"	80

LOCATION OF TREE

Distance from Centerline 64'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Severe winter weather caused outage.
KWS - Inspected site on 2/1/06. Found that the tree had severe Laminated Root Rot. Most of the roots were extremely rotted. The tree is very near a roadway and in an area of past thinning which may increased the risk of failure of this tree from extreme south winds. Winds gusts at Astoria were over 50 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	10/7/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bell-Boundary 3	-315' 77/9
Date Outage Occurred	Duration of Outage
9/30/06	1418 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	15"	100'

LOCATION OF TREE

Distance from Centerline 65'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	20%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Standing Grand Fir snag that went onto the line during moderate wind event. The tree was recently marked as a DT, but negotiations for its removal were still ongoing prior to the outage.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	7/13/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville-Hood River 115 kV	-75' 6/9
Date Outage Occurred	Duration of Outage
7/9/06	348 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)* 20 mph from West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	27"	140'

LOCATION OF TREE

Distance from Centerline 120'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree broke off about 10' above the ground. The whole north side of the tree was rotten up at least 30 feet above the ground. The only holding wood was on the south side. The rot may have been caused by mechanical damage that occurred many years ago near the base of the tree.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
KIM E. BARBER	11/07/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CARLTON/TILLAMOOK #1 230KV	+400' 19/8
Date Outage Occurred	**Duration of Outage**
11/05/05	618 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
FIR - several trees down	18"	105'

LOCATION OF TREE

Distance from Centerline 58'FROM CL

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Heavy clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

AREA WOULD NOT BE CONSIDERED A FRINGE BY TLM OR HELICOPTER PATROL DUE TO DENSITY OF TREES(EDGE OF CLEAR CUT)

KWS: Trees fell out of the corner of a forested area next to a new clearcut. The clearcut line runs perpendicular to the ROW. Several trees went down in that corner, with probably only one actually hitting the line. Roots restricted by heavy clay to only about 3-4 feet.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Olympia #1 230 kV	-275' 26/6
Date Outage Occurred	Duration of Outage
2/17/06	272 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* ENE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	20"	85'

LOCATION OF TREE

Distance from Centerline 60'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot. The tree was showing some sign of the disease in thinning foliage.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond #1 115 kV	AOL 19/9
Date Outage Occurred	Duration of Outage
2/3/06	326 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	18"	85'

LOCATION OF TREE

Distance from Centerline 60'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had Armillaria root disease. High winds caused it to go over.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**2/24/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond 115 kV	**+100 41/6**
Date Outage Occurred	Duration of Outage
2/3/06	**1276 minutes included tree outage at substation**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	**19"**	**85'**

LOCATION OF TREE

Distance from Centerline **52'**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**25%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had Armillaria root disease. Most of the roots were rotten. The tree had been marked as a "DT" but was marked because it had multiple tops and not because it showed any signs of the disease. Tree failed at the base.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**2/24/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond 115 kV	**+55' 45/11**
Date Outage Occurred	Duration of Outage
2/3/06	**1276 minutes which included tree outage at 41 mile**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	**24"**	**85'**

LOCATION OF TREE

Distance from Centerline **Tree on fee owned substation land.**

☐	Uphill	☒	Left Side				
☐	Downhill	%Slope of ground	**0%**				
☐	Right Side	On or Off ROW?	☒	On	☐	Off	

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast		☐	East	
☐	Southeast	☐	South		☐	Southwest	
☐	West	☐	Northwest				

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks		☐	Root Damage	
☐	Snag	☒	Basal Scars		☐	Burn Scars	
☐	Forks	☐	Multiple Stems		☐	Lighting Scars	
☐	Frost Damage	☐	Sun Scald		☐	Undermined Roots	
☐	Bear Damage	☐	Basal Resinosis		☐	None Obvious	

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage		☐	Interior Decay	
☐	Shallow Roots	☐	Distressed Cone Crop		☒	Healthy	

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot		☐	Dead/Dying Tree	
☐	Ice or Snow Load	☐	Old Break		☐	Erosion/Cut Bank	
☐	Human Caused *(cut)*	☐	Logging Fringe		☒	High Wind	
☐	Standing Water	☐	Saturated Soils		☐	Broken Branch	
☐	Broken Stem	☐	Logging Activities		☐	None Obvious	

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Beavers had chewed about 1/3 of the way through the tree on the windward side and also partially girdled the rest of the uneatened part. High winds took it down. Reason for failure was animal damage.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	3/17/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond 115 kV Transmission Line	-240' 7/6
Date Outage Occurred	**Duration of Outage**
3/8/06	227 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16'	110'

LOCATION OF TREE

Distance from Centerline 83'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Olympia silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Root plate lifted up showing that the roots were matted about 1.5' below the surface. There was standing water in the hole created by the root plate. Even though this soil is well drained, it is subject to being very wet in the winter. Weather conditions at the time were very blustery - winds gusting to 30+ mph and heavy rain. The tree was healthy and failed due to saturated soils and high winds.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	10/7/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic 115 kV	+75' 26/6
Date Outage Occurred	Duration of Outage
8/8/06	556 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine (2)	8"	80'

LOCATION OF TREE

Distance from Centerline 70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	20%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Two Lodgepole pine snags fell onto the line during high winds. The trees broke off at ground level. The trees had been marked as DTs for removal, but negotiations for removal were still ongoing at the time of the outage.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Clay Grande	1/29/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point	17/3 200' AOL on the Left
Date Outage Occurred	**Duration of Outage**
1/29/06	477 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* W & SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	22"	140'

LOCATION OF TREE

Distance from Centerline 111'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind was steady with strong gusts. Also it changed direction. It blew from the West and South West.

KWS - Visited site on 6/1/06. Roots of the tree were restricted by the closeness of two other cedar trees. Roots were restricted from growth to the west and the north so poor root hold from winds coming from the west or southwest. High winds plus saturated soils finally brought the tree down.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	**2/6/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point 115 kV	**-350' 25/1**
Date Outage Occurred	Duration of Outage
2/4/06	**527 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SSE**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**42"**	**143'**

LOCATION OF TREE

Distance from Centerline **55'**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**25%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Laminated Root Rot. Very few roots were not infected. Root plate lifted out of ground. Heavy clay soils caused the roots to mat within a few feet of the surface. Saturated soils and high winds (gusts up to 40 mph) caused this tree to go over. There were no outwards sign of the disease when the tree went over.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	11/18/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point 115 kV	+175' 17/1
Date Outage Occurred	**Duration of Outage**
11/5/05	0 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16"	90'

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	10%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had several dead rots due to Laminated Root Rot. There was a dead standing tree next to the failed tree that also showed the disease. Winds in the area were gusting to around 30 mph from the SW just prior to the failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
KIM BARBER	12/18/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
KEELER/OREGON CITY #2	2/6
Date Outage Occurred	Duration of Outage
12/18/05	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* EAST TO WEST	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DEODORA CEDAR	26	75'

LOCATION OF TREE

Distance from Centerline 30'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

ROW FROM C/L IS 25' TREE THAT CAUSED OUTAGE APPROX. 30' FROM C/L AT STRUCTURE 7/6TREE HAD . MULTIPLE TOPS AND LIMBS. OUTAGE WAS FROM SIDE LIMB GROWING UPWARD FROM STEM OF TREE. 14DBH AND APPROX. 50 ' IN LENGTH.WINDS WERE FROM THE EAST WITH STRONG GUSTS.TLM TOPPED TREE TO A SAFE HEIGHT AND SPLICED CONDUCTOR THAT HAD BURNT IN TWO.'

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**1/4/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Keeler-Tillamook #1	**+100' 45/11**
Date Outage Occurred	Duration of Outage
12/28/05	**496 min.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **south**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Bitter Cherry	**8-12"**	**100'**

LOCATION OF TREE

Distance from Centerline **64 feet**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**60%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind gusts at Garibaldi were gusting to around 50 mph at the time of the failure. It appears that perhaps a cherry tree hit another cherry tree that finally popped out into the ROW where the top snapped off on the wires when the majority of the tree hit the ground. Found one tree that did definitely fall over and it had very shallow root system.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Dennis Fisher	11/5/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Libby-Bonners Ferry	+300' 26/2
Date Outage Occurred	**Duration of Outage**
11/5/05	407 min.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Larch	10"	

LOCATION OF TREE

Distance from Centerline 15' off ROW

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

No one was at the site when the TLM crew arrived. The stump appeared that someone fell the tree into the line. There is a fringe of trees between the line and Hwy. 2 and maybe the faller had no idea the line was behind the fringe.

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**6/1/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Martin Creek-Drain	**-100' 9/1**
Date Outage Occurred	Duration of Outage
2/3/06	**479 min**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**20"**	**130'**

LOCATION OF TREE

Distance from Centerline **61'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**20%**		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

New clearcut to the west of the failed trees caused high winds from the southwest to bring down several trees. Clearcut edge runs approximately north/south and these trees were on the corner. There were signs that there was dominoing from trees further back in the stand.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/6/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Naselle Tap to Longview-Astoria	+40' 9/1
Date Outage Occurred	Duration of Outage
11/5/05	204 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	18"	95'

LOCATION OF TREE

Distance from Centerline 52'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	40%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had Armillaria root disease. About 50% of the roots were decayed and the tree was showing some heart rot due to the root disease. There is a 5-year-old (+/-) clearcut to the south of this area which may have opened to the tree to windthrow. The tree resides in a riparian leave area so wasn't cut when the clearcut to the south was cut.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Donald Swanson	**12/18/05**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville - Troutdale #1 230kV Line	**22/1 BOL 200ft**
Date Outage Occurred	Duration of Outage
12/18/05	**265 min.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **east**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**14"**	**110'**

LOCATION OF TREE

Distance from Centerline **82 feet**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**5%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

red clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Thick stand, small section removed from center leaving a fringe effect. Trees not wind firm exposed. Will look at cutting all in stand that can reach the line. Worst scenario for east wind, bad area for the wind.
KWS - I concur with Don's conclusions - recent logging activity to the east opened this tree to windthrow.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/23/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-Shelton #1 115 kV	+100' 8/4
Date Outage Occurred	Duration of Outage
2/4/06	616 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	18"	120'

LOCATION OF TREE

Distance from Centerline 90'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	20%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had Laminated Root Rot. Most of the roots were rotten due to the disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Swanson	2/4/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Big Eddy - McLoughlin 1&2 230 kV	72/4 BOL 300ft
Date Outage Occurred	**Duration of Outage**
2/4/06	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	20"	110'

LOCATION OF TREE

Distance from Centerline 72.5'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☒ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Tree is off ROW but on BPA Ostrander Substation extra property south of the sub. Go to sub, tree will be on south side. We need to schedule this and other wide ROW areas for tree removal this summer. Don Swanson
KWS - Visited site on 3/17/06. Very high water table. Very poor soils which stay wet during the winter. Root plate lifted out and the roots were matted about 1.5' below the surface

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho #1 115 kV	+260' 19/7
Date Outage Occurred	Duration of Outage
2/27/06	653 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	26"	95'

LOCATION OF TREE

Distance from Centerline 70'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had advanced Laminated Root Rot. Almost all the roots were rotten. There was a slight yellowing of last year's foliage, but no other visible signs of the disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho #1 115 kV	-80' 25/7
Date Outage Occurred	Duration of Outage
2/4/06	695 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple W. Hemlocks	22"	110'

LOCATION OF TREE

Distance from Centerline 105'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	16%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

It appeared that a dead standing Hemlock hit a live Hemlock and took that tree down along with 2 other Hemlocks that shared the same root plate. Many of the trees had Armillaria root disease. There was no visible sign of the disease in the tree before it failed. This was one of many trees that hit the line that same evening in the same windstorm.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**2/27/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho #1 115 kV	**-290' 25/8**
Date Outage Occurred	Duration of Outage
2/4/06	**695 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	**18"**	**130'**

LOCATION OF TREE

Distance from Centerline **95'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**15%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This was one of several trees that hit the line in this area and others AOL. The tree that hit the line had shallow roots matted about 2-3' below the ground due to the heavy clay below. This tree was hit by another tree further back in the stand that had root rot (Armillaria). There were a lot of trees that went down during the storm. Many show signs of Armillaria root disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho	-80' 32/2
Date Outage Occurred	Duration of Outage
2/27/06	653 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	18"	100'

LOCATION OF TREE

Distance from Centerline 53'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	45%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Armillaria root rot. Is a dead tree behind it and other trees that fell out of that stand were infected with root rot. Trees were located in a fringe between the access road and the ROW. This was part of a large outage on the line where trees in the 25 mile also hit the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	6/20/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho 115 kV	-200' 17/3
Date Outage Occurred	Duration of Outage
3/9/06	422 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	8"	70'

LOCATION OF TREE

Distance from Centerline 58'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was very burnt so could not determine its condition prior to failure. BPA contractor had recently removed all the "C" trees in that area and this tree was not exposed. DT crew had seen a tree leaning out of the stand at that approximate location. There was snow in the area. The snow load finally took the tree down. The tree did show some minor root rot and the roots were very restricted due to the closeness of other trees near it. It was marked with a DT.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kim E. Barber/Kathy Stephenson	**10/17/05 & 10/19/05**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Salem-Albany#1	**-170' 10/8**
Date Outage Occurred	Duration of Outage
10/14/05	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Cottonwood	**25"**	**85'**

LOCATION OF TREE

Distance from Centerline **65' from center of powerline**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☒	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

KWS - Wind was gusting to around 30 mph at the time from the SW. Tree broke off approximately 2.5' above ground. The tree was damaged a long time ago by beavers. The beavers did not totally girdle the tree, but left a few areas of bark intact. The tree was trying to regrow the bark around the tree, but rot was setting in at the same time. The only thing holding up the tree before it failed was the callous material from the old bark.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson/Don Atkinson	5/10/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Schultz-Echo Lake #1 500 kV	+20' 80/3
Date Outage Occurred	**Duration of Outage**
2/10/06	116 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	40"	135'

LOCATION OF TREE

Distance from Centerline 110'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	10%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Root plate lifted out. There were two Hemlocks that failed - root plates were attached to each other. Root plate was matted very near the surface - shallow roots are typical for Hemlock. There was a very limited area of rot at the base of one of the trees, but 99% of the tree was sound. Trees came down while soils were saturated and during high wind event.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton-Fairmount #1 115 kV	-400' 25/1
Date Outage Occurred	Duration of Outage
2/4/06	1242 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	12"	85'

LOCATION OF TREE

Distance from Centerline 59'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

Tree appears to be have been cut by an axe. I could not tell if the tree had been felled into the line or cut enough so that a good wind from the west would take it into the line. Very suspicious circumstances.

GENERAL REMARKS

This appears to be have been one of three trees that hit the line that same evening. The others were just AOL by 25/2 and near 28/5.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton-Fairmount #1 115 kV	-400' 25/2
Date Outage Occurred	Duration of Outage
2/4/06	1242 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	22"	120'

LOCATION OF TREE

Distance from Centerline 62'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	10%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Stony sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The tree had extensive Laminated Root Rot. Many of the roots were rotten. The soil is very poor consisting of lots of rock and sand and no clay thus the nutrient and moisture level is low. This soil is subject to windthrow since it is fairly shallow. Many trees in the area appeared to have slow growth and yellowing and/or thinning foliage. This tree was one of three that hit the line during the same windstorm.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	**2/27/06**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton-Fairmount #1 115 kV	**+200' 28/5**
Date Outage Occurred	Duration of Outage
2/4/06	**1242 which includes outage in 25 mile**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**14"**	**100'**

LOCATION OF TREE

Distance from Centerline **86'**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**5%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Stony sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The poor soil conditions help to blow this tree onto the wire. The soil is very rocky with sand and no clay thus having low nutrients and moisture. Roots are fairly small so there was little anchoring of the tree. Another tree just 30' AOL also fell out into the ROW and it had the same situation as the tree that hit the line. This soil is subject to windthrow because it is so shallow. This tree was one of three that hit the line that evening during the same windstorm.
Peak wind gusts from the SW at 50 mph.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
mSyverson	2-17-06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St-Johns/St-Helens # 1 115 KV line	4/2 + 300
Date Outage Occurred	Duration of Outage
2-17-06	3.0 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* east	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	17"	90'

LOCATION OF TREE

Distance from Centerline 56'

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	55%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☒	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind blown tree contacted conductor position #3 relaying the line to lock out. Wind was severe. 911 dispatch was called and put us right to the location. Columbia River PUD and PGE lost power for a duration during this outage. Tree broke at stump. KWS - Inspected tree on 2/22/06. Tree snapped off about 3' above the stump. There appears to be an old mechanical wound (made about 20 years ago) that has caused significant interior rot. Much of the heartwood was rotten.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap	-200' 2/6
Date Outage Occurred	Duration of Outage
2/4/06	588 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	12"	100'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☒	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was dead standing. It was located on the edge of a root rot pocket.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
KIM BARBER	12/19/05

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
TIMBER TAP TO KEELER/TILLAMOOK #1	2/6
Date Outage Occurred	**Duration of Outage**
12/19/05	157 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
FIR	12"	100'

LOCATION OF TREE

Distance from Centerline 2/6 APPROX 50' AHOL AND APPROX 70' FROM C/L RIGHT SIDE

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	20%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

NOT SURE IF THERE WAS WIND AT TIME OF BREAK BUT THERE WAS SNOW AND ICE LOADING.THERE WASN'T ANY REAL OBVIOUS SIGNS OF DISEASE OR DEFECTS .THE TREE SPLIT UP ABOUT 4 FEET AND THEN BROKE OFF AND FELL ACROSS LINE

KWS - The outage occurred at 4:30 am after a heavy, wet snowfall turning to freezing rain. Snow/ice load was probably what took the tree down. There were no visible signs of any type of defect that would have led to the failure. The tree was growing very near another larger tree so probably most of the branches and weight were out towards the ROW.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	1/12/06

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Toledo-Wendson #1	-370' 23/1
Date Outage Occurred	**Duration of Outage**
1/10/06	576 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	30"	120'

LOCATION OF TREE

Distance from Centerline 83'

☐	Uphill	☐	Left Side			
☐	Downhill	%Slope of ground	10%			
☒	Right Side	On or Off ROW?	☐	On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Winds at the time of failure were gusting to around 50 mph. Entire root plate lifted out of the ground. There was no sign of disease or defect. There were many trees around it that also went down or were leaning badly. These failed trees were near the edge of a fairly recent clearcut (private property to the south was probably logged a few years ago) which may have contributed to this tree's failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jennifer Knoellinger	12/8/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Boyer-Tillamook No.1	4/2
Date Outage Occurred	**Duration of Outage**
12/7/2015	8 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	120'

LOCATION OF TREE

Distance from Centerline 85'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

At approximately 11:47 AM 12/7/2015, the TLM was notified of an outage on the Boyer-Tillamook No.1 and was sent out to investegate the report. Located at 4/2, the TLM found a 120', 24" DBH had fallen across all three phases of the line. Following protocol, TLM removed the tree from on top of the lines. After the vegetation was removed, the TLM requested power be restored at 8:16 PM. The following day (12/8/15), I headed out on site to examine the tree. The Douglas-fir was located 35' off ROW on the southern side of the easement (left side AHOL). The trees did not show any signs of disease or root rot and had large amounts of healthy green folliage. Given this, the most likely cause of failure was the high winds and saturated soils.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jacob Grinolds	**12/10/15**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Echo Lake-Monroe #1	**12/2**
Date Outage Occurred	Duration of Outage
12/9/15	**7 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **E**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**19**	**85**

LOCATION OF TREE

Distance from Centerline **78**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Doug Fir located 78 from Centerline was hit by one or two other trees that domino'ed into it. Large Doug fir at 115 from centerline uprooted and hit tree at 93 feet which then hit tree at 78 feet and knocked it into line. Hancock Timber recently logged and left a logging fringe which contributed to outage. Combination of logging fringe and saturated soil weakened tree and winds knocked it over. All trees were uprooted.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Liz Keith	12/10/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-Grand Coulee No. 1 500 kV	69/4-69/5
Date Outage Occurred	**Duration of Outage**
12/9/15	~21 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* S-SW; Gusts 41MPH	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Alnus rubra - Red Alder	8-9" DH	~75 ft

LOCATION OF TREE

Distance from Centerline 70 ft

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	25-30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Kanaskat gravelly sandy loam, tuff substratum, 30 to 65 percent slopes

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS

Winds in this area were reported to be gusting up to 41MPH early the morning of 12/9. Soils highly saturated from previous precipitation and runoff amounts were significant. Tree was uprooted due to winds/shallow root system/saturated soils.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jake Marti	12/11/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville - Hood River 115KV	20/2
Date Outage Occurred	Duration of Outage
12/9/15	40 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	27"	110'

LOCATION OF TREE

Distance from Centerline 83'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	50%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The combination of high winds, saturated soil, and root rot is what caused this tree to fail. Root rot had killed the tree and it was dead before it fell into the line. The tree also appeared to have DT painted on it. It was most likely marked as part of the capital rebuild project.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt	12/14/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis-Raymond No. 1	10/2 BOL
Date Outage Occurred	Duration of Outage
12/12/15	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18 DBH	110'

LOCATION OF TREE

Distance from Centerline 77'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree is on a piece of property that is bordering a timber harvest clear cut that occurred in the summer of 2015 and is now open to the wind. This is the main reason for the tree failure.

Tree is 27' off of the ROW.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jennifer Knoellinger	12/18/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Forest Grove-Tillamook No.1	18/4, 600' AHOL left side
Date Outage Occurred	**Duration of Outage**
12/12/2015	23 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	22"	115'

LOCATION OF TREE

Distance from Centerline 58'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	30%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Sandy Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

At approximately 16:30 on Saturday 12/12/2015, TLM was notified of an outage on the Forest Grove-Tillamook No.1. Located at 18/4, the TLM found a 110', 22" tree had fallen into the line. Following protocol, TLM removed the tree from on top of the lines. After the vegetation was removed and the wire was replaced, the TLM requested power be restored at 15:21 12/13/2015. On 12/18/2015, I headed out on site to examine the tree. The Douglas-fir was located 8' off ROW on the southern side of the easement (left side AHOL). The trees did not show any signs of disease or root rot and had large amounts of healthy green folliage. Given this and the low stability of sandy soils, the most likely cause of failure was high winds and saturated soils.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Brett Kohen	12/18/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
SHEL-FAMT-2	8/1
Date Outage Occurred	Duration of Outage
12/17/15	8 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Northerly	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	21"	100-120'

LOCATION OF TREE

Distance from Centerline 77'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This Doug Fir was 77' from the center of the SHEL-FAMT-2 and is considered out of the managed right-of-way and is in an extra width, underutilized right-of-way.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jennifer Knoellinger	12/22/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap to Forest Grove-Tillamook No.1	5/3
Date Outage Occurred	**Duration of Outage**
12/21/2015	542 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	136'

LOCATION OF TREE

Distance from Centerline 56

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silty clam-loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

At approximately 13:24 on Monday 12/21/2015, TLM was notified of an outage on the Timber Tap to Forest Grove-Tillamook No.1. Located at 5/3, the TLM found a 136', 24" tree had fallen into the line. Following protocol, TLM removed the tree from on top of the lines. After the vegetation was removed and the wire was repaired, the TLM requested power be restored at 22:26 on 12/21/2015. On 12/22/2015, I went on site to examine the tree. The Douglas-fir was located 6' off ROW on the western side of the easement (left side AHOL). The trees did not show any signs of disease or root rot and had healthy green folliage. Given this and the low stability of sandy soils, the most likely cause of failure was high winds and saturated soils.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jake Marti	12/24/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville - Hood River 115KV	9/1
Date Outage Occurred	Duration of Outage
12/22/15	52 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	24"	106'

LOCATION OF TREE

Distance from Centerline 84'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	30%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree showed signs of root rot and was growing in an active root rot area. This same span had an outage in the January 2012 ice storm. The combination of root rot, high winds, and saturated soil is what caused this tree to fall.

Return or E-mail form to Kathy Stephenson – TR –TPP-4



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jake Marti	12/22/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville - Hood River 115KV	7/2
Date Outage Occurred	**Duration of Outage**
12/22/15	52 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	27"	140'

LOCATION OF TREE

Distance from Centerline 88'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	30%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Rocky

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree appeared to be healthy with no signs of any defect or root system issues. The soil was extremely saturated. The combination of high winds and saturated soil is what caused this tree to fail.

Return or E-mail form to Kathy Stephenson – TR –TPP-4





BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/22/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Ross-Lexington-1	15/5, 500ft AHOL
Date Outage Occurred	Duration of Outage
12/21/2015	36 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	48"	132'

LOCATION OF TREE

Distance from Centerline 86

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A 60' top of a large Douglas fir tree broke off during a high wind event and fell into the transmission line. This break occurred at a defect within the trunk of the tree. The defect observed was minor forking of the main stem in which some rotting/decaying was also observed. This tree is still standing but is no longer a threat to the transmission line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/22/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Keeler-Allston	42/4, 700ft AHOL
Date Outage Occurred	Duration of Outage
12/21/2015	6 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	17"	90'

LOCATION OF TREE

Distance from Centerline 91

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A Douglas fir tree uprooted due to a combination of saturated soils and heavy winds. No visible sign of declining health.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/22/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Trojan-Allston-1	9/5, 700ft AHOL
Date Outage Occurred	Duration of Outage
12/21/2015	44 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	18"	100'

LOCATION OF TREE

Distance from Centerline 94

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A Douglas fir tree uprooted due to a combination of saturated soils and heavy winds. No visible sign of declining health.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/29/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Ross-Lexington-1	18/4, 400ft AHOL
Date Outage Occurred	**Duration of Outage**
12/21/2015	36 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	20"	105'

LOCATION OF TREE

Distance from Centerline 97

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A Douglas fir tree uprooted due to a combination of saturated soils and heavy winds. No visible sign of declining health. Another Douglas fir tree of similar size nearby and off ROW also fell towards the line. It is difficult to determine if this tree also hit the line because it has been lopped and scattered and only one tree was reported by Olympia TLM at this location.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/29/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Ross-Lexington-1	BOL 200' of 18/3
Date Outage Occurred	Duration of Outage
12/21/2015	36 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	25"	105'

LOCATION OF TREE

Distance from Centerline 77

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Two Douglas fir trees with similar DBH and Height uprooted due to a combination of saturated soils and heavy winds. No visible sign of declining health. An old clear cut exists SW of corridor that may have contributed to the uprooting of these trees.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	**12/29/2015**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Ross-Lexington-1	**17/3, 130ft AHOL**
Date Outage Occurred	Duration of Outage
12/21/2015	**36 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **Southwest**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**35"**	**160'**

LOCATION OF TREE

Distance from Centerline **95**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**5%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☒	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Douglas fir tree uprooted due to a combination of saturated soils and high winds. No visible sign of declining health was observed. The Tree was growing on the upper bank of a small stream. Possible bank erosion may have occurred which contributed to the uprooting of this tree.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/29/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Johns-St Helens (Dutch Canyon-Warren Section)	19/3, 750 AHOL
Date Outage Occurred	Duration of Outage
12/21/2015	14 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	30"	110'

LOCATION OF TREE

Distance from Centerline 83

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Douglas fir tree uprooted due to a combination of saturated soils and high winds. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	**12/30/2015**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Johns-St Helens (Dutch Canyon-Warren Section)	**15/6, 140 AHOL**
Date Outage Occurred	Duration of Outage
12/21/2015	**14 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **Southwest**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	**35"**	**92'**

LOCATION OF TREE

Distance from Centerline **80**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**20%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

One fork from a large multi-forked Western Red Cedar tree broke and fell into the transmission line. This tree had an orange DT painted on its trunk. Only one fork remains attached to this tree but cannot reach the powerline if it fell.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/30/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Helens-Allston (St Helens-Goble Section)	10/3
Date Outage Occurred	Duration of Outage
12/21/2015	51 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	25"	125'

LOCATION OF TREE

Distance from Centerline 85

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Grand Fir tree uprooted due to a combination of saturated soils and high winds. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/30/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Helens-Allston (Goble-Rainier Section)	18/5
Date Outage Occurred	Duration of Outage
12/21/2015	33 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	25"	95'

LOCATION OF TREE

Distance from Centerline 57

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Western Red Cedar tree with multiple stems tree uprooted due to a combination of saturated soils and high winds. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	**12/30/2015**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Helens-Allston (Goble-Rainier Section)	**18/5, BOL 100ft**
Date Outage Occurred	Duration of Outage
12/21/2015	**33 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **Southwest**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**13"**	**90'**

LOCATION OF TREE

Distance from Centerline **51**

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	**15%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A Douglas fir tree uprooted due to a combination of saturated soils and high winds. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	**12/30/2015**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Helens-Allston (Goble-Rainier Section)	**20/1, BOL 100ft**
Date Outage Occurred	Duration of Outage
12/21/2015	**33 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **Southwest**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**25"**	**160'**

LOCATION OF TREE

Distance from Centerline **62**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**10%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Douglas fir tree uprooted due to a combination of saturated soils and high winds. Additionally, another tree uprooted and fell into this tree contributing to the destabilization of the root system. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Chris Morse	12/30/2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Helens-Allston (St Helens-Goble Section)	6/5, BOL 150ft
Date Outage Occurred	Duration of Outage
12/21/2015	51 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Southwest	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	18"	90'

LOCATION OF TREE

Distance from Centerline 68

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Silt Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

A large Douglas fir tree uprooted due to a combination of saturated soils and high winds. Additionally, 2-3 trees uprooted uphill and fell into this tree contributing to the destabilization of the root system. Base of trunk has "S" shape that may have created a weight shift toward the line. No visible sign of declining health was observed.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Brent Thompson	**12/28/15**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Rockdale service line. 15kV	**1/1 - 1/2**
Date Outage Occurred	Duration of Outage
12/17/15	**8hrs.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**15"**	**80'**

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**40%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Rockdale 15kV service line to the repeater off of 190. The crew had to snow shoe into this site due to the large amount of snow and did not have all of the information to complete the tree caused outage form. The generator did turn on so there was not any interruption of power to the communication site.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Paul Sever	**1/1/2016**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Jones Canyon-Santiam No.1	**125/2**
Date Outage Occurred	Duration of Outage
1/1/2016	**3.5 hours**

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	**20"**	**120'**

LOCATION OF TREE

Distance from Centerline **70'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

Paul Sever, TLM Foreman III was one site for the removal of the tree and spoke to crew lead (b)(6) with Freres Lumber Co., Inc. The conversation consisted of explaining the safety hazards of tree removal near power lines and ensuring that they had detailed information on who to call in case of an emergency. Paul also noted that this was the second tree that the logging company (not crew) had fallen into the a BPA power line in the past two weeks. Paul will be following up with the company to ensure that they understand the extreme safety hazard accidents such as this pose to not only their works but TLM crews, and take necessary steps to prevent it in the future.

GENERAL REMARKS

(NOTE: Paul Sever, TLM Foreman III was on-site and supplied the information for this report. I, NRS Jennifer Strombom, completed the report for TFBV records and did not go on site due to weather constraints) On Jan. 1st 2016 at 8:45 AM, a logger with Freres Lumber Co., Inc. fell a 120', 20" DBH Douglas-fir tree into the JSCB-SANT-1, 125/2. The tree was located 600' AHOL, right side, and was 8' off-ROW. The feller had attempted to fall the tree in a parallel direction to the line, but had not accounted for the weight of the limbs on the south side of the tree, causing it to fall directly towards the line. While on site, TLM removed the tree from the line and repaired damages that occurred. Power was restored at 11:00 AM the same day.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Vince Martinez	12-22-2015

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Thurston #1 115kV line	5/3 +150' AOL left
Date Outage Occurred	**Duration of Outage**
12-21-2015	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	20"	90'

LOCATION OF TREE

Distance from Centerline 53'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

This tree looks very healthy until you examine the butt of the tree which has no root structure left and looks like a big ball of brown rot. It would be wise to have a BPA Forester inspect other trees in this span / area to see if we have more trees with root rot that could present future outages on this line.

Bruce Bashor - Line Foreman I

Return or e-mail form to: Steve Narolski – TFBV – DOB-1


CUGR
THUR
LINE
1
MILE
5
TOWER
3
2015.12.21


2015.12.21


2015.12.21

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt	12/11/4

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Mossyrock-Chehalis	7/3
Date Outage Occurred	Duration of Outage
12/10/14	14 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	32	100-120

LOCATION OF TREE

Distance from Centerline 95 ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This doug fir showed advanced signs of laminated root rot

Return or E-mail form to Kathy Stephenson – TR –TPP-4

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor-TLM/Carlos Mora-NRS	12/17/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALVEY-FAIRVIEW NO 1, A-R 1 SECT	64/1
Date Outage Occurred	**Duration of Outage**
12/17/2012	562 MINUTES

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24"	100'

LOCATION OF TREE

Distance from Centerline	74.5'				
	Uphill		Left Side		
	Downhill	% Slope of ground			
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
X	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [X] NO

(Please type comments below)

GENERAL REMARKS

A large cedar tree (approximately 32" DBH) broke off 20' above ground and dominoed onto two Douglas fir trees. The cedar tree that broke off shoved the two Douglas fir trees towards the line, the two Douglas fir trees uprooted which resulted in one of them hitting positions #2 & #3 at 64/1 + 146' AHOL right.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt (Olympia)	11/4/2013

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	23/4
Date Outage Occurred	**Duration of Outage**
11/2/2013	126 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	18"	110'

LOCATION OF TREE

Distance from Centerline	70'				
	Uphill	X	Left Side		
	Downhill	% Slope of ground	0.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage		
	Snag	X	Basal Scars		Burn Scars		
	Forks		Multiple Stems		Lighting Scars		
	Frost Damage		Sun Scald		Undermined Roots		
	Bear Damage	X	Basal Resinosis		None Obvious		

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay		
	Shallow Roots		Distressed Cone Corp		Healthy		

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot	X	Dead/Dying Tree		
	Ice or Snow Load		Old Break		Erosion/Cut Bank		
	Human Caused *(cut)*		Logging Fringe	X	High Wind		
	Standing Water		Saturated Soils		Broken Branch		
X	Broken Stem		Logging Activities		None Obvious		

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

The tree shows signs of Laminated Root Rot, visible mycelia fibers through out the trunk of the tree. The tree failed at approximately 27' above the ground and showed signs of disease this far up into the trunk. The tree has basal weeping and wood pecker damage. The easement is 126' feet wide, 62.5 from center line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor/Carlos Mora (Alvey)	2/8/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALVEY-FAIRVIEW NO 1, A-R 1 SECT	18/6 Right side of structure
Date Outage Occurred	**Duration of Outage**
2/8/2014	0311-0954

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*	X	Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	15"	100'

LOCATION OF TREE

Distance from Centerline	90'				
	Uphill		Left Side		
	Downhill	% Slope of ground	0.0%		
X	Right Side	On or Off ROW?		On	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Bruce - Two to three inches of wet heavy snow followed by several hours of freezing rain. 2/10/14 - NRS (Carlos Mora) re-inspected and concur with TLM's findings.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt (Olympis)	1/13/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	32/6 - 32/8
Date Outage Occurred	**Duration of Outage**
1/11/2014	Still Out

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	4'	163'

LOCATION OF TREE

Distance from Centerline	57'				
	Uphill		X	Left Side	
	Downhill	% Slope of ground		30.0%	
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks	X	Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
X	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

This tree was located 57' from the center of the easment. The tree failed 35' above the ground where the tree split into two trunks. This area was a drainage buffer that was left by the DNR, from a timber sale that was conducted in the last 2-3 years. There is aproximatly 10 trees that the TLM crew is going to remove that pose a significant threat to the lines in the next high wind event. A large portion of the work to restore this outage is rebuilding the acces road that DNR abondoned in their last sale. A significant amount of cat work and rock will be utilized so BPA can get some equipment down to the outage. DNR added several days to the restoration of this power outage by removing the BPA access road.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Murphy/Gilmore	10/18/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COLVILLE-REPUBLIC NO 1	33/4 98 FT. BOL of structure
Date Outage Occurred	**Duration of Outage**
10/17/2012	42 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
lodgepole pine	14"	90

LOCATION OF TREE

Distance from Centerline	83'		
	Uphill		Left Side
	Downhill	% Slope of ground	2% FLAT
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	X	Root Damage
X	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree was located approximately 35 feet "inside timbered edge." I recommend entire circuit be appraised and cleared to a full, safe backline to reduce the probability of similar outages.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor/Carlos Mora (Alvey)	2/8/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
DORENA TAP TO ALVEY-MARTIN CREEK NO 1	4/4 +375' AHOL
Date Outage Occurred	**Duration of Outage**
2/8/2014	1209-1822

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm	X	Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*	X	Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	12"	115'

LOCATION OF TREE

Distance from Centerline: 54'

	Uphill	X	Left Side
	Downhill	% Slope of ground	0.0%
	Right Side	On or Off ROW?	On: ; X: Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Heavily overloaded by freezing rain after snow storm.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Murphy/Bledsoe	9/20/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COLVILLE-REPUBLIC NO 1	38/1 - 38/2 (276 ft AOL of 38/1)
Date Outage Occurred	**Duration of Outage**
9/15/2012	Approx 3.5 hours

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Fir	18"	unknown

LOCATION OF TREE

Distance from Centerline: 58 feet

X	Uphill	X	Left Side		
	Downhill	% Slope of ground	500.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? X YES NO

(Please type comments below)

GENERAL REMARKS

(b)(6) Ferry County P.U.D. Engineer stated the following: On 15 SEP '12 at incident site, he observed tree in contact with conductor, at a point approximately 6 feet below the top of the tree.

(1) Tree bole had been removed from site to an unknown location, subsequent to 15 Sept '12, and prior to 20 Sep '12 investigation.

(2) Naturally occuring forest debris and soil had been piled on and adjacent to cut stump subsequent to tree felling activity, in an apparent attempt to obscure cut stump from view.

(3) Branches and limbs from felled tree had been placed at random points in the underbrush adjacent to the transmission line right-of-way.

(4) Hinge wood on stump indicates tree was fell approximately perpendicular (minus 10 degreees AOL) toward Colville - Republic conductor.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt (Olympia)	1/15/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ELBE TAP TO ALDER-LAGRANDE NO 1	3/11
Date Outage Occurred	**Duration of Outage**
1/11/2014	13 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	36"	125'

LOCATION OF TREE

Distance from Centerline	40'		
	Uphill		Left Side
	Downhill	% Slope of ground	6.0%
X	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks	X	Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES: | NO: X

(Please type comments below)

GENERAL REMARKS

The Douglas fir was aproximatly 125 feet tall and a codom stem failed aproximatly 25 feet above the ground. This tree was marked with orange paint, and the Olympia forman 1 said it was marked as a DT.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Andy Crosby (North Bend)	1/16/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
FAIRVIEW-ROGUE NO 1	57/2
Date Outage Occurred	**Duration of Outage**
1/16/2014	4 Hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm			Heavy Rain	
X	None to Morerate Wind			Snow	
	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	10"	70'

LOCATION OF TREE

Distance from Centerline: 70"

X	Uphill		X	Left Side	
	Downhill	% Slope of ground	0.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? X YES NO

(Please type comments below)

Yes, Logging operation, South Coast Lumber Company land owners, the Logging companies name is NGU- Never Give Up Logging Inc. (b)(6) is the owner. (b)(6) fell the tree in to line. Todd Stringer and Jim Brown reminded the loggers of the dangers working adjacent to our Transmission lines, they conducted a safety meeting briefing with them and let them know about the procautionary measure BPA can offer them to insure there safety. Contact information, NGU-Never Give Up Logging Inc. (b)(6) (b)(6) Home, (b)(6) office, (b)(6) cell. This trees was off right-of-way. It was caused by human error, by the logger.

GENERAL REMARKS

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Randy Borjesson (Eugene)	12/20/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	21/1
Date Outage Occurred	**Duration of Outage**
12/20/2012	604 Min

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Firs & Hemlocks	14" and 8-12"	105'

LOCATION OF TREE

Distance from Centerline: 67'

	Uphill		Left Side
	Downhill	% Slope of ground	5-10%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
X	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES: — NO: X

(Please type comments below)

GENERAL REMARKS

Corner of new logging fringe, roots sat in low drainage area, very saturated soil.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Carlos Mora (Alvey)	2/10/2014

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
LANE-WENDSON NO 2	18/2 +325' AHOL
Date Outage Occurred	**Duration of Outage**
2/8/2014	1326-2205

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*	X	Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	14"	113'

LOCATION OF TREE

Distance from Centerline: 66.5'

X	Uphill		Left Side
	Downhill	% Slope of ground	0.0%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Heavily over loaded by freezing rain after snow storm.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	6/1/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MARTIN CREEK-DRAIN NO1	-100' 9/1
Date Outage Occurred	**Duration of Outage**
2/3/2006	479 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	130'

LOCATION OF TREE

Distance from Centerline: 61'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	20.0%
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

New clearcut to the west of the failed trees caused high winds from the southwest to bring down several trees. Clearcut edge runs approximately north/south and these trees were on the corner. There were signs that there was dominoing from trees further back in the stand.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	2/28/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	4/2 AHOL 100 yds
Date Outage Occurred	**Duration of Outage**
2/25/2012	6:42 hrs.

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	13-16"	70'

LOCATION OF TREE

Distance from Centerline: 65-70'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	20.0%
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	X	Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES [ ] NO [X]

(Please type comments below)

GENERAL REMARKS

Tree shows sighns of advance laminated root rot, roots were broke near the base of the tree. I did not see any othere trees showing any sighns of Laminated root ro at this time.

	Change False to Blank " " and True to "X"	Needs to be
Field Name	**Data**	
InspName	Syverson	
InspDate	2/17/2006	
LineName	ST JOHNS-ST HELENS (PGE) NO 1	
OutLocation	4/2 +300'	
OutDate	2/17/2006	
Duration	3 hours	
Weather_at_time_of_Occurrence		
FairCalm		FALSE
Wind		FALSE
StrongWind	X	TRUE
Rain		FALSE
HeavyRain		FALSE
Snow		FALSE
Ice		FALSE
NotKnown		FALSE
Tree_Inspection		
Species	Doug fir	
DBH	17"	
Height	90'	
Location_of_Tree		
DistCL	56'	
Uphill		FALSE
RightSide	X	TRUE
Downhill	X	FALSE
LeftSide		FALSE
PctSlope	55%	Needs to be
On		FALSE
Off	X	TRUE
Pointed_in_what_Direction		
North		FALSE
Northeast		FALSE
Northwest		FALSE
South		FALSE
Southeast		TRUE
Southwest		FALSE
Filed88		FALSE
Filed89		FALSE

East		FALSE
West	X	FALSE
Signs_of_Defects		
DeadTop		FALSE
VisableConks		FALSE
RootDamage		FALSE
Snag		FALSE
BasalScars	X	FALSE
BurnScars		FALSE
Forks		FALSE
MultiStems		FALSE
LightScars		FALSE
FrostDamage		FALSE
SunScald		FALSE
Undermined		FALSE
Field104		FALSE
Field105		FALSE
Field106		FALSE
BearDamage		FALSE
BasalRen		FALSE
NoneObv		TRUE
General_Condition_of_Tree		
YellowFol		FALSE
ThinFol		FALSE
IntDecay		FALSE
ShallowRoots		FALSE
Distressed		FALSE
Healthy	X	TRUE
Reason_for_Fall_or_Break		
RootRot		FALSE
HeartRot	X	FALSE
DeadTree		FALSE
IceSnowLoad		FALSE
OldBreak		FALSE
Erosion		FALSE
Human		FALSE
LogFringe		FALSE
HighWind	X	TRUE
Field125		FALSE
Field126		FALSE
Field127		FALSE
Field128		FALSE

Field129		FALSE
Field130		FALSE
StandWater		FALSE
SaturSoils		TRUE
BrokeBranch		FALSE
BrokeStem	X	FALSE
LogActivities		FALSE
NoneObv2		FALSE
group9		
SoilType		
Yes		FALSE
No		TRUE
HumanComm		
GenComm		
	Wind blown tree contacted conductor position #3 relaying the line to lock o	
	KWS- Inspected tree on 2/22/096. Tree snapped off about 3' above the stun	

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ut. Wind was severe. 911 dispatch was called and put us right to the location. Columbia River PUD and PGE lost po
ıp. There appears to be an old mechanical wound (made about 20 years ago) that has caused significant interior rot. N

wer for a duration during this outage. Tree broke at stump.
Much of the heartwood was rotten.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	-200' 2/6
Date Outage Occurred	**Duration of Outage**
2/4/2006	588 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	12"	100'

LOCATION OF TREE

Distance from Centerline	55'				
X	Uphill		X	Left Side	
	Downhill	% Slope of ground	30.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

X	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis			None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp			Healthy

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot		X	Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe			High Wind
	Standing Water			Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree was dead standing. It was located on the edge of a root rot pocket.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kim Barber	12/19/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	42406
Date Outage Occurred	**Duration of Outage**
12/19/2005	157 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	12"	100'

LOCATION OF TREE

Distance from Centerline	70'		
	Uphill		Left Side
X	Downhill	% Slope of ground	20.0%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

North	Northeast	East
Southeast	X South	Southwest
West	Northwest	

VISIBLE SIGNS OF DEFECT

Dead Top	Visible Conks	Root Damage
Snag	Basal Scars	Burn Scars
Forks	Multiple Stems	Lighting Scars
Frost Damage	Sun Scald	Undermined Roots
Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

Yellowing Foliage	Thinning Foliage	Interior Decay
Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

Root Rot	Heart Rot	Dead/Dying Tree
X Ice or Snow Load	Old Break	Erosion/Cut Bank
Human Caused *(cut)*	Logging Fringe	High Wind
Standing Water	Saturated Soils	Broken Branch
X Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Not sure if there was wind at time of break but there was snow and ice loading. There wasn't any real obvious signs of disease or defects. The tree split up about 4 feet and then broke off and fell across line. KWS- The outage occurred at 4:30am after a heavy, wet snowfall turning to freezing rain. Snow/ice load was probably what took the tree down. There were no visible signs of any type of defect that would have led to the failure. The tree was growing very near another larger tree so probably most of the branches and weight were out towards the ROW.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/12/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TOLEDO-WENDSON NO 1	-370' 23/1
Date Outage Occurred	**Duration of Outage**
1/10/2006	576 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	30"	120'

LOCATION OF TREE

Distance from Centerline: 83'

	Uphill			Left Side			
	Downhill	% Slope of ground	10.0%				
X	Right Side	On or Off ROW?		On		X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe		X	High Wind
	Standing Water		X	Saturated Soils			Broken Branch
	Broken Stem		X	Logging Activities			None Obvious

Type of soil, if known: Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Winds at the time of failure were gusting to around 50 mph. Entire root plate lifted out of the ground. there was no sign of disease or defect. There were many trees around it that also went down or were leaning badly. These failed trees were near the edge of a fairly recent clearcut (private property to the south was probably logged a few years ago) which may have contributed to this tree's failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	3/17/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	-240' 7/6
Date Outage Occurred	**Duration of Outage**
3/8/2006	227 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16	110'

LOCATION OF TREE

Distance from Centerline	83'		
X	Uphill	X	Left Side
	Downhill	% Slope of ground	5.0%
	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Olympia Silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Root plate lifted up showing that the roots were matted about 1.5' below the surface. There was standing water in the hole created by the root plate. Even though this soil is well drained, it is subject to being very wet in the winter. Weather conditions as the time were very blustery - winds gusting to 30+mph and heavy rain. The tree was healthy and failed due to saturated soils and high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	10/7/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COLVILLE-REPUBLIC NO 1	+75' 26/6
Date Outage Occurred	**Duration of Outage**
8/8/2006	556 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine (2)	8"	80'

LOCATION OF TREE

Distance from Centerline: 70'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	20.0%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
X	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot	X	Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Two Lodgepole Pine snags fell onto the line during high winds. The trees broke off at ground level. The trees had been marked as DTs for removal, but negotiations for removal were still ongoing at the time of the outage.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	11/18/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	+175' 17/1
Date Outage Occurred	**Duration of Outage**
11/5/2005	0 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16"	90'

LOCATION OF TREE

Distance from Centerline	75'		
	Uphill		Left Side
X	Downhill	% Slope of ground	10.0%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had several dead rots due to Laminated Root Rot. There was a dead standing tree next to the failed tree that also showed the disease. Winds in the area were gusting to around 30 mph from the SW just prior to the failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Clay Grande	1/29/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	17/2 300' AOL on the left
Date Outage Occurred	**Duration of Outage**
1/29/2006	477 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	22"	140'

LOCATION OF TREE

Distance from Centerline	111'		
	Uphill	X	Left Side
X	Downhill	% Slope of ground	15.0%
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Wind was steady with strong gusts. Also it changed direction. It blew from the West and Southwest. KWS- Visited site on 6/1/06. Roots of the tree were restricted by the closeness of two other cedar trees. Roots were restricted from growth to the west and the north so poor root hold from winds coming from the west or southwest. High winds plus saturated soils finally brought the tree down.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	2/6/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	-350' 25/1
Date Outage Occurred	**Duration of Outage**
2/4/2006	527 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	42"	143'

LOCATION OF TREE

Distance from Centerline: 55'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	25.0%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot. Very few roots were not infected. Root plate lifted out of ground. Heavy clay soil caused the roots to mat within a few feet of the surface. Saturated soils and high winds (gusts up to 40mph) caused this tree to go over. There were no outwards sign of the disease when the tree went over.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kim Barber	12/18/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
KEELER-OREGON CITY NO 2	2/6
Date Outage Occurred	**Duration of Outage**
12/18/2005	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Deodora Cedar	26"	75'

LOCATION OF TREE

Distance from Centerline: 30'

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast				East
	Southeast		South				Southwest
X	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks				Root Damage
	Snag		Basal Scars				Burn Scars
X	Forks	X	Multiple Stems				Lighting Scars
	Frost Damage		Sun Scald				Undermined Roots
	Bear Damage		Basal Resinosis				None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage				Interior Decay
	Shallow Roots		Distressed Cone Corp			X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot				Dead/Dying Tree
	Ice or Snow Load		Old Break				Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe			X	High Wind
	Standing Water		Saturated Soils				Broken Branch
X	Broken Stem		Logging Activities				None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

ROW from C/L is 25'. Tree that caused outage approx 30' from C/L at structure 7/6. Tree had multiple tops and limbs. Outage was from side limb growing upward from stem of tree, 14 dbh and approx 50' in length. Winds were from the east with strong gusts. TLM topped tree to a safe height and spliced conductor that had burnt in two.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/4/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
KEELER-TILLAMOOK NO 1	+100' 45/11
Date Outage Occurred	**Duration of Outage**
12/28/2005	496 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Bitter Cherry	8-12"	100'

LOCATION OF TREE

Distance from Centerline: 64'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	60.0%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Wind gusts at Garibaldi were gusting to around 50mph at the time of the failure. It appears that perhaps a cherry tree hit another cherry tree that finally popped out into the ROW where the top snapped off on the wires when the majority of the tree hit the ground. Found one tree that did definitely fall over and it had very shallow root system.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Dennis Fisher	11/5/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
LIBBY-BONNERS FERRY NO 1	+300' 26/2
Date Outage Occurred	**Duration of Outage**
11/5/2005	407 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Larch	10'	

LOCATION OF TREE

Distance from Centerline	15' off ROW		
	Uphill		Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

GENERAL REMARKS

No one was at the site when the TLM crew arrived. The stump appeared that someone fell the tree into the line. There is a fringe of trees between the line and HWY 2 and maybe the faller had no idea the line was behind the fringe.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Syverson	1/30/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALLSTON-CLATSOP NO 1	27/4 BOL app. 70'
Date Outage Occurred	**Duration of Outage**
1/30/2006	8.5 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	12"	80'

LOCATION OF TREE

Distance from Centerline	64'				
X	Uphill		X	Left Side	
	Downhill	% Slope of ground		5.0%	
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe		X	High Wind
	Standing Water		X	Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Severe winter weather caused outage. KWS_ Inspected site on 2/1/06. Found that the tree had severe Laminated Root Rot. Most of the roots were extremely rotted. The tree is very near a roadway and in an area of past thinning which may increase the risk of failure of this tree from extreme south winds. Winds gusted at Astoria over 50mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	7/13/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BONNEVILLE-HOOD RIVER NO 1	-75' 6/9
Date Outage Occurred	**Duration of Outage**
7/9/2006	348 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	27"	140'

LOCATION OF TREE

Distance from Centerline	120'		
	Uphill	X	Left Side
X	Downhill	% Slope of ground	10.0%
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot	X	Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree broke off about 10' above the ground. The whole north side of the tree was rotten up at least 30 feet above the ground. The only holding wood was on the south side. The rot may have been caused by mechanical damage that occurred many years ago near the base of the tree.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kim Barber	11/7/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CARLTON-TILLAMOOK NO 1	+100' 19/8
Date Outage Occurred	**Duration of Outage**
11/5/2005	618 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	18"	105'

LOCATION OF TREE

Distance from Centerline: 58'

X	Uphill		X	Left Side	
	Downhill	% Slope of ground	15.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

Heavy Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Area would not be considered a fringe by TLM or helicopter patrol due to density of trees (edge of clearcut). KWS- Trees fell out of the corner of a forested area next to a new clearcut. The clearcut line runs perpendicular to the ROW. Several trees went down in that corner, with probably only one actually hitting the line. Roots were restricted by heavy clay to only about 3-4 feet.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	-275' 26/6
Date Outage Occurred	**Duration of Outage**
2/17/2006	272 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	85'

LOCATION OF TREE

Distance from Centerline	60'		
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot. The tree was showing some sign of the disease in thinning foliage.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	AOL 19/9
Date Outage Occurred	**Duration of Outage**
2/3/2006	326 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	18"	85'

LOCATION OF TREE

Distance from Centerline	60'		
X	Uphill	X	Left Side
	Downhill	% Slope of ground	15.0%
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had Armillaria root disease. High winds caused it to go over.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	+100 41/6
Date Outage Occurred	**Duration of Outage**
2/3/2006	1276 mins incl outage at substation

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	19"	85'

LOCATION OF TREE

Distance from Centerline	52'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground	25.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had Armillaria root disease. Most of the roots were rotten. The tree had been marked at a DT but was marked because it had multiple tops and not because it showed any signs of the disease. Tree failed at the base.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/24/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	+55' 45/11
Date Outage Occurred	**Duration of Outage**
2/3/2006	1276 mins incl tree outate at 41 mile

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	24"	85'

LOCATION OF TREE

Distance from Centerline: substation land

	Uphill		X	Left Side	
	Downhill	% Slope of ground	0.0%		
	Right Side	On or Off ROW?	X On		Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag	X	Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Beavers had chewed about 1/3 of the way through the tree on the windward side and also partially girdled the rest of the uneaten part. High winds took it down. Reason for failure was animal damage.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Swanson	2/4/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BIG EDDY-MCLOUGHLIN NO 1 & 2, BE-MCL 1 SECT	72/4 BOL 300'
Date Outage Occurred	**Duration of Outage**
2/4/2006	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	110'

LOCATION OF TREE

Distance from Centerline	72.5'				
	Uphill	X	Left Side		
	Downhill	% Slope of ground			
	Right Side	On or Off ROW?	X	On	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	Northeast		East
	Southeast	South		Southwest
	West	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
X	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree is off ROW but on BPA Ostrander Substation extra property south of the sub. Go to sub, tree will be on south side. We need to schedule this and other wide ROW areas for tree removal this summer. Don Swanson. KWS- Visited site on 3/17/06. Very high water table. Very poor soils which stay wet during the winter. Root plate lifted out and the roots were matted about 1.5' below the surface.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/23/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-SHELTON NO 1	+100' 8/4
Date Outage Occurred	**Duration of Outage**
2/4/2006	616 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	18"	120'

LOCATION OF TREE

Distance from Centerline	90'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground		20.0%	
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had Laminated Root Rot. Most of the roots were rotten due to the disease.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	6/20/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	-200' 17/3
Date Outage Occurred	**Duration of Outage**
3/9/2006	422 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	8"	70'

LOCATION OF TREE

Distance from Centerline	58'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	5.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree was very burnt so could not determine its condition prior to failure. BPA contractor had recently removed all the C trees in that area and this tree was not exposed. DT crew had seen a tree leaning out of the stand at the approx location. There was snow in the area. the snow load finally took the tree down. The tree did show some minor root rot and the roots were very restricted due to the closeness of other trees near it. It was marked with DT.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	+260' 19/7
Date Outage Occurred	**Duration of Outage**
2/27/2006	653 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	26'	95'

LOCATION OF TREE

Distance from Centerline: 70'

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

X	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had advanced Laminted Root Rot. Almost all the roots were rotten. There was a slight yellowing of last year's foliage, but no other visible signs of the disease.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	-80' 25/7
Date Outage Occurred	**Duration of Outage**
2/4/2006	695 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	22"	110'

LOCATION OF TREE

Distance from Centerline	105'		
X	Uphill	X	Left Side
	Downhill	% Slope of ground	16.0%
	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

It appeared that a dead standing Hemlock hit a live Hemlock and took that tree down along with 2 other Hemlocks that shared the same root plate. Many of the trees had Armillaria root disease. There was no visible sign of the disease in the tree before it failed. This was one of many trees that hit the line that same evening in the same windstorm.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	-290' 25/8
Date Outage Occurred	**Duration of Outage**
2/4/2006	695 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	18"	130'

LOCATION OF TREE

Distance from Centerline: 95'

X	Uphill		X	Left Side	
	Downhill	% Slope of ground	15.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast			East
	Southeast		South			Southwest
	West	X	Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

This was one of several trees that hit the line in this area and other AOL. The tree that the line had shallow roots matted about 2-3' below the ground due to the heavy clay below. This tree was hit by another tree further back in the stand that had root rot (Armillaria). There were a lot of trees that went down during the storm. Many show signs of Armillaria root disease.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	-80' 32/2
Date Outage Occurred	**Duration of Outage**
2/27/2006	653 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	18"	100'

LOCATION OF TREE

Distance from Centerline	53'		
X	Uphill		Left Side
	Downhill	% Slope of ground	45.0%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
X	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Armillaria root rot. Is a dead tree behind it and other trees that fell out of that stand were infected with root rot. Trees were located in a fringe between the access road and the ROW. This was part of a large outage on the line where trees in the 25 mile also hit the line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kim Barber/Kathy Stephenson	10/17/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SALEM-ALBANY NO 1	-170' 10/8
Date Outage Occurred	**Duration of Outage**
10/14/2005	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Cottonwood	25"	85'

LOCATION OF TREE

Distance from Centerline: 65'

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
X	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag	X	Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot	X	Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
X	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

KWS- Wind was gusting to around 30 mph at the time from the SW. Tree broke off approx 2.5' above ground. The tree was damaged a long time ago by beavers. The beavers did not totally girdle the tree, but left a few areas of bark intact. The tree was trying to regrow the bark around the tree, but rot was setting in at the same time. the only thing holding up the tree before it failed was the callous material from the old bark.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
J Carter	3/14/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COUGAR-THURSTON (EWEB) NO 1	2/3 AOL 700' +/-
Date Outage Occurred	**Duration of Outage**
3/13/2011	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	8"	120'

LOCATION OF TREE

Distance from Centerline

	Uphill		X	Left Side			
X	Downhill	% Slope of ground					
	Right Side	On or Off ROW?		On		X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North			Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe		X	High Wind
	Standing Water		X	Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

Class B soil

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

GENERAL REMARKS

We have a 100' ROW, tree was off ROW about 25-30'. Tree give away at the roots from saturated soils.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Thomas Sawyer	3/15/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	22/2 - 22/3
Date Outage Occurred	**Duration of Outage**
3/13/2011	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	8-16"	

LOCATION OF TREE

Distance from Centerline	70-90'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground			
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	East
X	Southeast		South	Southwest
	West		Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	Root Damage
	Snag		Basal Scars	Burn Scars
	Forks		Multiple Stems	Lighting Scars
	Frost Damage		Sun Scald	Undermined Roots
	Bear Damage		Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	Interior Decay
	Shallow Roots		Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot	Dead/Dying Tree
	Ice or Snow Load		Old Break	Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X High Wind
	Standing Water	X	Saturated Soils	Broken Branch
	Broken Stem		Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Five trees off ROW. Various heights and diameters.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
David Evans	3/16/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	150' AOL 24/7
Date Outage Occurred	**Duration of Outage**
3/13/2011	Unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	24	150'

LOCATION OF TREE

Distance from Centerline

X	Uphill			Left Side	
	Downhill	% Slope of ground	40.0%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Class B soil

If human caused, did you talk with anyone on site? If yes, what comments were made? YES X NO

(Please type comments below)

GENERAL REMARKS

100' ROW. Tree was about 150'. Top of tree pined all 3 to the ground. It looks like the tree was off ROW about 65-70'

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
J Carter	3/14/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	BOL 25/1
Date Outage Occurred	**Duration of Outage**
3/13/2011	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	18"	109.5'

LOCATION OF TREE

Distance from Centerline: 75'

	Uphill		X	Left Side	
X	Downhill	% Slope of ground			
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot	X	Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: Class B soil

If human caused, did you talk with anyone on site? If yes, what comments were made? YES [ ] NO [X]

(Please type comments below)

GENERAL REMARKS

75' from base of tree to C/L. Tree was 109.5', 82.5 of the top broke out and hit the #1 position. We have a 100' ROW, Tree was off ROW about 25' back.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/6/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
NASELLE TAP TO A-A 1, A-A 1 TO CATHLEMET SECT	+40' 9/1
Date Outage Occurred	**Duration of Outage**
11/5/2005	204 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	18"	95'

LOCATION OF TREE

Distance from Centerline	52'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground	40.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe			High Wind
	Standing Water			Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree had Armillaria root disease. About 50% of the roots were decayed and the tree was showing some heart rot due to the root disease. There is a 5 year old (+/-) clearcut to the south of this area which may have opened to the tree to windthrow. The tree resides in a riparian leave area so wasn't cut when the clearcut to the south was cut.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Donald Swanson	12/18/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
NORTH BONNEVILLE-TROUTDALE NO 1	22/1 BOL 200'
Date Outage Occurred	**Duration of Outage**
12/18/2005	265 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14"	110'

LOCATION OF TREE

Distance from Centerline	82'		
X	Uphill	X	Left Side
	Downhill	% Slope of ground	5.0%
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
X	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks	X	Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

Red clay

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES: — NO: X

(Please type comments below)

GENERAL REMARKS

Thick stand, small section removed from center leaving a fringe effect. Trees not wind firm exposed. Will look at cutting all in stand that can reach the line. Worst Scenario for east wind, bad area for the wind. KWS- I concur with Don's conclusions - recent logging activity to the east opened this tree to windthrow.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Andy Crosby	3/13/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
REEDSPORT-FAIRVIEW DOG LEG	8/5
Date Outage Occurred	**Duration of Outage**
3/13/2011	4 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Pine	10"	40-50'

LOCATION OF TREE

Distance from Centerline	53'		
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

sandy coastal soil

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

GENERAL REMARKS

Minor damage to conductor. TLM made repairs.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SHELTON-FAIRMOUNT NO 1	+200' 28/5
Date Outage Occurred	**Duration of Outage**
2/4/2006	1242 incl outage in 25 mile

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14"	100'

LOCATION OF TREE

Distance from Centerline: 86'

X	Uphill			Left Side	
	Downhill	% Slope of ground	5.0%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast				East
	Southeast		South				Southwest
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks				Root Damage
	Snag		Basal Scars				Burn Scars
	Forks		Multiple Stems				Lighting Scars
	Frost Damage		Sun Scald				Undermined Roots
	Bear Damage		Basal Resinosis			X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage				Interior Decay
	Shallow Roots		Distressed Cone Corp			X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot				Dead/Dying Tree
	Ice or Snow Load		Old Break				Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe			X	High Wind
	Standing Water	X	Saturated Soils				Broken Branch
	Broken Stem		Logging Activities				None Obvious

Type of soil, if known

Stony sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

The poor soil conditions help to blow this tree onto the wire. The soil is very rocky with sand and no clay thus having low nutrients and moisture. Roots are fairly small so there was little anchoring of the tree. Another tree just 30' AOL also fell out into the ROW and it had the same situation as the tree that hit the line. This soil is subject to windthrow because it is so shallow. This tree was one of three that hit the line that evening during the same windstorm. Peak wind gusts from the SW at 50 mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Don Swanson	11/17/2005

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALLSTON-ASTORIA NO 1	7/5 AHOL 200'
Date Outage Occurred	**Duration of Outage**
11/17/2005	8+ hours

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm				Heavy Rain
	None to Morerate Wind				Snow
	Strong Wind *(indicate direction)*				Ice
	None to Moderate Rain				Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Red Cedar	12"	65'

LOCATION OF TREE

Distance from Centerline	55'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	90.0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast			East	
	Southeast		South			Southwest	
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Clay

If human caused, did you talk with anyone on site? If yes, what comments were made? YES [ ] NO [X]

(Please type comments below)

GENERAL REMARKS

Arrived on site, saw the cedar tree on the line. Saw the cut stump and the handsaw. Noted the short tree limbs and the apparent bough collection for sale.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Mark Newbill	1/3/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SANTIAM-TOLEDO NO 1	+250' 49/4
Date Outage Occurred	**Duration of Outage**
12/14/2006	3023 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 2	30"+	130-150'

LOCATION OF TREE

Distance from Centerline

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Two very large Doug fir hit the wire in this area - one uprooted and the other snapped off about 20' above the ground. To the west of this stand of trees is a newer clearcut and the stand to the south have recently been thinned. This logging activity made this stand of trees vulnerable to the high winds (wind gusts to 50+ mph in Corvallis).

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	3/14/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SATSOP PARK-COSMOPOLIS NO 1	-410' 8/3
Date Outage Occurred	**Duration of Outage**
12/14/2006	Part of 1456 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	14"	90'

LOCATION OF TREE

Distance from Centerline: 60'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	30.0%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive root rot and was located in a recognizable root rot pocket. It appears that a tree to the NW of the failed tree snapped off and fell against the failed tree, pushing it over, in its weakened state, towards the conductor.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	3/14/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SATSOP PARK-COSMOPOLIS NO 1	-180' 10/2
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 1456 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock - 2	24"	110'

LOCATION OF TREE

Distance from Centerline	55'		
X	Uphill		Left Side
	Downhill	% Slope of ground	15.0%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
X	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Two large Hemlocks with interconnected roots went down at this location. They were located near the edge of a new clearcut. Both trees had extensive root rot.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/7/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SHELTON-FAIRMOUNT NO 1	-50' 18/3
Date Outage Occurred	**Duration of Outage**
12/14/2006	3418 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	36"	130'

LOCATION OF TREE

Distance from Centerline	60'		
	Uphill		Left Side
X	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

This tree was a designated "leave tree" in a recent clearcut. Now being fully exposed to winds, the high winds and saturated soils at the time of the failure caused this tree to fail. The tree destroyed tower 18/3 which had to be rebuilt thus the long outage. Winds at the time of the failure were gusting up to 40mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SHELTON-FAIRMOUNT NO 1	-400' 25/1
Date Outage Occurred	**Duration of Outage**
2/4/2006	1242 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	12"	85'

LOCATION OF TREE

Distance from Centerline	59'		
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
X	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree appears to have been cut by an axe. I could not tell if the tree had been felled into the line or cut enough so that a good wind from the west would take it into the line. Very suspicious circumstances. This appears to be have been one of three trees that hit the line that same evening. The other were just AOL by 25/2 and near 28/5.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SHELTON-FAIRMOUNT NO 1	-400' 25/2
Date Outage Occurred	**Duration of Outage**
2/4/2006	1242 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	22"	120'

LOCATION OF TREE

Distance from Centerline	62'		
	Uphill		Left Side
X	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Stony sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

The tree had extensive Laminated Root Rot. Many of the roots were rotten. The soil is very poor consisting of lots of rock and sand and no clay thus the nutrient and moisture level is low. This soil is subject to windthrow since it is fairly shallow. Many trees in the area appeared to have slow growth and yellowing and/or thinning foliage. This tree was one of three that hit the line during the same windstorm.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	+330' 15/8
Date Outage Occurred	**Duration of Outage**
11/26/2006	448 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm			Heavy Rain	
X	None to Morerate Wind		X	Snow	
	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	15"	100'

LOCATION OF TREE

Distance from Centerline	61'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	10%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree went over during heavy, wet snow storm. Wind blowing about 10mph from the south. Root plate lifted out - no sign of root rot.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	between 17/3 to 17/5
Date Outage Occurred	**Duration of Outage**
11/15/2006	997 min part of multi outages this line

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Alder	10-18'	100-120'

LOCATION OF TREE

Distance from Centerline: 55-150'

	Uphill	X	Left Side		
	Downhill	% Slope of ground			
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

There were two areas where multiple alder fell into the line. In both cases, larger alder from further back in the stand fell into the smaller alder closest to the line, pushing the smaller alder into the line. Large alder had shallow root systems due to soil conditions.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
PORT ANGELES-SAPPHO NO 1	-240' 25/1
Date Outage Occurred	**Duration of Outage**
11/15/2006	997 mins part of multi outages this line

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16"	70'

LOCATION OF TREE

Distance from Centerline	55'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	5%
	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree's roots were very restricted on the south and west sides due to growing in close proximity to another tree (which had been cut a number of years ago). A Hemlock nearby also went down (fell to the east and not towards the line) which then removed some of the DF's support. Root plate lifted out - no sign of root rot. Patch of alders to the south of this tree left this tree open to high winds once the leaves were off the alder. High winds and saturated soils led to this failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	11/29/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
RESTON-FAIRVIEW NO 2	AOL 23/4
Date Outage Occurred	**Duration of Outage**
11/12/2006	644 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	14"	95'

LOCATION OF TREE

Distance from Centerline: 72'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	15%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

At the time of the outage, winds were gusting upwards to 45 mph from the south. There was very recent clearcut to the south and west of the failed tree which opened this tree to high winds. Also there was an active creek within a few feet causing soils by the tree to be flooded at the time of the outage. The high winds and very wet soils caused the tree to fail.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Pat Gibbs	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SALEM-ALBANY NO 1	10/4-10/5
Date Outage Occurred	**Duration of Outage**
12/14/2006	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Alder	25"	60'

LOCATION OF TREE

Distance from Centerline	40'		
	Uphill		Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Due to high wind, the tree sheared off about 3' above groundline and fell across all 3 phases and fiber, but did not damage the line or fiber or poles.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SANTIAM-ALVEY NO 1 & 2, S-A 1 SECT	+170' 27/3
Date Outage Occurred	**Duration of Outage**
12/14/2006	314 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 3	16-20"	90-100'

LOCATION OF TREE

Distance from Centerline: 65'

X	Uphill		Left Side
	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	X Logging Activities	None Obvious

Type of soil, if known

Jory silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Neighbor to the south cut most of their trees on their property which exposed the failed trees to high winds from S & W. Trees had rather shallow roots. Soil is primarily clay beyond 6" in depth which restricted rooting depth.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SANTIAM-ALVEY NO 1 & 2, S-A 1 SECT	+260' 28/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	Part of 855 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16"	95'

LOCATION OF TREE

Distance from Centerline	71'		
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

Bellpine silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [ ] NO

(Please type comments below)

GENERAL REMARKS

There is an open area to the SW of the failed tree that was opened due to logging some years ago. Soils restrict rooting depth to about 14" below the surface where heavy clay starts. Tree was exposed to winds gusting to 50 mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/20/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MARTIN CREEK-DRAIN NO1	-150' 9/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	383 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	8"	75'

LOCATION OF TREE

Distance from Centerline: 51'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	10%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Large DF on the edge of a newer clearcut fell onto the small failed tree forcing it onto the conductor. The large DF fell parallel to the ROW, but pushed the smaller failed tree right towards the line. The larger DF was a marked DT that hadn't yet been removed.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Don Atkinson	12/13/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MURRAY-CUSTER NO 1	+250 3/7
Date Outage Occurred	**Duration of Outage**
11/27/2006	339 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	10"	110'

LOCATION OF TREE

Distance from Centerline: 110'

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Root plate lifted out. Very shallow roots. Heavy, wet snow load in area caused the tree and a smaller cedar whose roots were intertwined with the Hemlock to fall into the conductor.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Don Atkinson	12/13/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MURRAY-CUSTER NO 1	-400' 24/8
Date Outage Occurred	**Duration of Outage**
11/15/2006	1552 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple	Multiple	Multiple

LOCATION OF TREE

Distance from Centerline	80-100'		
	Uphill	X	Left Side
X	Downhill	% Slope of ground	15%
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
X	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Trees were in a very wet site with much standing water. Root plates had lifted up and showed very shallow root systems. a number of trees were growing on old logs which hindered their root development. Also, there was a clearcut just to the south that was done a number of years ago. At the time of the outage, winds were coming from the south at over 40mph. High winds, standing water, and very wet soils took the multiple trees down.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
NASELLE-TARLETT NO 1	-235' 1/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	477 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock - 3	12-24"	100-130'

LOCATION OF TREE

Distance from Centerline	75-100'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Trees were in backyard of residential property. There was only a strip of trees between the house and the ROW. Hemlocks had some thinning foliage. Trees were very shallow rooted and came over in very high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-GRAND COULEE NO 1	midspan 39/3-39/4
Date Outage Occurred	**Duration of Outage**
12/14/2006	276 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	100'+

LOCATION OF TREE

Distance from Centerline			
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree was in residential yard so did not take measurements and fully inspect the tree. It appeared that the tree was growing very near an old stump thus restricting its roots on the south side. High winds were just starting at the time of the outage.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-GRAND COULEE NO 1	-100' 46/5
Date Outage Occurred	**Duration of Outage**
11/10/2006	532 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	9"	80'

LOCATION OF TREE

Distance from Centerline: 71'

	Uphill		Left Side
X	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: Gravelly loam

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Water perches above substratum during wet months. Roots don't penetrate more than 40". This tree was located within a logging fringe running parallel to and directly adjacent to the powerline. The area to the south of this fringe was recently clearcut opening this fringe to high winds. These trees were left as "leave trees" for DNR regulations. Winds were blowing from the south at over 35mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-SOUTH TACOMA NO 1	-195' 18/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2882 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	18"	120'

LOCATION OF TREE

Distance from Centerline	92'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Gravelly sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot. About 50% of the roots were rotten. High winds took the tree over.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	2/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-SOUTH TACOMA NO 1	+350' 32/3
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2882 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	15"	120'

LOCATION OF TREE

Distance from Centerline	117'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — / Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast: X
	Southeast		South	Southwest
	West		Northwest	East

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	Root Damage
	Snag		Basal Scars	Burn Scars
	Forks		Multiple Stems	Lighting Scars
	Frost Damage		Sun Scald	Undermined Roots
	Bear Damage		Basal Resinosis: X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	Interior Decay
	Shallow Roots		Distressed Cone Corp: X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot	Dead/Dying Tree
	Ice or Snow Load		Old Break	Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe: X	High Wind
	Standing Water	X	Saturated Soils	Broken Branch
	Broken Stem		Logging Activities	None Obvious

Type of soil, if known

Gravelly soils

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Very gravelly/cobbled soils - poor productivity due to low nutrient availability. Root plate lifted up - roots down only 3 feet. Some evidence of root rot. Tree was on the edge of very visible root rot pocket. Due to the loss of trees within the root rot pocket, this tree was now exposed to the high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/20/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	-250' 9/7 to +170' 9/8
Date Outage Occurred	**Duration of Outage**
12/13/2006	503 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 6-7	16-24"	100-110'

LOCATION OF TREE

Distance from Centerline	52-85'		
	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
X	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Stony loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

There was a fire in the area about 4 years ago that killed and weakened many of the trees in this location. This fire killed many of the trees to the east opening the remaining, weakened trees to winds through that area. Trees have very shallow roots due to the large amount of stones in the soil and a high water table in the area. Root plates uplifted.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/20/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	-50' 21/5
Date Outage Occurred	**Duration of Outage**
12/14/2006	1129 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	26"	140'

LOCATION OF TREE

Distance from Centerline: 120'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	20%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Cumley silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Soils here have a rather high water table - 2-3' from surface during the wetter parts of the year. Therefore the roots of this tree were shallow. There was a dead standing tree to the south of the failed tree that may have fallen onto the failed tree during high winds forcing the failed tree to fall. No sign of root rot.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HOLCOMB-NASELLE NO 1	+300' 13/4
Date Outage Occurred	**Duration of Outage**
11/15/2006	1340 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	26"	100'

LOCATION OF TREE

Distance from Centerline: 56'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	25%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
X	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
X	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree broke off about 30' up bole due to an old fork. The larger fork failed. Winds in Astoria were gusting to 60+mph at the time of the failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HOLCOMB-NASELLE NO 1	+350' 13/5
Date Outage Occurred	**Duration of Outage**
12/14/2006	715 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlocks - 2	8"/20"	100'/130'

LOCATION OF TREE

Distance from Centerline: 63'

X	Uphill		X	Left Side	
	Downhill	% Slope of ground	15%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast			East
	Southeast		South			Southwest
X	West		Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Trees are in a decadent stand primarily of W Hemlock. Tree uprooted very near each other. Both trees had shallow roots which is typical of Hemlock.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	3/6/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
KEELER-TILLAMOOK NO 1	AOL 24/4
Date Outage Occurred	**Duration of Outage**
2/27/2007	2952 mins incl time to remove add trees

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16-30"	110-120'

LOCATION OF TREE

Distance from Centerline: 60-80'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Several trees went down in this area. At the time of the outage, winds were gusting from the south to 40 mph and the trees were laden with heavy, wet snow. The stand to the south had been either heavily thinned or shelterwood cut a few years back. This part of the line sits on a saddle so the winds came up from the valley and hit this saddle very hard causing the heavily snow-laden trees to fail. One tree did show advanced root rot, but most uprooted with healthy root systems. TLM cut additional trees that were leaning towards the line thus the longer length of the outage time. Primary cause of the outage was due to logging activities.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	1/4/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
KEELER-TILLAMOOK NO 1	+100' 29/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2713 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	24"	120'

LOCATION OF TREE

Distance from Centerline	75'		
	Uphill		Left Side
X	Downhill	% Slope of ground	20%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
X	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	1/4/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
KEELER-TILLAMOOK NO 1	+400' 32/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2713 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16"	80'

LOCATION OF TREE

Distance from Centerline	55'		
X	Uphill		Left Side
	Downhill	% Slope of ground	40%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
X	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

X	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot. It was located in a pocket of root rot evidenced by other either dead standing or yellowing trees. Tree was on a steep uphill location and fell towards the line. The rest of the trees in this area need to be removed.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	10/25/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
LIBBY-BONNERS FERRY NO 1	Libby-Troy section -50' 26/5
Date Outage Occurred	**Duration of Outage**
8/31/2007	part of 1295 min

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	17"	100'

LOCATION OF TREE

Distance from Centerline	70'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	10%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
	Southeast		South	X	Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag	X	Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load	X	Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

The tree broke off about 6' up at a site of an old break or wound. There was heart rot in the butt of the tree. the area experienced a very strong thunderstorm with high winds swirling.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	near 30/9
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 4196 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	130'

LOCATION OF TREE

Distance from Centerline: 95'

	Uphill		X	Left Side	
X	Downhill	% Slope of ground	10%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe		X	High Wind
	Standing Water		X	Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known: Clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Poorly drained, high seasonal water table. Poor soil was the major cause of the failure of the tree here. The soils are poorly drained and have a high seasonal water table causing shallow roots. Also the tree was growing next to an old stump which restricted its roots from the southwest. There was also some limited sign of root rot in the roots.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COUGAR-THURSTON (EWEB) NO 1	at 10/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2780 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	16"	95'

LOCATION OF TREE

Distance from Centerline: 55'

X	Uphill			Left Side	
	Downhill	% Slope of ground	35%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
	Southeast	X	South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	X	Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break	X	Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Failed tree was on the edge of an old road cut. The roots were damaged when the road was built. Recent thinning to the north of this failed tree may have also allowed more wind to hit this tree and thus contributed to its failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Ben Tilley	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COUGAR-THURSTON (EWEB) NO 1	+135' 16/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2780 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm			Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
X	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	15"	70'

LOCATION OF TREE

Distance from Centerline	58'						
	Uphill			Left Side			
X	Downhill	% Slope of ground	5%				
X	Right Side	On or Off ROW?		On	X	Off	

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast			East	
	Southeast	X	South			Southwest	
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

X	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Failed tree had extensive Laminated root rot. Almost all the roots were very infected with only 1 root holding up the tree before it failed. The tree and the stand around it were showing signs of the disease.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/21/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COUGAR-THURSTON (EWEB) NO 1	-100' 19/2
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2780 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	6"	90'

LOCATION OF TREE

Distance from Centerline	90'		
	Uphill		Left Side
X	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
X	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot	X	Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

The failed tree was a dead snag. The tree broke off about 2.5 feet above the ground.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/20/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
DEXTER TAP TO LP-A NO 1	-85' 1/5
Date Outage Occurred	**Duration of Outage**
12/14/2006	1005 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	50"	100'

LOCATION OF TREE

Distance from Centerline	65'		
	Uphill	X	Left Side
X	Downhill	% Slope of ground	25%
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East			
X	Southeast		South		Southwest			
	West		Northwest					

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage			
	Snag		Basal Scars		Burn Scars			
	Forks	X	Multiple Stems		Lighting Scars			
	Frost Damage		Sun Scald		Undermined Roots			
	Bear Damage		Basal Resinosis		None Obvious			

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay			
	Shallow Roots		Distressed Cone Corp	X	Healthy			

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree			
	Ice or Snow Load		Old Break		Erosion/Cut Bank			
	Human Caused *(cut)*		Logging Fringe	X	High Wind			
	Standing Water	X	Saturated Soils		Broken Branch			
	Broken Stem		Logging Activities		None Obvious			

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Root plate uplifted. No sign of root rot. The roots were matted about 2 feet below the surface indicating a high clay content at that level. There were two growing from the same stump, but this was not the cause of the failure. This tree was a marked DT.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Tony Gamma/Kim Barber	9/25/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
FOREST GROVE-MCMINNVILLE NO 1, FG-C 1 SECT	10/3-10/4
Date Outage Occurred	**Duration of Outage**
9/24/2007	2 hours

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	14"	90

LOCATION OF TREE

Distance from Centerline	75'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

North	Northeast	East
Southeast	South	Southwest
West	X Northwest	

VISIBLE SIGNS OF DEFECT

Dead Top	Visible Conks	Root Damage
Snag	Basal Scars	Burn Scars
Forks	Multiple Stems	Lighting Scars
Frost Damage	Sun Scald	Undermined Roots
Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

Yellowing Foliage	Thinning Foliage	Interior Decay
Shallow Roots	Distressed Cone Corp	Healthy

REASON FOR FALL OR BREAK

Root Rot	Heart Rot	Dead/Dying Tree
Ice or Snow Load	Old Break	Erosion/Cut Bank
X Human Caused *(cut)*	Logging Fringe	High Wind
Standing Water	Saturated Soils	Broken Branch
Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? X YES NO

(Please type comments below)

9/24 Gamma talked with Dewayne Hutchison who said he did cut tree.

GENERAL REMARKS

Gamma called out by MCC dispatch at 1830. Gamma arrived at site. Several fires were being extinguished along ROW and residence by fire dept. Tree had contacted Pos 1 and conductor parted and on the ground. Owner had installed TV dish under Pos 1 with coax cable run to residence. Coax run to house was cause of house fire. Stump shows tree was faced to fall directly at line. PO is Dewayne Hutchison.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/19/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
GRANDE RONDE-BOYER NO 1	+300' 1/3
Date Outage Occurred	**Duration of Outage**
11/12/2006	718 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	30"	120'

LOCATION OF TREE

Distance from Centerline	75'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground	30%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		X	Northeast			East
	Southeast			South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis		X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe		X	High Wind
X	Standing Water		X	Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

Wapato silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree uprooted. Tree was growing fairly close to the river in very saturated soils. The soils in that area have a very high seasonal water table during the wetter months of the year. The roots only went down into the ground about 1.5 feet due to this high water situation and water was standing in the hold left by the root plate. Winds at the time were blowing from the south, gusting to over 40 mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	12/19/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
GRANDE RONDE-BOYER NO 1	4/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	1804 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	40"	120'

LOCATION OF TREE

Distance from Centerline	49'				
	Uphill	X	Left Side		
X	Downhill	% Slope of ground	25%		
	Right Side	On or Off ROW?	X On		Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
X	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
X	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree had an old seam running up and down the tree probably due to frost damage. This old seam allowed interior rot to start. The tree broke about 20' up the bole. There may have been an old break at that location. The tree hit the tower and totally destroyed it.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	AOL & BOL 3/5
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2473 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 4	24-28"	125'

LOCATION OF TREE

Distance from Centerline	85-100'				
	Uphill	X	Left Side		
	Downhill	% Slope of ground			
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

Silty clay loam

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

There is an older (currently has a 10 yr old DF plantation on it) to the S & W of the impacted area making a triangular piece of taller trees. This impacted stand was thinned many years ago. Tree uprooted, with roots matted within the top 30". No sign of root rot. Soil type indicated that roots rarely penetrate beyond 22" in depth. Winds gusting to 40mph from the SSW at the time of the failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/6/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	+50' 9/9
Date Outage Occurred	**Duration of Outage**
11/13/2006	313 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	24"	105'

LOCATION OF TREE

Distance from Centerline: 90'

X	Uphill		Left Side
	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

X	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated root rot. Tree failed during high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	+170' 27/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2473 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	30"	115'

LOCATION OF TREE

Distance from Centerline: 82'

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:		Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Gravelly sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

This was one of the tallest trees in the stand before it failed. The tree is located in a rather poorly stocked stand of trees. Sine this tree was on the edge of the ROW, most of its limbs were mainly growing out toward the line. Tree uprooted - roots were matted about 2 1/2' below the surface. There was some sign of root rot, but that did not cause the tree to fail. Winds were gusting up to 40mph at the time of the failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	+130' 28/10
Date Outage Occurred	**Duration of Outage**
1/6/2007	224 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	15"	100'

LOCATION OF TREE

Distance from Centerline	80'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot - about 95% of the roots were infected. High winds were able to hit this tree due to the fact that the area to the west was cleared some time back for a residence leaving a fringe of trees near the powerlines.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/11/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	between 15/3-15/4
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 4196 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 2	20"/24"	130/150'

LOCATION OF TREE

Distance from Centerline	52/130'				
	Uphill	X	Left Side		
X	Downhill	% Slope of ground	10%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Loam w/clay

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Root plates uplifted. Heavy clay caused tree roots to mat about 2' from the surface. Trees were in an area near a small creek that drained a wetland on the ROW. This may have further saturated soils in that area. Trees in that area "jackstrawed" in every direction with a number of trees going down that didn't hit the conductor. Winds were blowing from the south over 40 mph at the time of the failure.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/11/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	+140' 17/1
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 4196 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14"	65'

LOCATION OF TREE

Distance from Centerline: 55'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	15%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East			
	Southeast		South		Southwest			
	West		Northwest					

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage			
	Snag		Basal Scars		Burn Scars			
	Forks		Multiple Stems		Lighting Scars			
	Frost Damage		Sun Scald		Undermined Roots			
	Bear Damage		Basal Resinosis	X	None Obvious			

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay			
	Shallow Roots		Distressed Cone Corp	X	Healthy			

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree			
	Ice or Snow Load		Old Break		Erosion/Cut Bank			
	Human Caused *(cut)*		Logging Fringe	X	High Wind			
	Standing Water	X	Saturated Soils		Broken Branch			
	Broken Stem	X	Logging Activities		None Obvious			

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Newer clearcut to the SW of the failed tree. This was a young tree that uprooted. No evidence of root rot. High winds hit this small triangle of younger trees. Soils were saturated at the time which contributed to the failure. Other trees within this triangled area came down which may have left this tree open to the high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	-160' 21/8
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 4196 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline

	Uphill	X	Left Side		
X	Downhill	% Slope of ground	10%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree showed some evidence of Laminated Root Rot. Lots of trees were down in this area that either had the disease or had already died of the disease. Big domino effect in the area with many trees falling into each other causing trees to fail.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/24/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	-205' 28/10
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2473 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	25"	130'

LOCATION OF TREE

Distance from Centerline	90'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree had Laminated Root Rot in about 60% of its roots. The failed tree was also growing on top of an old stump which impaired downward root growth in the center of the tree. There was also a dead standing tree next to the failed tree that also came down and may have contacted the line. DF nearby are showing signs of the root rot. High winds were able to hit the trees due to the fact that the area to the west of the failed tree had been mostly cleared some time back for a residence leaving a fringe of taller trees near the powerline.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson/Mark Newbill	1/4/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CARLTON-TILLAMOOK NO 1	10/9
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 8332 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14-24"	100-120'

LOCATION OF TREE

Distance from Centerline	55-90'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	Varied
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Extreme high winds in this area. Landowner reports that they can see Mt. Hebo from their back deck and winds were blowing from the west/southwest at over 100mph at Mt. Hebo. Many trees either uprooted or snapped off close to the base. Landowner has since logged the stand next to the line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/4/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CARLTON-TILLAMOOK NO 1	mid span between 11/6-11/7
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 8332 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
primarily Grand fir	14-24"	100-120'

LOCATION OF TREE

Distance from Centerline: 55-90'

	Uphill	X	Left Side
	Downhill	% Slope of ground	10%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Logging activities caused the trees to fail in this area. The stand on the west side of the line was thinned recently with a small clearcut about 300' from the ROW. This thinning and cleared area allowed more wind to come through the stand causing many trees to fall over. The failed tress were uprooted.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	12/12/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-MAYFIELD NO 1	-320' 10/8
Date Outage Occurred	**Duration of Outage**
11/13/2006	209 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir - 3	14-18"	100' +/-

LOCATION OF TREE

Distance from Centerline: 70-130'

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	Northeast	East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis: X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp: X	Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe: X	High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	X Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

One DF further away from the line fell into two DF closer to the line which forced them onto the wire. It appears that there may have been a new opening (since photomaps made in 1998) in the stand of trees to the south which opened these trees to southern winds. Winds were blowing from the SSW that day at around 30mph. Soils were also very saturated at the time.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/31/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ST HELENS-ALLSTON NO 1	-100' 15/6
Date Outage Occurred	**Duration of Outage**
12/14/2006	4170 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Red Cedar	31"	90'

LOCATION OF TREE

Distance from Centerline: 60"

	Uphill	X	Left Side
X	Downhill	% Slope of ground	20%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
X	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

X	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	Saturated Soils	Broken Branch
	Broken Stem	X Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree was growing next to another cedar (west of the failed tree) that was cut a number of years ago. Due to the close proximity of the cut tree, roots of the failed tree were restricted to the west. Also other trees nearby had been removed exposing the failed tree to higher winds. Many roots of the failed tree on the west and north side were rotten. There is a culvert drainage from the county road to the north that drains close to the failed tree which may have caused the roots to rot over time.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	-135' 2/7
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2546 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	24"	130'

LOCATION OF TREE

Distance from Centerline: 115'

X	Uphill	X	Left Side
	Downhill	% Slope of ground	25%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	X Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Numerous trees down in this area. It appeared that one tree hit and broke the cross-arm on 2/7. The cause of these failures was a recent clearcut approx 350' to the west of the stand of trees adjacent to the ROW, exposing a large area from 2/6 to AOL 2/7 to the high winds. There was no sign of root rot in the downed trees.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	+300' 6/4
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2546 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm			Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
X	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	18"	120'

LOCATION OF TREE

Distance from Centerline	60'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	50%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminated Root Rot. There was clearcut uphill and to the southwest that may have opened this tree up to higher winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	-105' 9/9
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2546 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20"	133'

LOCATION OF TREE

Distance from Centerline: 66'

	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree had extensive Laminate Root Rot. The tree is located in an area where good forestry is being practiced, i.e. thinning from below. The stand is very healthy looking and no trees in that area were showing any signs of the disease. The failed tree look very healthy.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	1/8/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	-150' to -50' 11/9
Date Outage Occurred	**Duration of Outage**
12/14/2006	part of 2546 min outage

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14-24"	115-125'

LOCATION OF TREE

Distance from Centerline: 60-66'

	Uphill	X	Left Side
X	Downhill	% Slope of ground	10%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
X	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Lots of standing water in this area at the time of inspection. There was no evidence, however, of root rot, but the trees do not look very healthy. Very shallow roots due to the seasonal high water. Other trees have failed in this stand in the past, but were too short or too far back in the stand to hit the wire. A full-safe backline is recommended in this area.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt/Ryan Brady	10/21/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-OLYMPIA NO 1	BOL 10/1 76'
Date Outage Occurred	**Duration of Outage**
10/20/2011	unknown

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm				Heavy Rain
	None to Morerate Wind				Snow
	Strong Wind *(indicate direction)*				Ice
	None to Moderate Rain				Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	15-20"	105'

LOCATION OF TREE

Distance from Centerline	83'				
X	Uphill	X	Left Side		
	Downhill	% Slope of ground	12%		
	Right Side	On or Off ROW?		On	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

GENERAL REMARKS

Easement width is 62.5' at this location. Wood thieves fell a 98' tall Big Leaf that was 110' from the C/L. The maple then fell into the 110' tall doug fir 83' from C/L which then failed at the ground and fell across all three conductors and hung up in that position. Outage occurred at 10:09pm (10/20/11) and TLM cleared the tree at approx 2:30am (10/21/11). It is believed the maple wood was being stolen for music wood.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Tom Girouard	11/26/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	425 AOL left of 23/1
Date Outage Occurred	**Duration of Outage**
11/23/2010	Line bump, relayed back in

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	0	100'

LOCATION OF TREE

Distance from Centerline: 57.5'

	Uphill	X	Left Side
	Downhill	% Slope of ground	40%
	Right Side	On or Off ROW?	On: ; X: Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: loam

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

White fungus noted at base of tree where it snapped. Dropped three other fir & hemlock that looked unhealthy next to it. All off ROW.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Ryan Brady	2/19/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HOLCOMB-NASELLE NO 1	14/4
Date Outage Occurred	**Duration of Outage**
2/19/2011	10 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain	X	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	28	120

LOCATION OF TREE

Distance from Centerline: 71

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast	X	South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

High winds. The top 60' of the tree snapped off and landed on all three conductors.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	10/4/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-GRAND COULEE NO 1	18/1 AOL 290'
Date Outage Occurred	**Duration of Outage**
9/3/2011	unknown

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm				Heavy Rain
	None to Morerate Wind				Snow
	Strong Wind *(indicate direction)*				Ice
X	None to Moderate Rain				Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	22"	91'

LOCATION OF TREE

Distance from Centerline	92"				
	Uphill		X		Left Side
	Downhill		% Slope of ground		
	Right Side		On or Off ROW?		On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North			Northeast			East	
	Southeast		X	South			Southwest	
	West			Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks			Root Damage	
X	Snag			Basal Scars			Burn Scars	
	Forks			Multiple Stems			Lighting Scars	
	Frost Damage			Sun Scald			Undermined Roots	
	Bear Damage			Basal Resinosis			None Obvious	

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay	
	Shallow Roots			Distressed Cone Corp			Healthy	

REASON FOR FALL OR BREAK

	Root Rot			Heart Rot		X	Dead/Dying Tree	
	Ice or Snow Load			Old Break			Erosion/Cut Bank	
X	Human Caused *(cut)*			Logging Fringe			High Wind	
	Standing Water			Saturated Soils			Broken Branch	
	Broken Stem			Logging Activities			None Obvious	

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [X] NO

(Please type comments below)

GENERAL REMARKS

The tree had a face cut in it pointing directly towards the conductors and fell in that direction intentionally. Easement edge is 62' from C/L, the tree was approx 28' outside of the easement. Some of the tools that were used to fall this tree had been left on the stump at the site and are shown in pictures. Corridor width 250'. Tree shows signs of being energized.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Grinolds/Jason Hunt	12/20/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ROCKY REACH-MAPLE VALLEY NO 1	119/1
Date Outage Occurred	**Duration of Outage**
12/18/2010	9 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	22"	90'

LOCATION OF TREE

Distance from Centerline	86'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	5%
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top	X	Visible Conks	X	Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage	X	Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Doug fir located 86 feet from C/L on the Rocky Reach-Maple Valley #1 at str 119/1. Tree had obvious signs of root rot because it broke off at ground level. Bark peeled off easily and showed signs of sun scald which the tree had tried to heal over. Winds were high on Saturday and reports of 50 mph were reported. A couple more trees in the area will be scheduled to remove in the area.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Kathy Stephenson	3/6/2007

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ST JOHNS-ST HELENS (PGE) NO 1	-100' 21/3
Date Outage Occurred	**Duration of Outage**
12/14/2006	4353 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	6"	85'

LOCATION OF TREE

Distance from Centerline	55'		
X	Uphill		Left Side
	Downhill	% Slope of ground	20%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	X	Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree was a tall whip that went over in the high winds.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Troy Dalrymple	11/3/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ST JOHNS-ST HELENS (PGE) NO 1	
Date Outage Occurred	**Duration of Outage**
11/3/2006	452 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline			
	Uphill		Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
X	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

Troy says: "Apparently this logger was clearing out cedars for the wood and boughs, saw the line, knew it was there but of course assumed wrong when he thought it wouldn't hit the line. We asked him which way he faced the tree and were not surprised when he told us he faced it right at the line! He was pretty nonchalant about the whole incident, kind of bragging about it a little."

GENERAL REMARKS

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Paul Sever/Bill Reynolds	11/17/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TIMBER TAP TO K-T NO 1	5/3
Date Outage Occurred	**Duration of Outage**
11/15/2010	18 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	60"	100'

LOCATION OF TREE

Distance from Centerline	60'		
	Uphill		Left Side
	Downhill	% Slope of ground	10%
	Right Side	On or Off ROW?	On / Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Healthy tree. Tree broke off about 4 feet off of the ground.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Swanson	2/1/2006

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALLSTON-ASTORIA NO 1	43/1 200ft AHOL
Date Outage Occurred	**Duration of Outage**
1/31/2006	14 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	25"	130'

LOCATION OF TREE

Distance from Centerline: 75"

	Uphill		X	Left Side	
X	Downhill	% Slope of ground	30%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known: Heavy clay

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [X] NO

(Please type comments below)

GENERAL REMARKS

Large group of off ROW trees fell in 40-50 mph wind storm hitting the outage tree, smashing it down and breaking the conductor on position 1. KWS- Visited site on 2/8/06. There is a new housing development going in to the south of this tree so many trees had been removed in that area. This tree was in a small cluster of trees, many of which went down in the storm. The tree had little rot growth to the north since it was growing very near another tree to the south.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jake Marti	1/3/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BONNEVILLE-HOOD RIVER NO 1	2/5
Date Outage Occurred	**Duration of Outage**
12/30/2011	8 hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	18	105

LOCATION OF TREE

Distance from Centerline: 85'

X	Uphill		Left Side
	Downhill	% Slope of ground	60%
X	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	Northeast	East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	X Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

X	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree appeared healthy with no visible defects.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Libby Johnson	11/29/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BONNEVILLE-HOOD RIVER NO 1	3/1-3/2
Date Outage Occurred	**Duration of Outage**
11/27/2010	4 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*	X	Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	24"	90'

LOCATION OF TREE

Distance from Centerline	82'				
X	Uphill		Left Side		
	Downhill	% Slope of ground	25%		
X	Right Side	On or Off ROW?	On	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
X	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

In early November, tree falling crew removed several "C" trees from the edge of the ROW exposing the tree to natural elements. Heavy rains, snow, ice and high winds have frequently battered the area from Multnomah Falls to Hood River. On Thanksgiving Day, the western Columbia Gorge experienced very cold east winds (30+mph). By late evening, a westerly front moved across the gorge bringing freezing rain, sleet and wind from the west. Wind, ice, saturated soils, and root rot caused the tree to blow over. The top 15 feet of the tree fell on position number 3 bringing the conductor down and seriously damaged strs 3/2 & 3/3. Tree was removed from the conductor on Monday 11/29/10. See pics.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	1/30/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HOLCOMB-NASELLE NO 1	13/5 AHOL 50 yards
Date Outage Occurred	**Duration of Outage**
1/18/2012	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*	X	Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	8"	96'

LOCATION OF TREE

Distance from Centerline	53'				
	Uphill		X	Left Side	
X	Downhill	% Slope of ground	4%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North	Northeast		East
	Southeast	South		Southwest
	West	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks	X	Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

This was a multi stem tree that forked approximately three feet above the ground. One stem failed approximately 40 to 50 feet up from the base and then fell into the conductor where it hung up until the conductor burnt in half according to the Chehalis line crew. The tree has stress cracks near the base, that shows signs of sever bending do to the amount of snow and Ice that had built up on it. The picture clearly shows the burn marks in the tree were it made contact with the energized lines.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Grinolds	11/18/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MURRAY-CUSTER NO 1	3/6
Date Outage Occurred	**Duration of Outage**
11/15/2010	8 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W Hemlock	24"	110'

LOCATION OF TREE

Distance from Centerline			
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast	X	East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
X	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Wetland area

If human caused, did you talk with anyone on site? If yes, what comments were made? YES: | X | NO

(Please type comments below)

GENERAL REMARKS

5 Western Hemlock hit the line on Monday, November 15th. Line was under contract in FY10 and all CTs in that span were cut. Also a DT cruise was done on that mile and all 30 DTs that were marked were also removed. Area is wet and Hemlock are weak. Only solution to avoid this would be to cut a safe backline in that area. This area has been a problem for TLM for many years and that is why I had a DT cruise done on that mile.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Alan Eubanks/Carlos Mora/Randy Borjessen	3/13/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALVEY-FAIRVIEW NO 1, A-R 1 SECT	16/7 +550' Right side AHOL
Date Outage Occurred	**Duration of Outage**
3/12/2012	11 hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	12"	65'

LOCATION OF TREE

Distance from Centerline	78'		
	Uphill		Left Side
	Downhill	% Slope of ground	5%
	Right Side	On or Off ROW?	On:	X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [ ] NO

(Please type comments below)

GENERAL REMARKS

See attachment (Attachments were lost)

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Andy Crosby	3/13/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
FAIRVIEW-BANDON NO 1	8/5 + 673' AHOL
Date Outage Occurred	**Duration of Outage**
3/13/2012	5 hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	12 in	75 ft

LOCATION OF TREE

Distance from Centerline: 56 in

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast
X	Southeast	South
	West	Northwest

	East		
	Southwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Heavy snow load along with shallow roots may have been a contributor. Tree was located 673' AHOL right side.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor/Carlos Mora	3/22/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	3/1 to 3/2 Left
Date Outage Occurred	**Duration of Outage**
3/21/2012	7 hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	14 in	80 ft

LOCATION OF TREE

Distance from Centerline: 54 ft

X	Uphill	X	Left Side
	Downhill	% Slope of ground	30%
	Right Side	On or Off ROW?	On: ; Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		East
	Southeast		Southwest
	West		

VISIBLE SIGNS OF DEFECT

	Dead Top		Root Damage
	Snag		Burn Scars
	Forks		Lighting Scars
	Frost Damage	X	Undermined Roots
	Bear Damage		None Obvious
	Basal Resinosis		

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Interior Decay
	Shallow Roots	X	Healthy
	Thinning Foliage		
	Distressed Cone Corp		

REASON FOR FALL OR BREAK

	Root Rot		Dead/Dying Tree
X	Ice or Snow Load	X	Erosion/Cut Bank
	Human Caused *(cut)*		High Wind
	Standing Water		Broken Branch
	Broken Stem		None Obvious
X	Saturated Soils		
	Logging Fringe		
	Logging Activities		
	Old Break		

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Caused by landslide.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Tom Girouard	12/30/2011

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	20/8 (240') AHOL left
Date Outage Occurred	**Duration of Outage**
12/28/2011	.1 second C to A phase fault

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
X	None to Morerate Wind			Snow	
	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	30"	120'

LOCATION OF TREE

Distance from Centerline	80'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	20%
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East		
	Southeast		South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Forest area, clay, loam

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Heavy rains all day with wind. 90' to the conductor. Root wad had evidence of white root rot. Recommend line be checked by DT crew to check for more root rot trees. Line crew noticed outage on 12/29/11 at 7 am. Operations called about the same time gave target of 17 mile. Line crew went out to find cause, debris on roadway caused slow going. Looked from 16/5-20/6 found nothing. Called Helo but unable to fly due to weather in the afternoon. Helo came down on 12/30/11 and flew line, line crew also went out. Found tree in report above.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Grinolds	3/19/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
OLYMPIA-GRAND COULEE NO 1	33/2
Date Outage Occurred	**Duration of Outage**
3/14/2012	7hrs 39min

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	13"	70'

LOCATION OF TREE

Distance from Centerline	89 feet/ 460ft AHOL		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
X	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	X	Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
X	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES: | NO: X

(Please type comments below)

Human caused in the fact that the logging fringe was left after recent harvest. This fringe was vulnerable to windthrow.

GENERAL REMARKS

Tree had a small root wad and shallow roots. Tree was located 89 feet from centerline on a 62.5 foot ROW Tree was in a fringe that was recently created by logging activites. Root damge from logging is probable and the cause of this outage. Will meet with Lincoln Tree Farm and discuss this problem and remove some remaining fringe trees.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Todd Stringer/Carlos Mora	3/22/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
RAINBOW VALLEY TAP TO L-W NO 1	3/9 +571 ft AHOL
Date Outage Occurred	**Duration of Outage**
3/21/2012	4 hrs, 23 nim

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	12 in	130 ft

LOCATION OF TREE

Distance from Centerline: 85 ft

	Uphill		Left Side
	Downhill	% Slope of ground	5%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald	X	Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
X	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Tree fell acros line, top of tree brock off when it hit the line leaving the top of tree resting on top of wires. N. Bend crew responded and got the top of tree off of line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Joe Barnett	3/21/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SANTIAM-ALVEY NO 1 & 2, S-A 2 SECT	34/4 AHOL
Date Outage Occurred	**Duration of Outage**
3/21/2012	14 hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	8"	101 ft

LOCATION OF TREE

Distance from Centerline: 92 ft

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: / Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
X	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
X	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known: Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? YES: / NO: X

(Please type comments below)

GENERAL REMARKS

A 100 ft Douglas fir whip, located 92 ft from centerline, uprooted from a combination of high saturated soils and heavy snow load. The tree fell east onto the C phase causing the lockout. Chemawa lineman responded and removed tree off of the line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Ed Tompkins	3/29/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BIG EDDY-OSTRANDER NO 1	55/4
Date Outage Occurred	**Duration of Outage**
3/29/2010	unknown

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain	
	None to Morerate Wind			Snow	
X	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	25 in	120'

LOCATION OF TREE

Distance from Centerline	105'						
X	Uphill			Left Side			
	Downhill	% Slope of ground	25%				
X	Right Side	On or Off ROW?		On		X	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North			Northeast			East
	Southeast		X	South			Southwest
	West			Northwest			

VISIBLE SIGNS OF DEFECT

	Dead Top			Visible Conks		X	Root Damage
	Snag			Basal Scars			Burn Scars
	Forks			Multiple Stems			Lighting Scars
	Frost Damage			Sun Scald			Undermined Roots
	Bear Damage			Basal Resinosis			None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage			Thinning Foliage			Interior Decay
	Shallow Roots			Distressed Cone Corp		X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot			Heart Rot			Dead/Dying Tree
	Ice or Snow Load			Old Break			Erosion/Cut Bank
	Human Caused *(cut)*			Logging Fringe			High Wind
	Standing Water			Saturated Soils			Broken Branch
	Broken Stem			Logging Activities			None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

The tree was decayed at the base from Phellinus weirri root rot

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	11/20/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
CHEHALIS-RAYMOND NO 1	36/2
Date Outage Occurred	**Duration of Outage**
11/19/2012	0.21875

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		X	Heavy Rain
	None to Morerate Wind			Snow
X	Strong Wind *(indicate direction)*			Ice
	None to Moderate Rain			Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	15"	81'

LOCATION OF TREE

Distance from Centerline: 74'

	Uphill		X	Left Side	
	Downhill	% Slope of ground	0%		
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag	X	Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Many trees failed in this area due to saturated soils and High winds. The tree that caused the outage failed at the roots, but did not show any signs of disease and a significant portion of the root system was uprooted indicating no sighs of root disease. This general area has been selectively thinned with in the last six years allowing for the winds to blow through the stand much easier. Many trees in the area show signs of leaning due to the winds but are not threatening the conductors. A complete patrol of the lines by helicopter may be advised in the coastal area due to the winds. All of the trees shown in the photo were from off right of way. The ROW width at this location is aproximatly 50' from center line putting this tree 24' off of the BPA ROW.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Murphy/Gilmore	10/18/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COLVILLE-REPUBLIC NO 1	33/4 98' BOL of structure
Date Outage Occurred	**Duration of Outage**
10/17/2012	42 minutes

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
lodgepole pine	14"	90'

LOCATION OF TREE

Distance from Centerline	83'		
	Uphill		Left Side
	Downhill	% Slope of ground	2% FLAT
X	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
	Southeast	X	South		Southwest		
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks	X	Root Damage		
X	Snag		Basal Scars		Burn Scars		
	Forks		Multiple Stems		Lighting Scars		
	Frost Damage		Sun Scald		Undermined Roots		
	Bear Damage		Basal Resinosis		None Obvious		

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage	X	Interior Decay		
	Shallow Roots		Distressed Cone Corp		Healthy		

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot	X	Dead/Dying Tree		
	Ice or Snow Load		Old Break		Erosion/Cut Bank		
	Human Caused *(cut)*		Logging Fringe	X	High Wind		
	Standing Water		Saturated Soils		Broken Branch		
	Broken Stem		Logging Activities		None Obvious		

Type of soil, if known

SANDY LOAM

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree was located approximately 35 feet "inside" the perimiter of the forest "edge." I RECOMMEND THE ENTIRE CIRCUIT BE CLEARED TO A FULL, SAFE BACKLINE TO REDUCE THE PROBABILITY OF SIMILAR TREE CAUSED OUTAGES.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	10/2/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
FAIRMOUNT-PORT ANGELES NO 2	5/1 BOL
Date Outage Occurred	**Duration of Outage**
10/1/2012	32 Minutes

WEATHER AT THE TIME OF OCCURANCE

X	Fair and Calm			Heavy Rain	
	None to Morerate Wind			Snow	
	Strong Wind *(indicate direction)*			Ice	
	None to Moderate Rain			Not Known	

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	34"	140'

LOCATION OF TREE

Distance from Centerline	155'				
	Uphill		X	Left Side	
	Downhill	% Slope of ground	30%		
	Right Side	On or Off ROW?		On	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East		
	Southeast		South		Southwest		
	West	X	Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

See additional comments on page 2

GENERAL REMARKS

10/3/2012 This tree was fell directly at the lines as were many other trees in the area using mechanical logging equipment. The tree is aproximatly 150 yards BOL from 5/1. The tree that caused the outage has been removed from the area and placed in a different location. The property is owned by the State of Washington and is managed by the DNR. The logging Co. responsible for the outage is Dahls Timber, 513 Marden Rd. Port Angelles Wa (360) 461-0444. Rick White from L&I contacted Lee Web and is going to conduct an investigation of the accedent (b)(6) . DNR district engineer that was on site was Jennie Cornell (b)(6)

Additional Comments:

FAMT-POAN-1 Tree outage.

10/4/2012 After talking to many of the people involved (TLM, Rick White L&I, Brandon Dachs Dachs Timber) with this outage, this is some of the facts that I have found out. The tree that caused the outage was moved from the location in which it fell because Dachs Timber was told that the area was safe and that they could proceed with their logging operation. So the operator that was working the feller buncher moved the tree out of the road and continued with the logging operation. Dachs was falling the trees towards the lines because they felt that they had significant clearance. They will be harvesting the upper part of this unit and will be falling the trees away from the conductors. They will also be contacting Lee Web before starting this project. Rick White with L&I interviewed the operator that fell the tree into the lines and this is the finding that he concluded that caused the power outage. The operator that was falling the trees was having to make double cuts on the trees because of there large size. This consisted of using the machine to cut partially thru the tree and then repositioning the tree and cutting thru the remainder of the trunk and falling the tree. According to the operator he made the first cut and was repositioning the machine to make the second cut and had a piece of wood stuck in the Feller head that he could not see. When he made the second cut to fall the tree that piece of wood prohibited him from being able to completely grasp the tree and was not able to direct its fall in a safe direction. I provided Rick White with the aerial photos that the helicopter patrol had take and he was very appreciative, because the pictures clearly show the trees where being fell towards the conductors. According to Rick several violations have been observed and he will be issuing infractions to Dachs logging Co. The L&I investigation will be available thru there public disclosure unit and I will be requesting the information when available. Wash. State Dept. of Labor & Industries, Public Disclosure unit P.O.Box 44632 Olympia, WA, 98504-4632. Re: Citation and Notice Number 316535756

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jason Hunt	3/21/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HOLCOMB-NASELLE NO 1	6/3 AHOL 250'
Date Outage Occurred	**Duration of Outage**
3/12/2012	712 min.

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
	Strong Wind *(indicate direction)*	X	Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	16"	70'

LOCATION OF TREE

Distance from Centerline

X	Uphill			Left Side	
	Downhill	% Slope of ground	20%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
X	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
X	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		High Wind
	Standing Water		Saturated Soils		Broken Branch
X	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? | | YES | X | NO

(Please type comments below)

GENERAL REMARKS

Much larger Hemlock from 100' back failed and fell into the smaller Hemlock and snaped the trunk into at about 3-4 feet above the ground. The Hemlock that caused the outage was aproximatly 66 feet from center line. There was many trees that failed in this area and I did not see any obvious sighns of laminated root.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Grinolds	5/3/2010

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
MONROE-CUSTER NO 1	20/2 mid span
Date Outage Occurred	**Duration of Outage**
5/3/2010	3 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir/Hemlock	16/30	50/140

LOCATION OF TREE

Distance from Centerline	78/110'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	15%
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	X Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	X Interior Decay
	Shallow Roots	Distressed Cone Corp	Healthy

REASON FOR FALL OR BREAK

X	Root Rot	X Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

Sandy loam

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES — NO

(Please type comments below)

GENERAL REMARKS

Hemlock with 30 inch diameter fell from 110 feet off centerline. It hit a doug fir that was 78 feet from centerline and caused it to hit phase #1 on the Monroe-Custer #1 at 20/2. Hemlock has major signs of root rot and heart rot. Winds on May 3rd were reported to be in the 50 mph range. ROW was reclaimed to 75 feet in 2009 and this could have exposed some of the remaining trees; however, I think the root rot and winds were the source for this tree outage.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor	12/20/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALVEY-FAIRVIEW NO 1, A-R 1 SECT	17/7 -100' BOL
Date Outage Occurred	**Duration of Outage**
12/20/2012	504 Min

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24"	120'

LOCATION OF TREE

Distance from Centerline	75'		
	Uphill		Left Side
	Downhill	% Slope of ground	10%
X	Right Side	On or Off ROW?	On / X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp		Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☒ NO

(Please type comments below)

GENERAL REMARKS

Tree was in south east corner of a "block" of trees left by loggers this Summer/Fall. Large area behind block completely logged off. Need to look at this closely.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Marti (The Dalles)	12/21/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
BONNEVILLE-HOOD RIVER NO 1	8/5
Date Outage Occurred	**Duration of Outage**
12/18/2012	13 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
X	None to Morerate Wind		Snow
	Strong Wind *(indicate direction)*		Ice
X	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	34"	110'

LOCATION OF TREE

Distance from Centerline: 102'

X	Uphill			Left Side	
	Downhill	% Slope of ground	5%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	X	Northeast	East
	Southeast		South	Southwest
	West		Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top		Root Damage
	Snag		Burn Scars
	Forks		Lighting Scars
	Frost Damage		Undermined Roots
	Bear Damage	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Interior Decay
	Shallow Roots	X	Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Dead/Dying Tree
	Ice or Snow Load		Erosion/Cut Bank
	Human Caused *(cut)*		High Wind
	Standing Water		Broken Branch
	Broken Stem		None Obvious

Type of soil, if known

Clay, rocky, Class B soil

If human caused, did you talk with anyone on site? If yes, what comments were made? ☐ YES ☐ NO

(Please type comments below)

GENERAL REMARKS

Tree was uprooted with signs of root rot in the root system. High winds came through the area 36 hours prior to the outages. The high winds may have damaged the rotted root system causing the tree to fail into the line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jabob Grinolds (Covington)	12/17/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
COVINGTON-CRESTON NO 1	5/5
Date Outage Occurred	**Duration of Outage**
12/17/2012	8 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
WRC	24"	110'

LOCATION OF TREE

Distance from Centerline	68.5'		
	Uphill	X	Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On:	Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	X East
	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree top was blown onto line during high wind event. Top of tree broke off roughly 30 ft up and caught on line. No signs of obvious structural flaws, rot or lean. Tree top hit line 450 ft AHOL of str 5/5 on the Covington-Creston #1. ROW is 62.5 ft from C/L and the tree was located at 68.5 ft from C/L. This corridor did have a DT contract on it about 4 yrs ago. Wind event at time had gusts up to 50 mph.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Randy Borjesson	12/20/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
HILLS CREEK-LOOKOUT POINT NO 1	21/1
Date Outage Occurred	**Duration of Outage**
12/20/2012	604 Min

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm	X	Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Firs & Hemlocks	14" and 8-12"	105'

LOCATION OF TREE

Distance from Centerline: 67'

	Uphill		Left Side
	Downhill	% Slope of ground	5-10%
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South	X	Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
X	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*	X	Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem	X	Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES: — NO: X

(Please type comments below)

GENERAL REMARKS

Corner of new logging fringe, roots sat in low drainage area, very saturated soil.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Jacob Marti (The Dalles)	12/19/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
NORTH BONNEVILLE-MIDWAY NO 1	25/3
Date Outage Occurred	**Duration of Outage**
12/17/2012	12 hours

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind	X	Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	25"	106'

LOCATION OF TREE

Distance from Centerline	122'				
	Uphill			Left Side	
	Downhill	% Slope of ground	5%		
X	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

X	North		Northeast				East
	Southeast		South				Southwest
	West		Northwest				

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks				Root Damage
	Snag		Basal Scars				Burn Scars
	Forks		Multiple Stems				Lighting Scars
	Frost Damage		Sun Scald				Undermined Roots
	Bear Damage		Basal Resinosis		X		None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage				Interior Decay
	Shallow Roots		Distressed Cone Corp		X		Healthy

REASON FOR FALL OR BREAK

X	Root Rot		Heart Rot				Dead/Dying Tree
X	Ice or Snow Load		Old Break				Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe		X		High Wind
	Standing Water		Saturated Soils				Broken Branch
	Broken Stem		Logging Activities				None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

Tree was uprooted with signs of root rot in the root system. The high winds and snow loading may have damaged the rotted root system causing the tree to fail into the line.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Alan Eubanks	12/17/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
SANTIAM-TOLEDO NO 1	52/2 +315' AHOL
Date Outage Occurred	**Duration of Outage**
12/16/2012	18 Hrs

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
White Fir	28"	115'

LOCATION OF TREE

Distance from Centerline: 87'

	Uphill	X	Left Side		
X	Downhill	% Slope of ground			
	Right Side	On or Off ROW?		On	X Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West	X	Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water	X	Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known: Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? [ ] YES [X] NO

(Please type comments below)

GENERAL REMARKS

Comments from Nick Wenzl : When dispatch called on Saturday night we decided to hold off on finding the cause of this outage until morning due to weather conditions and no customer was out. In the morning a crew was sent out, dispatch called and said they were starting to worry about loosing the other 2 lines and recommended the helicopter. Helo was called but weather kept them grounded. Tree was found in a good amount of time and taken care of.

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Todd Stringer (North Bend)	3/20/2013

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
TOLEDO-WENDSON NO 1	41/5
Date Outage Occurred	**Duration of Outage**
3/20/2013	Momentary

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	20"	120'

LOCATION OF TREE

Distance from Centerline

	Uphill		Left Side
	Downhill	% Slope of ground	
	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North		Northeast		East
	Southeast		South		Southwest
	West		Northwest		

VISIBLE SIGNS OF DEFECT

	Dead Top		Visible Conks		Root Damage
	Snag		Basal Scars		Burn Scars
	Forks		Multiple Stems		Lighting Scars
	Frost Damage		Sun Scald		Undermined Roots
	Bear Damage		Basal Resinosis	X	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage		Thinning Foliage		Interior Decay
	Shallow Roots		Distressed Cone Corp	X	Healthy

REASON FOR FALL OR BREAK

	Root Rot		Heart Rot		Dead/Dying Tree
	Ice or Snow Load		Old Break		Erosion/Cut Bank
	Human Caused *(cut)*		Logging Fringe	X	High Wind
	Standing Water		Saturated Soils		Broken Branch
	Broken Stem		Logging Activities		None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? YES NO

(Please type comments below)

GENERAL REMARKS

TREE-CAUSED OUTAGE REPORT

Name of Inspector	Date of Inspection
Bruce Bashor-TLM/Carlos Mora-NRS	12/17/2012

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
ALVEY-FAIRVIEW NO 1, A-R 1 SECT	64/1
Date Outage Occurred	**Duration of Outage**
12/17/2012	562 MINUTES

WEATHER AT THE TIME OF OCCURANCE

	Fair and Calm		Heavy Rain
	None to Morerate Wind		Snow
X	Strong Wind *(indicate direction)*		Ice
	None to Moderate Rain		Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24"	100'

LOCATION OF TREE

Distance from Centerline: 74.5'

	Uphill		Left Side
	Downhill	% Slope of ground	
X	Right Side	On or Off ROW?	On: — Off: X

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

	North	Northeast	East
X	Southeast	South	Southwest
	West	Northwest	

VISIBLE SIGNS OF DEFECT

	Dead Top	Visible Conks	Root Damage
	Snag	Basal Scars	Burn Scars
	Forks	Multiple Stems	Lighting Scars
	Frost Damage	Sun Scald	Undermined Roots
	Bear Damage	Basal Resinosis	X None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

	Yellowing Foliage	Thinning Foliage	Interior Decay
	Shallow Roots	Distressed Cone Corp	X Healthy

REASON FOR FALL OR BREAK

	Root Rot	Heart Rot	Dead/Dying Tree
	Ice or Snow Load	Old Break	Erosion/Cut Bank
	Human Caused *(cut)*	Logging Fringe	X High Wind
	Standing Water	X Saturated Soils	Broken Branch
	Broken Stem	Logging Activities	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? — YES: — NO: X

(Please type comments below)

GENERAL REMARKS

A large cedar tree (approximately 32" DBH) broke off 20' above ground and dominoed onto two Douglas fir trees. The cedar tree that broke off shoved the two Douglas fir trees towards the line, the two Douglas fir trees uprooted which resulted in one of them hitting positions #2 & #3 at 64/1 + 146' AHOL right.

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Bruce Bashor	1/16/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Alvey-Fairview	29/2
Date Outage Occurred	Duration of Outage
1/16/16	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Branch from a Douglas fir	NA	NA

LOCATION OF TREE

Distance from Centerline NA

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☒	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This outage happened at 1032 on Saturday January 16th. We had a severe high wind microburst go through at this time. It was caused by a branch, caught up on the jumper.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

SD
204
29 2 A





BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jake Marti	3/1/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
McNary-Ross 345KV	132/2
Date Outage Occurred	Duration of Outage
2/28/16	33 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* south west	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	11"	80'

LOCATION OF TREE

Distance from Centerline 91'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	50%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

The combination of high winds, saturated soil, and root rot is what caused this tree to fail. The tree was growing in an active root rot pock. There where multiple other trees in the stand that had failed because of root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4







These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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CLIVUO


CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
348 AM PST MON FEB 29 2016


.....................................

...THE VANCOUVER WA CLIMATE SUMMARY FOR FEBRUARY 28 2016...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1891 TO 2016

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
..
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         56    112 PM  73    1968  54      2        58
  MINIMUM         46    942 PM  20    1993  36     10        33
  AVERAGE         51                        45      6        46

PRECIPITATION (IN)
  YESTERDAY        0.07                      0.16  -0.09
0.00
  MONTH TO DATE    3.48                      4.03  -0.55
4.07
  SINCE OCT 1     34.43                     25.28   9.15
22.31
  SINCE JAN 1     10.58                      9.53   1.05
7.42
```

DEGREE DAYS
 HEATING
  YESTERDAY   14   19
  MONTH TO DATE 480   473
  SINCE JUL 1   2813   2652

 COOLING
  YESTERDAY   0   0
  MONTH TO DATE   0   0
  SINCE JAN 1   0   0
.....
..

WIND (MPH)
  HIGHEST WIND SPEED   25   HIGHEST WIND DIRECTION   W (250)
  HIGHEST GUST SPEED   36   HIGHEST GUST DIRECTION   W (250)
  AVERAGE WIND SPEED   7.8

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.6

WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   86   1200 AM
 LOWEST   59   200 PM
 AVERAGE   73

.....

SUNRISE AND SUNSET
FEBRUARY 29 2016......SUNRISE   650 AM PST   SUNSET   557 PM PST
MARCH 1 2016.........SUNRISE   648 AM PST   SUNSET   558 PM PST

- INDICATES NEGATIVE NUMBERS.

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R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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The U.S. Naval Observatory (USNO) computes astronomical data. Therefore, the NWS does not record, certify, or authenticate astronomical data. Computed times of sunrise, sunset, moonrise, moonset; and twilight, moon phases and other astronomical data are available from USNO's Astronomical Applications Department (http://www.usno.navy.mil). See http://www.usno.navy.mil/USNO/astronomical-applications/astronomical-information-center/litigation for information on using these data for legal purposes.

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Liz Keith	3/14/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Olympia-Grand Coulee 1	68/5
Date Outage Occurred	Duration of Outage
3/4/16-3/7/14	4 days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	20 in.	115 ft.

LOCATION OF TREE

Distance from Centerline 101 ft. (ROW easement width is 62.5)

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	45%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Rober loam, 30 to 65 percent slopes

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS

Significant precipitation and high winds preceeded outage event; soils in this area are saturated; DF had signs of root rot and a shallow root system; some loss of needles/poor foliage evidenced

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Nick Wenzl	3/13/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson no.1	370 ft Aol of 29/1
Date Outage Occurred	**Duration of Outage**
0858 on 3/13/16	4 days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* NE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	24"	120ft

LOCATION OF TREE

Distance from Centerline 95ft

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	steep%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Same location as several years ago, 5 or so more trees in this location that may cause a burden in upcoming years we took mulitple trees out last time, should be checked out. This is directly above the Hwy 126 tunnel so will need to make sure not to kick free any boulders or trees go sliding down the hillside into traffic. Will contact NRS to evaluate trees.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Carlos Mora	3/18/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson no.1	30/3
Date Outage Occurred	Duration of Outage
3/13/16	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* NE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	24"	120ft

LOCATION OF TREE

Distance from Centerline 65 ft.

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	steep%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Trees possibly fell the same time as the ones on 29/1 the same day. TLM crew still on site conducting repairs on 30/3.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jennifer Knoellinger	12/8/15

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Boyer-Tillamook No.1	4/2
Date Outage Occurred	**Duration of Outage**
12/7/2015	8 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	120'

LOCATION OF TREE

Distance from Centerline 85'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

At approximately 11:47 AM 12/7/2015, the TLM was notified of an outage on the Boyer-Tillamook No.1 and was sent out to investegate the report. Located at 4/2, the TLM found a 120', 24" DBH had fallen across all three phases of the line. Following protocol, TLM removed the tree from on top of the lines. After the vegetation was removed, the TLM requested power be restored at 8:16 PM. The following day (12/8/15), I headed out on site to examine the tree. The Douglas-fir was located 35' off ROW on the southern side of the easement (left side AHOL). The trees did not show any signs of disease or root rot and had large amounts of healthy green folliage. Given this, the most likely cause of failure was the high winds and saturated soils.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jennifer Knoellinger (Strombom)	4/18/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Jones-Canyon Santiam	128/2
Date Outage Occurred	**Duration of Outage**
4/14/2016	unknown

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-Fir	28"	125'

LOCATION OF TREE

Distance from Centerline 72.5

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	35%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Rocky

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

After further inspection of the tree, I determined that the outage was caused by a 125', 28" diameter Douglas-Fir tree located 10' off-ROW and approximately 400' AHOL from 128/2. The tree showed no signs of root or disease. Looking at weather reports for the day and time of the outage, the area was experiencing high rains and 30 MPH winds from the North. Given the rocky soils, steep terrain, and the weather conditions at the time, it is my judgement that the tree uprooted due to conditions outside of BPA's control.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
	6/1/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Monroe-Custer #1	52/3
Date Outage Occurred	**Duration of Outage**
5/31/16	6 minutes

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Big Leaf Maple	32	81

LOCATION OF TREE

Distance from Centerline 79

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☒	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Big leaf Maple with multiple stems with signs of heart and root rot fell into line. Parcel behind maple was recently logged which contributed to the outage.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Bryon Lorenz	8/22/2016

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Priest River Tap to Albeni Falls-Sand Creek No. 1	145AHOL 1/10
Date Outage Occurred	**Duration of Outage**
8/18/2016	255minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* ESE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
P.Pine	5	65

LOCATION OF TREE

Distance from Centerline 29

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	4%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☒	None Obvious

Type of soil, if known

sandy loam surface, gravelly sandy loam l sub soil

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt / Lee Webb	10/15/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angelles - Sappho	29/10
Date Outage Occurred	**Duration of Outage**
10/14/16	12hr

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	26"	100

LOCATION OF TREE

Distance from Centerline 75+

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree apeared to be growing out of a nurse stump and and was a domino effect as they fell towards the lines.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt	10/18/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAMY	36/4
Date Outage Occurred	Duration of Outage
10/14/16	8

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	19"	75'

LOCATION OF TREE

Distance from Centerline 67'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Doug Fir had laminated root rot and the tree failed at the root crown.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector: Vince Martinez
Date of Inspection: 11.5.2016

TRANSMISSION LINE DATA

Name (Operated as): Foster Tap to Green Peter – Lebanon #1
Location of Outage (Structures): Between 2/5 - 3/1
Date Outage Occurred: 11.5.2016
Duration of Outage: 1355 To 2128

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: Fir
Approximate DBH: 10"
Approximate Height: 90'

LOCATION OF TREE: AHOL Right
Distance from Centerline: 65'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐	On	☒ Off 15'+

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

OK	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: ?

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

N/A

GENERAL REMARKS

split trunk tree. had white rot inside wood where it broke at.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector: Vince Martinez

Date of Inspection: 12-14-16

TRANSMISSION LINE DATA

Name (Operated as): Dorena Tap to Alvey - ~~Drain~~ Martin Creek (PP&L)

Location of Outage (Structures): 4/5

Date Outage Occurred: 12-14-16

Duration of Outage: 8 Hr.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☒	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: Fir

Approximate DBH: 18"

Approximate Height: 95'

LOCATION OF TREE: Angle Right

Distance from Centerline: 60'

☒	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	30 %		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: N/A

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS

Heavy ~~Tree~~ Ice loading on tree. Caused it to break at ground line.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Chris Morse	2/13/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville PH1-Alcoa 1&2 No 2	8/1, 200ft AHOL
Date Outage Occurred	Duration of Outage
2/9	1515 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☒	Strong Wind *(Indicate direction)* SW, Gusts	☒	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	22 in	130

LOCATION OF TREE

Distance from Centerline 110

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	40%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Douglas Fir was located on steep ground and uprooted due to ice and snow load with heavy winds. The uprooted trunk exposed low lying bedrock which reduced the trees ability to properly anchor into the soil.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Walter "Bruce" Bashor	**02-21-2017**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap to the Alvey-Martin Creek #1 115kV Line	**Between structure 2/4 and 2/5**
Date Outage Occurred	Duration of Outage
02-20-2017	**From 0807 to 1846 – 639 minutes.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**28"**	**141'**

LOCATION OF TREE

Distance from Centerline **85'**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**3%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

There is an active logging operation here. The trees that hit the line came from a "block" of trees running parallel to the ROW edge on the South side of the ROW. I have met with the logger and we will be scheduling a "Hold Order" in the near future when the soil drys out enough so they can remove all of the rest of the remaining trees.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Nick Wenzl	02-20-17

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No.1 115kV line	260ft AOL left of 22/1
Date Outage Occurred	Duration of Outage
1000 on 02-20-17	4 hours for customers out, 9.5 for line section out.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South to North	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	20"	120ft

LOCATION OF TREE

Distance from Centerline 125ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree was knocked over by a large fir that uprooted during the wind storm. The larger tree was missing the whole top so it did not hit the line, it was also unyhealthy.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector: BASHOR

Date of Inspection: ~~4.6.2017~~ 4.7.2017

TRANSMISSION LINE DATA

Name *(Operated as)*: Hills Creek – Lookout Point

Location of Outage *(Structures)*: 17/2 +850' Ahol Right

Date Outage Occurred: 4.07.2017

Duration of Outage: 358 min., According to the DIR System.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SOUTH ?	☐	Ice
☒	~~None to~~ Moderate Rain	☐	Not Known

TREE INSPECTION

Species: DOUGLAS FIR

Approximate DBH: 10"

Approximate Height: 90'

LOCATION OF TREE: 850 A Hol of 17/2

Distance from Centerline: 70'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	5 %		
☒	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage ROOT ROT
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots ROOT ROT	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: UNKNOWN

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector: Ian Gironard
Date of Inspection: 4-7-17

TRANSMISSION LINE DATA

Name *(Operated as)*: Hills Creek Lookout Pt #1 115K
Location of Outage *(Structures)*: 26/2 Hillscreek LP
Date Outage Occurred: 4/7/17
Duration of Outage: Momentary

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: Doug Fir
Approximate DBH: 36"
Approximate Height: 120

LOCATION OF TREE

Distance from Centerline: 30'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	30 %		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: Alluvial

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This was a split top Fir tree that the top 30' broke out of and it had previously been sidelimbed

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Craig Fackrell	4/17/17

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Roundup - La Grande #1	13/7
Date Outage Occurred	**Duration of Outage**
4/7/17	<1 minute

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* S (59 mph gusts)	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24"	115'

LOCATION OF TREE

Distance from Centerline 98'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

The tree was left standing alone during a timber salvage operation by the Umatilla Tribe. The contractor removed only the fire-burned trees and left several unburned trees as a seed source. High winds and saturated soils caused the tree to fall into the lines.

Hotspot crew dispatched on 4/19/17 to remove remaining DTs left in the span.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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CDUS46 KPDT 080828
CLIPDT

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON OR
127 AM PDT SAT APR 8 2017


.....................................

...THE PENDLETON OR CLIMATE SUMMARY FOR APRIL 7 2017...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1890 TO 2017
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	66	1140 AM	87	1977	60	6	74
MINIMUM	36	1154 PM	24	1908	38	-2	39
AVERAGE	51				49	2	57
PRECIPITATION (IN)							
YESTERDAY	T		0.50	1907	0.04	-0.04	0.00
MONTH TO DATE	T				0.26	-0.26	0.08
SINCE OCT 1	11.79				8.12	3.67	8.34
SINCE JAN 1	6.27				4.12	2.15	4.07
SNOWFALL (IN)							
YESTERDAY	MM		T	2001	0.0	MM	0.0
MONTH TO DATE	0.0				0.0	0.0	0.0
SINCE JAN 1	25.9				7.7	18.2	T
SINCE JUL 1	44.4				15.2	29.2	4.1
SNOW DEPTH	0						
DEGREE DAYS							

31370293 BPA-2025-03068-F 0350

HEATING				
YESTERDAY	14	16	-2	8
MONTH TO DATE	105	113	-8	68
SINCE MAR 1	690	730	-40	631
SINCE JUL 1	4992	4629	363	4223
COOLING				
YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE MAR 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

HIGHEST WIND SPEED	47	HIGHEST WIND DIRECTION	S (200)
HIGHEST GUST SPEED	59	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	17.9		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 0.3

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)

HIGHEST	79	1000 PM
LOWEST	24	1200 PM
AVERAGE	52	

.....

THE PENDLETON OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	61	83	1925
MINIMUM TEMPERATURE (F)	38	21	1929

SUNRISE AND SUNSET

APRIL 8 2017.....	SUNRISE	622 AM PDT	SUNSET	733 PM PDT
APRIL 9 2017.....	SUNRISE	620 AM PDT	SUNSET	735 PM PDT

- INDICATES NEGATIVE NUMBERS.

31370293 BPA-2025-03068-F 0351

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R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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The U.S. Naval Observatory (USNO) computes astronomical data. Therefore, the NWS does not record, certify, or authenticate astronomical data. Computed times of sunrise, sunset, moonrise, moonset; and twilight, moon phases and other astronomical data are available from USNO's Astronomical Applications Department (http://www.usno.navy.mil). See http://www.usno.navy.mil/USNO/astronomical-applications/astronomical-information-center/litigation for information on using these data for legal purposes.

This standard addresses vegetation management along applicable overhead lines and does not apply to underground lines, submarine lines or to line sections inside an electric station boundary.

This standard focuses on transmission lines to prevent those vegetation related outages that could lead to Cascading. It is not intended to prevent customer outages due to tree contact with lower voltage distribution system lines. For example, localized customer service might be disrupted if vegetation were to make contact with a 69kV transmission line supplying power to a 12kV distribution station. However, this standard is not written to address such isolated situations which have little impact on the overall electric transmission system.

Since vegetation growth is constant and always present, unmanaged vegetation poses an increased outage risk, especially when numerous transmission lines are operating at or near their Rating. This can present a significant risk of consecutive line failures when lines are experiencing large sags thereby leading to Cascading. Once the first line fails the shift of the current to the other lines and/or the increasing system loads will lead to the second and subsequent line failures as contact to the vegetation under those lines occurs. Conversely, most other outage causes (such as trees falling into lines, lightning, animals, motor vehicles, etc.) are not an interrelated function of the shift of currents or the increasing system loading. These events are not any more likely to occur during heavy system loads than any other time. There is no cause-effect relationship which creates the probability of simultaneous occurrence of other such events. Therefore these types of events are highly unlikely to cause large-scale grid failures. Thus, this standard places the highest priority on the management of vegetation to prevent vegetation grow-ins.

B. Requirements and Measures

R1. Each applicable Transmission Owner and applicable Generator Owner shall manage vegetation to prevent encroachments into the Minimum Vegetation Clearance Distance (MVCD) of its applicable line(s) which are either an element of an IROL, or an element of a Major WECC Transfer Path; operating within their Rating and all Rated Electrical Operating Conditions of the types shown below[4] *[Violation Risk Factor: High] [Time Horizon: Real-time]*:

[4] This requirement does not apply to circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner subject to this reliability standard, including natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, wind shear, fresh gale, major storms as defined either by the applicable Transmission Owner or applicable Generator Owner or an applicable regulatory body, ice storms, and floods; human or animal activity such as logging, animal severing tree, vehicle contact with tree, or installation, removal, or digging of vegetation. Nothing in this footnote should be construed to limit the Transmission Owner's or applicable Generator Owner's right to exercise its full legal rights on the ROW.

31370293 BPA-2025-03068-F 0353



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CE
11/27/01

Name of Inspector	Date of Inspection
Jennifer Strombom	9/19/2017

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
Boyer-Tillamook No.1	20/5
Date Outage Occurred	**Duration of Outage**
9/19/2017	Still out currently, being repaired today.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind (Indicate direction)	☐	Ice
☐	None to Moderate Rain	☒	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	28"	147'

LOCATION OF TREE

Distance from Centerline 150'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	30%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? (Check one)

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused (cut)	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Clay-loam

If human caused, did you talk with anyone on site? If yes, what comments were made? (Please type comments below) ☐ YES ☒ NO

GENERAL REMARKS

On Tuesday, 9/19/17, (b) [redacted], owner of Yost Logging, called me at 7:44AM to inform me that a crew had just lost control of a tree and sent it into the BOYR-TILL line. I immediately instructed (b) [redacted] to connect with his crews and ensure that everyone was away from the tree and any downed conductor. I then connected with my TLM Foreman III Nathan Ward, who called substation operations. They did not see anything on the line and it was currently still hot, Nathan coordinated with Sub, Ops. And de-energized the line and placed a hold order for re-energization. The TLM crews then headed on site to inspect the line. I arrived later that afternoon around 1:30 PM the same day. I did not talk to the logging crew, but TLM had. They informed

Return or E-mail form to Kathy Stephenson – TR –TPP-4

(See next page for full remarks)

General Remarks for: Boyer-Tillamook No.1, 20/5, 9/19/2017

On Tuesday, 9/19/17, (b) (6), owner of Yost Logging, called me at 7:44AM to inform me that a crew had just lost control of a tree and sent it into the BOYR-TILL line. I immediately instructed (b) to connect with his crews and ensure that everyone was away from the tree and any downed conductor. I then connected with my TLM Foreman III Nathan Ward, who called substation operations. They did not see anything on the line and it was currently still hot. Nathan coordinated with Sub. Ops. And de-energized the line and placed a hold order for re-energization. The TLM crews then headed on site to inspect the line.
I arrived later that afternoon around 1:30 PM the same day. I did not talk to the logging crew, but TLM had. They informed me that the logger fell the tree in the exact direction of the line because he believed it would clear. At the actual site, I measured the 28" dbh Douglas-fir tree at 147' in height, approximately. The base of the tree was located 150' from centerline east. This tree obviously would not have cleared the area.

Photo 1



Photo 2



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jennifer Strombom	10/23/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Forest Grove-Tillamook No.1	22/1
Date Outage Occurred	**Duration of Outage**
10/21-10/22/2017	16 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	22"	120'

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	5%		
☒	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☒	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay-loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

On Saturday 10/21/17 @ 23:46, BPA received notification of a disruption to our FORG-TILL-1 115kV line. The following morning, BPA crews went on site to remove a 120' off-ROW Douglas-fir tree from the line. On Monday, 10/23/17, I went out and performed an inspection of the tree. Looking and the tree and weather conditions, I believe the primary cause was saturated soils from heavy rains and high winds. The tree overall was green, healthy, and showed little signed of disease or health issues. The tree was on a downward slope and had a shallow root system that affected the instability of the tree.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Bryon Lorenz	**24 October 2017**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bell-Boundary-3	**92/1**
Date Outage Occurred	Duration of Outage
21 October 2017	**25 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	**12**	**90**

LOCATION OF TREE

Distance from Centerline **51.5**

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	**4-6%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☒ NO

BPA Narrow corridor. This corridor is extremely narrow for a double circuit 230/115 kV line. This was originally just a single circuit 115kV wood pole line before being upgraded to its current state somewhere back in the early 80s, however the corridor width never upgraded along with it. At this particular location, the 230kV side of the structures face the uphill side which presents additional concerns based on the elevated location of the trees along with the narrow width.

GENERAL REMARKS

MCC Dispatch on October 21 when the line relayed to lockout. From the data acquired, it was a phase to phase fault (A to B) approx. 14 miles from Boundary Substation. TLM responded and found the center phase (B) parted and on the ground between structures 92/1 and 92/2. There was an off right of way green tree that had broken and made contact with the line, best guess at this point is that it broke on Oct 17. Ground conditions in this particular location are terrible, it is primarily rock which is more than likely why relaying did not see this particular fault prior to it going phase to phase. SPC will be conducting additional evaluations of this incident as well.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Chris Morse	11/9/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Allston-Driscoll-2	6/1
Date Outage Occurred	**Duration of Outage**
10/28/2017	4hrs

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	10	85ft

LOCATION OF TREE

Distance from Centerline 62ft

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	2%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

TLM responded to this outage on 10/28/17. The LO fell this tree into the transmission line on accident. No one was hurt and the LO said he will not fall anymore trees near our lines.

GENERAL REMARKS

Human caused outage. No other hazards exist at this site.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jennifer Strombom	11/14/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Forest Grove-Tillamook No.1	22/9
Date Outage Occurred	**Duration of Outage**
11/13/2017	3 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	14"	90'

LOCATION OF TREE

Distance from Centerline 70'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	2%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☒	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Clay-loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

At 10:17 AM, TLM received notification that the FORG-TILL-1 115kV line has received an outage due to a tree in the line. Dwayne, Substation Operator, was performing a switch and was able to identify the location of the tree at 22/9. TLM arrived on site and removed a 14", 90' tall Douglas-fir from the conductor. No damage was sustained. The tree did show signs of root rot, along with some trees in the surrounding area. Strong winds and rains also played a heavy factor in the tree falling.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	11/15/17

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
RAYM-COSM	14/4
Date Outage Occurred	Duration of Outage
11/14/17	8

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	12"	80'

LOCATION OF TREE

Distance from Centerline 60'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	45%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☒	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Lee Web	11/19/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
PA-SAPH	30/5
Date Outage Occurred	Duration of Outage
11/19/2017	16hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	14" and 17"	83' and 92'

LOCATION OF TREE

Distance from Centerline 69-to 72 feet

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Lee Web	01/21/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
PA-SAPH	32/8
Date Outage Occurred	Duration of Outage
01/21/18	16hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	17"	97'

LOCATION OF TREE

Distance from Centerline 87'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree failed at the trunk and did not up root with week or decayed root system.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Chris Morse	11/16/2017

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Allston-Clatsop 1	27/6
Date Outage Occurred	Duration of Outage
11/13	624min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* NE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	16	105

LOCATION OF TREE

Distance from Centerline 72

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Western Hemlock on corner of logging unit that has recently been exposed to a NE wind was uprooted from strong winds and saturated soils and fell into the transmission line.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jacob Grinolds	2/20/18

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
Snohomish-Murray #1	13/8
Date Outage Occurred	**Duration of Outage**
2/18/18	5.5 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	28	105

LOCATION OF TREE

Distance from Centerline 95

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Tree was located 95 from centerline on a 54.5 ft right of way. Western Hemlcok snapped off about 5 ft off ground from visable signs of heart rot and snow loading.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Bryon lorenz	01/09/2018

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Libby-Bonner Ferry-1	51/5
Date Outage Occurred	**Duration of Outage**
12/21/2017 (TLM)	6 Hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Pine	8in	85

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	3-5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☒	None Obvious

Type of soil, if known

Sandy Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

TLM removed tree

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Bryon lorenz	03/12/2018

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic-1	25/6
Date Outage Occurred	Duration of Outage
03/02/2018 (TLM)	5hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Pine	9in	95

LOCATION OF TREE

Distance from Centerline

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☒	None Obvious

Type of soil, if known

Sandy Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

At approximately 0414PT Line and Load restored . TLM removed tree

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	6/15/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No. 1	25/8+120 AHOL Right Side
Date Outage Occurred	Duration of Outage
6/15/18	2-3 Hrs

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	14"	89'

LOCATION OF TREE

Distance from Centerline 86'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

District Safety manager, TLM Foreman III, and NRS were all on site. The Guidelines for Logging Activities were shared with the logging crews and discussed.

GENERAL REMARKS

Logger conducted an Open-face cut on the tree in question. The tree was meant to fall parallel to the transmission line. After the Open-Face cut was made, the faller buncher came in to attempt to push the tree. According to the logging crew on site, as the tree began to fall, the remaining wood on the open-face cut broke off and the tree turned to fall towards the direction of the transmission line. No one was hurt or injured.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.










Link-Belt
290

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jake Marti	**6/26/18**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego	**39/8**
Date Outage Occurred	Duration of Outage
6/24/18	**218 minuets**

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Larch	**10.5"**	**75'**

LOCATION OF TREE

Distance from Centerline **49'**

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	**30%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

N/A

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Tree was cut by a fire wood cutter. The indavidual had left the area before TLM arived on site.

GENERAL REMARKS

A dead Western Larch 10' in diameter and approximately 75' tall that had been fell into the line. I took multiple measurements from the center of the stump to center conducer and the most consistent reading on my range finder was 49'. I believe that this tree was cut by an inexperienced fire wood cutter that miss jugged the distance to the conductor and nothing more. Wester Larch is the most sought after fire wood in this area. It being dead and close proximity to the road makes it easy fire wood.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Loren Cummings	**24 September 2018**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Boundary No 1	**AHOL 1/3**
Date Outage Occurred	Duration of Outage
23 September 2018	**25 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☒	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Tamarack	**13 inches**	**60 foot**

LOCATION OF TREE

Distance from Centerline **60 feet**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

Wind picked up and tree set back and fell on the line. The tree faller then pulled the tree off of the line and bucket it into fire wood.

GENERAL REMARKS

Tree was felled by private individual cutting firewood.

Incident non-reportable because:
115kV line not an element of an IROL or Major WECC Transfer Path, and was caused by human activity (cutting) beyond BPA control.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	11/25/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton Fairmont 1	57/8 AHOL
Date Outage Occurred	**Duration of Outage**
11/24/18	30hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	19	90

LOCATION OF TREE

Distance from Centerline 60

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	30%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
W. "Bruce" Bashor	12-14-2018

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek - Lookout Point #1 115 Kv line	24/4 + 500' AHOL Right
Date Outage Occurred	**Duration of Outage**
12-14-2018	310 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Cedar	24"	125'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	15%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

One top of a forked top Cedar tree broke out in high winds and landed on the Position #3 conductor.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1





BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1	3/2
Date Outage Occurred	Duration of Outage
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	10 and 9"	80'

LOCATION OF TREE

Distance from Centerline 63'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Laminated root rot is present in the area with several dead and declineing trees. High winds and laminated rot caused this tree failure.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1	2/2
Date Outage Occurred	Duration of Outage
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	17"	80-90'

LOCATION OF TREE

Distance from Centerline 73'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Laminated root rot is present in the area with several dead and declineing trees.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
FAMT-POAN-2	27/7
Date Outage Occurred	Duration of Outage
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	20"	110

LOCATION OF TREE

Distance from Centerline 80'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This outage was because of high winds and saturated soil, a very large portion of the root system came up when this tree failed..

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
FAMT-POAN-2	4/6
Date Outage Occurred	Duration of Outage
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
White pine	24"	110

LOCATION OF TREE

Distance from Centerline 90'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Laminated root rot is present in the area with several dead and declineing trees but that was not the cause of the failure of this tree.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jennifer Strombom	12-21-2018

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Boyer-Tillamook No.1 115 Kv line	29/3, 375' AHOL
Date Outage Occurred	**Duration of Outage**
12-20-2018	95 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* From West	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Sitka Spruce	22"	100

LOCATION OF TREE

Distance from Centerline 75'

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

On Thursday, 12/20/2018, a large off-ROW Sitka Spruce fell into the BOYR-TILL-1 115kV corridor in 29/3 during a storm event. TLM was called on site to repair conductor. During my inspection on Friday the 21st, I determined that while the tree appeared to be healthy and green, it has suffered from heart rot, which effected the structrual integrity of the tree.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1



Sitka Spruce, 375' AHOL 29/3 Left side, 75' off-ROW



Interior view, Heart Rot

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/21/18

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
STCR-STAC-1	2/5
Date Outage Occurred	**Duration of Outage**
12/20/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18"	90-100'

LOCATION OF TREE

Distance from Centerline 70

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree had significant laminated root rot and heart rot. The entire area has some very unhelathy trees growing along the BPA easment.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
W. "Bruce" Bashor	12-25-2018

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek - Lookout Point #1 115 Kv line	17/7
Date Outage Occurred	**Duration of Outage**
12-25-2018	343 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	22"	100

LOCATION OF TREE

Distance from Centerline 80

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	15%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

NA

GENERAL REMARKS

Tree appeared healthy over all but roots show signs of "White Root Rot".

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	1/7/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chehalis - Olympia No. 1	18/8
Date Outage Occurred	Duration of Outage
1/6/19	7 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* easterly	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	41"	150'

LOCATION OF TREE

Distance from Centerline 90 feet

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☒	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

The entire root system was up rooted on this tree, no sighns of desieas. This tree failed do to wild fire and recent logging activities.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	**1/7/19**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Satsop park - Cosmopolis No.1	**15/7**
Date Outage Occurred	Duration of Outage
1/6/19	**5 Hrs.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **easterly**	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**21"**	**100'**

LOCATION OF TREE

Distance from Centerline **55'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**40%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

several trees failed due to high winds and and root rot. This area is basicly a frindge created buy the hwy.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Chris Morse	1/7/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville-Alcoa 1&2	37/2
Date Outage Occurred	Duration of Outage
1/5/2019	2460 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	36	100

LOCATION OF TREE

Distance from Centerline 70

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Large Western Hemlock broke at approx. 8 ft from ground level. The exposed stump and stem had extentisve rot but the crown was healthy. The tree stump was measured at 70ft from center and our ROW easement is 25ft. The tree was 45ft outside the easement.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
W. "Bruce" Bashor	02-04-2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holden Creek #1 115Kv Line	950' AHOL Left of 18/8
Date Outage Occurred	Duration of Outage
02-04-2019	373 minutes

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	22"	140'

LOCATION OF TREE

Distance from Centerline 55'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Unknown

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

NA

GENERAL REMARKS

Tree uprooted and fell into line and across all three conductors due to being overloaded with wet heavy snow.
jcm5316-NRS verified and concur.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	2/15/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Driscole Nasselle	20/4 BOL
Date Outage Occurred	Duration of Outage
2/11/19	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☒	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	22"	120'

LOCATION OF TREE

Distance from Centerline 89'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This tree failed due to heavy snow conditions and root rot.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM/Carlos Mora	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Alvey-Fairview	17/5, 17/6, 24/1BOL, 58/1
Date Outage Occurred	Duration of Outage
2/25	Days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	12"-24"	60'-140'

LOCATION OF TREE

Distance from Centerline 65'-70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Caused by snow storm - 18" - 24" of heavy wet snow.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM/Carlos Mora	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holden Creek	See General Remarks section for all locations
Date Outage Occurred	Duration of Outage
2/25	Several days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	12"-28"	60'-140'

LOCATION OF TREE

Distance from Centerline 55'-70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

1/6, 2/1, 2/5, 3/5, 4/1, 4/3, 4/4, 15/5, 15/6, 15/7, 16/4, 16/5, 16/10, 18/1, 18/4, 19/1, 19/4, 20/3.
Caused by snow storm - 18" - 24" of heavy wet snow.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM/Carlos Mora	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap	3/1, 3/2, 4/5, 5/2
Date Outage Occurred	Duration of Outage
2/25	Days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	12"-24"	60'-140'

LOCATION OF TREE

Distance from Centerline 55'-60'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Caused by snow storm - 18" - 24" of heavy wet snow.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM/Carlos Mora	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point	See General Remarks section for all locations
Date Outage Occurred	Duration of Outage
2/25	Several days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	12"-28"	60'-140'

LOCATION OF TREE

Distance from Centerline 55'-70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

2/1, 2/8, 3/2, 3/5, 3/8, 3/9, 4/2, 12/3, 12/7, 12/8, 13/4, 14/1, 14/2, 14/4, 14/7, 14/8, 17/1, 17/3, 17/5, 17/6, 20/2, 20/6, 20/8, 21/2, 21/3, 21/4, 21/5, 21/6, 21/8, 21/9, 23/3, 23/7, 24/1, 24/4, 24/8.
Caused by snow storm - 18" - 24" of heavy wet snow.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM/Carlos Mora	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Martin Creek-Drain	3/3, 4 mile, 7/8, 10/6
Date Outage Occurred	**Duration of Outage**
2/25	Several days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	12"-28"	60'-140'

LOCATION OF TREE

Distance from Centerline 65'-70'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Caused by snow storm - 18" - 24" of heavy wet snow.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
TLM	2/26/19 - 3/1/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey No. 1&2	36/6
Date Outage Occurred	Duration of Outage
2/25	Days

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifers	18"-24"	60'-140'

LOCATION OF TREE

Distance from Centerline 70'-75'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5-16%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Caused by snow storm - 18" - 24" of heavy wet snow.

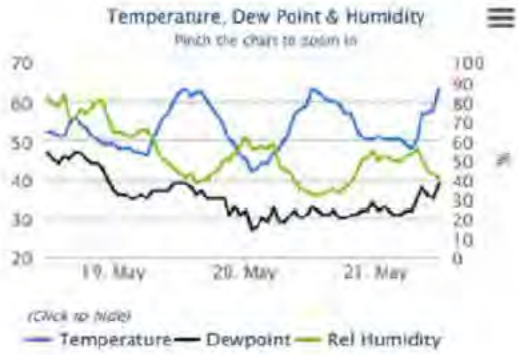
Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Weather Conditions For:
HOODOO, ID. HOOI1 (RAWS)
Elev: 2270 ft.; Lat/Lon: 48.053306/-116.793350
Current Time: May 21 11:49 am PDT
Get Yearly Precip Total (non QA/QC'd data)
Get Water Year Precip Total (non QA/QC'd data)

swipe





Date (PDT)	Temp (F)	Dew Point (F)	Relative Humidity (%)	Wind Direction	Wind Speed (MPH)	Fuel Temp (F)	Fuel Moisture (%)	Solar Radiation (W/m²)	Solar Pct of psbl	Precip Accumulated (inches)	1 Hour Precip (inches)	3 Hour Precip (inches)	6 Hour Precip (inches)	24 Hour Precip (inches)
21 May 11:08 am	63	39	41	N	6G13	75	10	510	49%	8.36				
21 May 10:08 am	58	35	42	NE	6G12	65	9	434	48%	8.36				
21 May 9:08 am	57	36	45	NNE	5G15	63	10	330	46%	8.36				
21 May 8:08 am	57	38	50	NNW	6G14	60	11	273	54%	8.36				
21 May 7:08 am	50	35	56	N	5G10	48	11	60	21%	8.36				
21 May 6:08 am	48	32	53	NE	2G10	44	10	9	12%	8.36				
21 May 5:08 am	49	32	52	WNW	4G11	45	10	1	--	8.36				
21 May 4:08 am	50	31	49	NNW	4G12	48	10	0	--	8.36				
21 May 3:08 am	50	31	49	NNW	4G12	48	10	0	--	8.36				
21 May 2:08 am	50	32	51	WNW	5G11	48	10	0	--	8.36				
21 May 1:08 am	50	33	52	NW	3G9	47	9	0	--	8.36				
21 May 12:08 am	51	32	49	WNW	3G11	48	9	0	--	8.36				
20 May 11:08 pm	50	34	55	NW	4G9	48	8	0	--	8.36				
20 May 10:08 pm	50	32	51	NW	3G9	47	8	0	--	8.36				
20 May 9:08 pm	51	32	49	WNW	3G9	48	7	2	--	8.36				
20 May 8:08 pm	53	31	43	N	3G12	52	7	44	26%	8.36				
20 May 7:08 pm	57	31	38	NE	6G12	58	7	164	42%	8.36				

20 May 6:08 pm	57	30	36	NE	6G14	61	7	261	43%	8.36		
20 May 5:08 pm	59	30	33	NNE	6G15	66	7	416	52%	8.36		
20 May 4:08 pm	60	32	35	NE	6G13	66	7	258	27%	8.36		
20 May 3:08 pm	60	31	34	NNE	5G13	65	7	279	26%	8.36		
20 May 2:08 pm	61	31	32	NNE	5G12	69	7	458	39%	8.36		
20 May 1:08 pm	62	32	32	NNE	7G16	75	7	717	61%	8.36		
20 May 12:08 pm	63	33	32	NNE	7G14	80	8	714	63%	8.36		
20 May 11:08 am	59	31	34	NNE	7G16	69	9	486	47%	8.36		
20 May 10:08 am	58	30	35	N	6G13	67	9	509	57%	8.36		
20 May 9:08 am	57	32	39	N	5G11	63	10	359	50%	8.36		
20 May 8:08 am	53	31	43	NNW	5G10	55	11	175	35%	8.36		
20 May 7:08 am	50	29	45	NNW	5G11	50	12	76	26%	8.36		
20 May 6:08 am	48	29	47	N	5G15	46	13	17	24%	8.36		
20 May 5:08 am	47	33	58	NNE	5G10	42	16	1	--	8.36		
20 May 4:08 am	44	29	56	ENE	3G9	38	14	0	--	8.36		
20 May 3:08 am	44	30	57	NNE	4G9	36	14	0	--	8.36		
20 May 2:08 am	43	28	56	NNE	3G7	35	12	0	--	8.36		
20 May 1:08 am	42	27	56	ENE	2G9	34	11	0	--	8.36		
20 May 12:08 am	45	32	61	N	3G7	36	10	0	--	8.36		
19 May 11:08 pm	46	31	57	NNE	3G8	38	9	0	--	8.36		
19 May 10:08 pm	49	33	54	NNE	5G12	43	9	0	--	8.36		
19 May 9:08 pm	50	31	49	NE	3G10	45	8	3	--	8.36		
19 May 8:08 pm	53	35	50	NNE	4G15	51	8	49	29%	8.36		
19 May 7:08 pm	56	35	45	N	5G15	56	8	118	31%	8.36		
19 May 6:08 pm	58	35	43	NNE	6G18	61	7	191	32%	8.36		
19 May 5:08 pm	60	35	40	NNE	9G17	64	7	251	31%	8.36		
19 May 4:08 pm	62	37	40	NE	6G16	70	7	570	59%	8.36		
19 May 3:08 pm	62	36	38	NNE	8G19	73	7	672	62%	8.36		
19 May 2:08 pm	61	38	43	NNE	8G17	71	8	463	40%	8.36		
19 May 1:08 pm	63	39	41	NNE	9G19	80	7	766	65%	8.36		
19 May 12:08 pm	62	39	43	NNE	8G19	79	8	879	78%	8.36		
19 May 11:08 am	60	39	46	NE	7G16	73	10	796	77%	8.36		
19 May 10:08 am	57	37	48	NNE	7G15	66	11	650	73%	8.36		
19 May 9:08 am	56	37	50	NNE	6G17	61	12	513	72%	8.36		
19 May 8:08 am	53	37	54	N	7G13	53	12	344	69%	8.36		0.01
19 May 7:08 am	50	37	61	N	6G18	49	14	126	44%	8.36		0.02
19 May 6:08 am	46	35	65	N	6G16	44	15	17	25%	8.36		0.03
19 May 5:08 am	47	36	65	N	7G17	43	15	0	--	8.36		0.06
19 May 4:08 am	47	35	63	NNE	5G12	44	14	0	--	8.36		0.10
19 May 3:08 am	48	35	61	NNW	6G13	46	14	0	--	8.36		0.12
19 May 2:08 am	48	36	63	NNW	5G12	46	15	0	--	8.36		0.12
19 May 1:08 am	48	36	64	N	4G15	46	15	0	--	8.36		0.12
19 May 12:08 am	49	37	64	N	5G11	47	16	0	--	8.36		0.13
18 May 11:08 pm	49	40	71	N	5G14	46	18	0	--	8.36		0.14
18 May 10:08 pm	49	43	80	NNW	4G9	46	18	0	--	8.36		0.16
18 May 9:08 pm	50	44	80	N	3G6	48	17	1	--	8.36		0.19
18 May 8:08 pm	51	44	77	N	3G11	50	16	16	10%	8.36		0.22
18 May 7:08 pm	53	45	74	NNE	2G9	53	15	81	21%	8.36		0.24
18 May 6:08 pm	54	47	76	NE	2G6	57	15	137	23%	8.36		0.28
18 May 5:08 pm	56	47	71	NNW	2G6	63	16	323	41%	8.36		0.32
18 May 4:08 pm	54	45	72	ENE	2G5	59	23	360	37%	8.36		0.34
18 May 3:08 pm	51	46	83	NE	1	52	27	119	11%	8.36		0.38
18 May 2:08 pm	51	44	78	ENE	2G4	51	27	127	11%	8.36	0.01	0.40
18 May 1:08 pm	52	45	78	E	2G5	54	27	229	20%	8.36	0.02	0.41
18 May 12:08 pm	52	47	82	ESE	3G7	56	26	343	30%	8.36	0.03	0.42

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(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Robert Zeller	05/20/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Priest River Tap -Albeni Falls Sand Creek-1	2/12
Date Outage Occurred	**Duration of Outage**
05/20/2019	98 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* NW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Ponderosa Pine	12"	65 ft

LOCATION OF TREE

Distance from Centerline 40

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS

High wind gusts were reported in the area. Wind report is attached.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Cozette Fink	7/25/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Libby-Bonners Ferry-1	46/7 288 ft AHOL
Date Outage Occurred	Duration of Outage
7/24	6.2

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* S-SSE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
conifer- dead	24 inch	70 ft

LOCATION OF TREE

Distance from Centerline 64

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☒	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

NATIONAL WEATHER SERVICE

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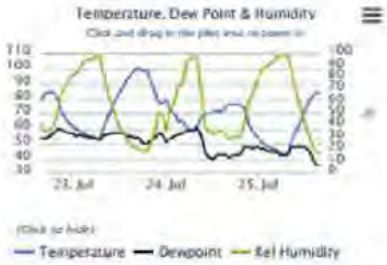
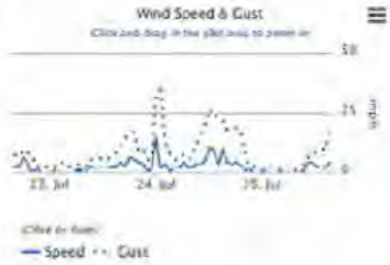
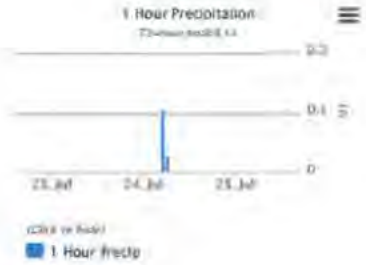
Weather Conditions For:
TROY, MT. TROM8 (RAWS)
Elev: 1950 ft.: Lat/Lon: 48.466667/-115.916667
Current Time: Jul 25 3:17 pm MDT
Get Yearly Precip Total (non QA/QC'd data)
Get Water Year Precip Total (non QA/QC'd data)

swipe







Date (MDT)	Temp (F)	Dew Point (F)	Relative Humidity (%)	Wind Direction	Wind Speed (MPH)	Fuel Temp (F)	Fuel Moisture (%)	Solar Radiation (W/m²)	Solar Pct of psbl	Precip Accumulated (inches)	1 Hour Precip (inches)	3 Hour Precip (inches)	6 Hour Precip (inches)	24 Hour Precip (inches)
25 Jul 3:07 pm	85	35	17	S	5G18	104	7	880	77%	9.60				
25 Jul 2:07 pm	84	37	19	ESE	2G10	106	7	899	78%	9.60				
25 Jul 1:07 pm	81	43	26	ENE	2G10	104	8	870	78%	9.60				
25 Jul 12:07 pm	75	47	37	NNW	3G9	96	9	798	78%	9.60				
25 Jul 11:07 am	69	46	47	NNW	5G9	84	10	681	77%	9.60				
25 Jul 10:07 am	62	48	60	N	5G7	74	13	531	75%	9.60				
25 Jul 9:07 am	57	48	73	N	1G4	65	18	358	71%	9.60				
25 Jul 8:07 am	52	48	87		CALM	54	23	161	56%	9.60				
25 Jul 7:07 am	44	43	98		CALM	41	23	19	26%	9.60				
25 Jul 6:07 am	43	42	98		CALM	38	21	0	--	9.60				
25 Jul 5:07 am	44	43	98		CALM	40	20	0	--	9.60				0.03
25 Jul 4:07 am	46	45	96	NW	1G3	41	18	0	--	9.60				0.14
25 Jul 3:07 am	47	45	93		CALM	42	16	0	--	9.60				0.14
25 Jul 2:07 am	48	45	90		CALM	43	14	0	--	9.60				0.14
25 Jul 1:07 am	50	47	89		CALM	45	12	0	--	9.60				0.14
25 Jul 12:07 am	52	47	83	NNW	1	47	10	0	--	9.60				0.14
24 Jul 11:07 pm	55	48	76		CALM	49	9	0	--	9.60				0.14
24 Jul 10:07 pm	58	47	68		CALM	53	8	5	--	9.60				0.14
24 Jul 9:07 pm	63	48	59	SSE	2G3	61	7	33	20%	9.60				0.14
24 Jul 8:07 pm	73	48	42	SW	1G8	76	7	240	64%	9.60				0.14
24 Jul 7:07 pm	76	43	31	S	3G16	81	7	346	59%	9.60				0.14
24 Jul 6:07 pm	76	43	31	SE	5G19	86	7	515	66%	9.60				0.14
24 Jul 5:07 pm	76	42	30	WSW	4G18	90	6	697	74%	9.60				0.14
24 Jul 4:07 pm	76	41	29	S	5G18	94	7	797	75%	9.60				0.14
24 Jul 3:07 pm	74	43	33	SSE	10G22	91	8	692	61%	9.60				0.14
24 Jul 2:07 pm	71	43	36	SSE	4G24	80	6	385	33%	9.60				0.14
24 Jul 1:07 pm	72	43	35	SSE	9G24	85	8	754	67%	9.60				0.14
24 Jul 12:07 pm	71	40	33	SSE	11G27	85	10	833	81%	9.60				0.14
24 Jul 11:07 am	70	41	35	W	6G21	83	11	694	78%	9.60			0.03	0.14
24 Jul 10:07 am	70	44	39	SSW	4G16	78	16	527	74%	9.60			0.14	0.14
24 Jul 9:07 am	67	55	66	SSE	4G12	68	20	322	64%	9.60			0.14	0.14
24 Jul 8:07 am	62	61	96	SW	2G7	63	24	95	33%	9.60		0.03	0.14	0.14
24 Jul 7:07 am	60	59	98	S	3G6	60	20	10	13%	9.60		0.14	0.14	0.14
24 Jul 6:07 am	60	59	95	S	5G8	60	14	0	--	9.60	0.03	0.14	0.14	0.14
24 Jul 5:07 am	61	59	93	SSE	2G6	61	10	0	--	9.57	0.11	0.11	0.11	0.11
24 Jul 4:07 am	65	57	75	S	2G6	64	8	0	--	9.46				
24 Jul 3:07 am	65	56	73	SW	1G8	61	7	0	--	9.46				

24 Jul 2:07 am	70	55	59	N	4G13	68	7	0	--	9.46
24 Jul 1:07 am	72	53	52	ENE	2G35	70	7	0	--	9.46
24 Jul 12:07 am	80	51	36	SW	15G33	79	6	0	--	9.46
23 Jul 11:07 pm	77	56	49	SSE	3G7	73	6	0	--	9.46
23 Jul 10:07 pm	77	57	51		CALM	74	6	5	--	9.46
23 Jul 9:07 pm	85	54	35	SSE	4G10	82	5	52	32%	9.46
23 Jul 8:07 pm	92	52	26	SSW	5G9	93	5	226	59%	9.46
23 Jul 7:07 pm	99	50	19	S	6G17	105	5	452	76%	9.46
23 Jul 6:07 pm	99	50	19	SSE	7G17	104	5	295	38%	9.46
23 Jul 5:07 pm	101	54	21	SSE	3G14	114	5	550	58%	9.46
23 Jul 4:07 pm	99	54	22	SE	5G11	117	5	793	74%	9.46
23 Jul 3:07 pm	97	55	24	SE	3G9	119	6	833	73%	9.46
23 Jul 2:07 pm	94	55	27	SE	3G8	116	6	855	74%	9.46
23 Jul 1:07 pm	89	57	34	ENE	2G6	113	7	852	76%	9.46
23 Jul 12:07 pm	85	57	39	E	2G7	107	8	779	76%	9.46
23 Jul 11:07 am	80	57	46	ESE	2G6	97	10	662	74%	9.46
23 Jul 10:07 am	73	57	58	SE	2G6	86	12	516	72%	9.46
23 Jul 9:07 am	67	56	69	SE	3G6	75	16	347	68%	9.46
23 Jul 8:07 am	61	56	83		CALM	63	22	128	44%	9.46
23 Jul 7:07 am	53	52	98	S	1G3	51	23	18	22%	9.46
23 Jul 6:07 am	54	53	98	SSE	1G4	50	22	1	--	9.46
23 Jul 5:07 am	55	54	96		CALM	51	21	0	--	9.46
23 Jul 4:07 am	55	54	96		CALM	51	19	0	--	9.46
23 Jul 3:07 am	57	55	94		CALM	53	18	0	--	9.46
23 Jul 2:07 am	59	56	89		CALM	55	15	0	--	9.46
23 Jul 1:07 am	60	55	85	NW	1G3	57	13	0	--	9.46
23 Jul 12:07 am	62	57	83		CALM	58	11	0	--	9.46
22 Jul 11:07 pm	64	57	78		CALM	60	10	0	--	9.46
22 Jul 10:07 pm	67	58	73		CALM	63	8	7	--	9.46
22 Jul 9:07 pm	71	60	68	W	2G3	70	7	46	27%	9.46
22 Jul 8:07 pm	81	60	49		CALM	84	7	227	59%	9.46
22 Jul 7:07 pm	86	57	39	NW	5G9	89	7	337	57%	9.46
22 Jul 6:07 pm	85	55	36	NW	7G10	95	7	533	68%	9.46
22 Jul 5:07 pm	84	53	35	NW	3G7	100	8	533	56%	9.46
22 Jul 4:07 pm	79	54	42	NE	3G8	98	8	679	63%	9.46

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National Weather Service
Salt Lake City, UT
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BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**7/29/19**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
RAVE-PAUL	**6/4**
Date Outage Occurred	Duration of Outage
07/26/19	

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**37"**	**115'**

LOCATION OF TREE

Distance from Centerline **95'**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**0%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☒	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Jermy Jackson did talk to the person that fell the tree into the line. see atachment for his photos and documentation.

GENERAL REMARKS

This tree was cut by a very inxperinced property owner and by the evedence of the stump the tree was faced to fall parellel to the conducters. The picture of the cut shows that the property owner cut off all the holding would except a little section on the power corridor side and that is precisely the direction that the tree fell.

The tree may have been showing some sighns of diseas but it is dificult to tell after it has been energized by a 500Kv line. The area does indicate that there may be rot root in the area but this tree was still stable and had solid wood with in the trunk.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

Nimmo,Jace H (CONTR) - TFBV-DOB-1

From:	Jackson,Jeremy W (BPA) - TFOK-CHEHALIS
Sent:	Tuesday, July 30, 2019 7:49 AM
To:	Hunt,Jason D (BPA) - TFBV-OLYMPIA
Subject:	FW: Raver-Paul Outage 7/27/19
Attachments:	1245.jpg; 1238.jpg; 1239.jpg; 1249.jpg; 1236.jpg; 1233.jpg; 1234.jpg; 1247.jpg; 1246.jpg; 1243.jpg; 1240.jpg; 1241.jpg; 1242.jpg; 1250.png; 1251.tiff

The Raver-Paul line relayed out on Saturday at approximately 1540. I received a call from Dittmer Dispatch shortly after that notifying me that the line was out. Dispatch didn't have any targets at the time but asked if I could muster up a crew and start patrolling our end of the line. When I arrived at the shop I called dispatch back to get an update. I was informed that they had been in contact with a fire dispatcher and that there was a report of a fire on the right of way. I was given the physical address of the location as well as a fault target of 6 miles out of Raver. The dispatcher asked if I could respond to that location as they weren't able to make contact with Covington TLM. I reported it would take a couple hours but I was willing to go. While in route I talked to the Covington FMIII. Once we arrived on scene we found an off right of way tree laying across one position at structure 6/4. Puget Sound Energy had two troublemen on site as well and pointed out that the fault had caused significant damage to two separate properties and was related to a disruption of power to their customers in the area.

The tree caused the line to go to ground through the branches and into an old growth stump directly under the line. There is a clear and visible path burned in the grass showing the path the fault took which leads to a gate post supporting a fence circling the horse pasture. The fenced enclosure is completely on ROW and is made up of metal gates as well. One property owner had an old satellite dish mounted to a gate post 200' from the spot the line went to ground. The fault traveled through the coax cable and into the house. It backfed through the houses service onto the system neutral causing it to burn down in two different places in the neighborhood. This caused the outage to the PSE customers in the area. There was another property 300' ahead on line that had a short section of metal fence attached directly to their shop. This attachment point provided a path to burn up the wiring in this shop as well.

I picked up a clearance and we grounded the line. Once the line was grounded the tree was removed from the conductor. After we inspected the conductor for damage we removed the grounds and released the clearance. PSE was still waiting for a crew to arrive to fix the down wire thus their customers were still in the dark when we left.

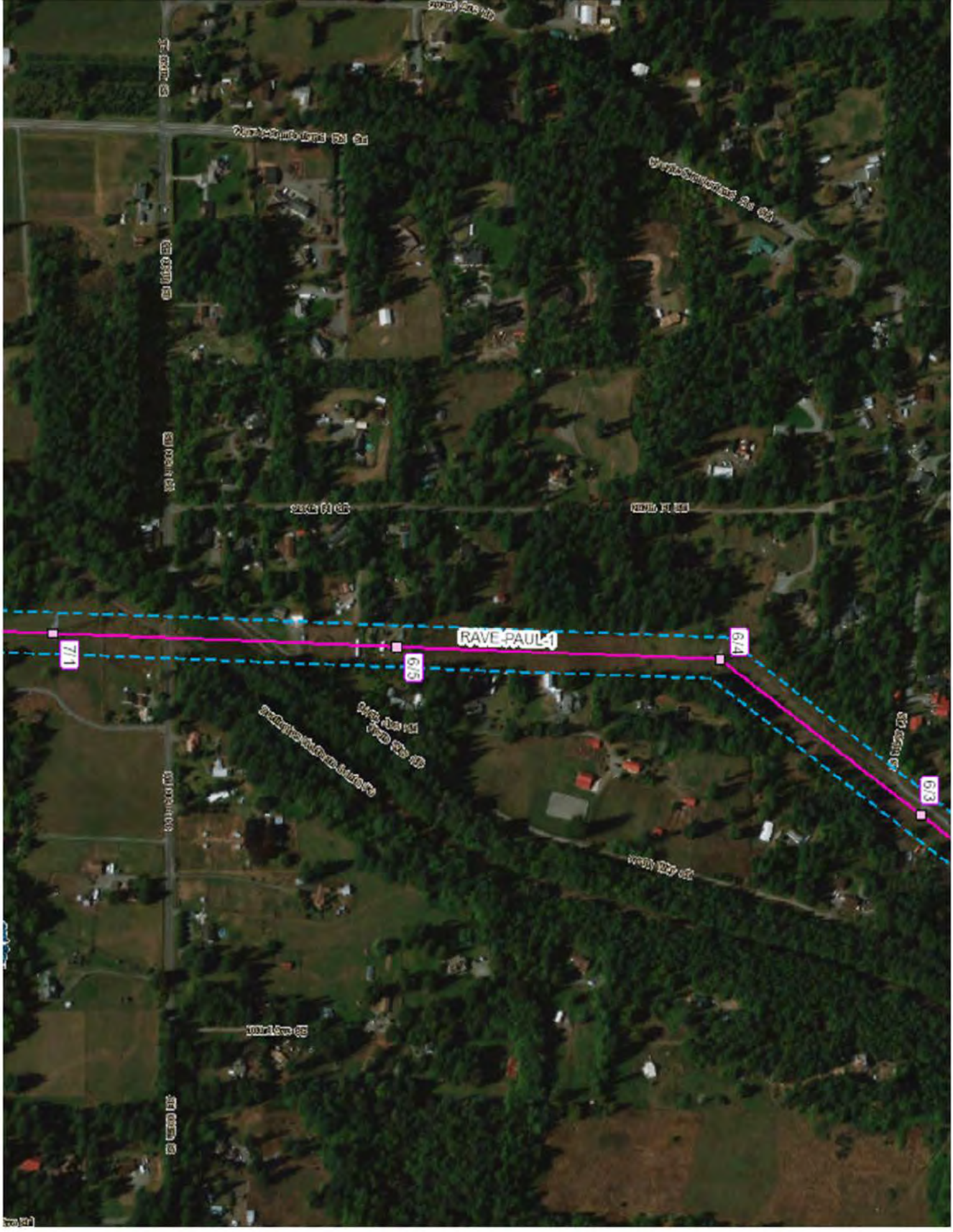
I have included some pictures of the fault location as well as some of the damage that was visible.

- The tree was ahead on line, Left, of structure 6/4.
- The tree that fell was 95' from centerline
- 200' from the fault location to the Satellite dish
- 362' from the fault location to the damaged shop
- The address of the tree felling party : 37903 304th Way SE Enumclaw, Wa

Please let me know if you have further questions. Have a great day!

Jeremy Jackson
Bonneville Power Administration
CHEHALIS TLM FOREMAN III
1140 Hwy 603
Chehalis, Wa 98532
TFOK

(o) 360-748-6575
(c) (b)(6)
(f) 360-748-0991


RAVE PAUL 1
77
6/5
6/4
6/3


6/4
Tree location
Old Growth Stump
Satellite Dish
Damaged Shop

























370279



BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Bruce Bashor / Carlos Mora	8/22/19

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No. 1	21/7 +195' AHOL right side
Date Outage Occurred	Duration of Outage
8/22/19	Unknown at this time

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	16"	120'

LOCATION OF TREE

Distance from Centerline 140'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☒	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree appeard healthy with the excemption of several conks on it. This tree was probably stressed from the snow storm we had early in the year.
Carlos - I went out to the site and inspected the other trees in the area and din not see any concerns from those trees.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/23/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Eugene-Alderwood	16/16 (30' BOL of 16/17)
Date Outage Occurred	Duration of Outage
9/21/2019	0 Min.

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Oak	30"	89'

LOCATION OF TREE

Distance from Centerline 73'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☒	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Tree broke off at base.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/25/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Lookout Point-Alvey No.2	3/10
Date Outage Occurred	**Duration of Outage**
9/21/2019	149

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	26"	93'

LOCATION OF TREE

Distance from Centerline 64'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Logging activities (thinning) on Seneca Timber Co. Logging contractor is Miller Timber Service. According to the logger, he fell the tree away from the line and in to the timber, it got caught up in the trees and the logger tried to move it. As he pulled the tree, it swung out, the top of the tree broke off and hit the line.

I met with Manager of Miller Timber (b) (6) and discussed safety concerns and shared a copy of BPA's Guidelines for Logging Activities and the Logging Safety brochure.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Robert Zeller	09/30/2019

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic-1	30/6
Date Outage Occurred	Duration of Outage
09/30/2019	85 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☒	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Conifer	12	90

LOCATION OF TREE

Distance from Centerline 75 ft

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Outage Type: Planned
Cause Dispatch: Emergency- Tree bending towards line due to wind and ice/snowload.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.





BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**01/03/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM	**25/1**
Date Outage Occurred	Duration of Outage
12/19/20	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**18"**	**100**

LOCATION OF TREE

Distance from Centerline **61'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**5%**		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree up rooted with a farly larege root mass and did not show any sighns of disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt	1/23/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU 1	68/1
Date Outage Occurred	Duration of Outage
01/15/2020	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	16"	97'

LOCATION OF TREE

Distance from Centerline 86'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	30%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree failed at the ground level due to laminated root rot..

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**02/04/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
PA-SAPH	**33/9**
Date Outage Occurred	Duration of Outage
02/01/2020	**20hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**14"**	**97'**

LOCATION OF TREE

Distance from Centerline **53'**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**10**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree failed due to the Root rot that is effecting large areas of this corridor and High winds. There are many new and old marked DT's in this area that will cause outages in the the years to come if not weeks.

Return or E-mail form to Kathy Stephenson – TR –TPP-4



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**02/04/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
PA-SAPH	**29-10**
Date Outage Occurred	Duration of Outage
01/31/2020	**20hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**5' to 16'**	**97'**

LOCATION OF TREE

Distance from Centerline **63'**

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	**30%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☒	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☒	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

5 to 7 trees all failed in one large group, and all showing sighns of root rot but sense they all came over to gether a larg root ball was present on these trees. The creek that has created a scouring effect in high water events also played a part in the failure of these trees. Many other old painted trees in this area, I was not able to determine if and of these trees had been marked with a DT because of the tangled mess.

Return or E-mail form to Kathy Stephenson – TR –TPP-4







BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Jacob Grinolds	2/4/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chief Jo-Monroe #1	92/3
Date Outage Occurred	Duration of Outage
1/11/2020	21 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	35 in	135 ft

LOCATION OF TREE

Distance from Centerline 135 ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Large Doug fir 135 ft from centerline pulled over from heavy snow loading. Tree very healthy but did have shallow roots and snow pulled over entire root wad.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Jacob Grinolds	**2/14/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Chief Jo-Snohomish #4	**89/2**
Date Outage Occurred	Duration of Outage
1/14/2020	**32 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**20 in**	**120 ft**

LOCATION OF TREE

Distance from Centerline **72 ft (62.5 ft easement width)**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Douglas fir compromised by snow loading from major snow storm. Tree snapped 4 ft from ground from snow. Tree was very burnt up the entire length and if this happened in summer instead of during snow strom it would of started a fire..

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**3/31/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
PA-SAPPHO	**33/8**
Date Outage Occurred	Duration of Outage
03/31/2020	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir		

LOCATION OF TREE

Distance from Centerline

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

This outage was casued from a wood thief cutting fire wood on FS property. The tree fell 90deg in the wrong directions from the face cut. Lee Webb indicated that this was not the first tree in the area that has been cut and aproximatly nine other trees have been removed and the local Sheriffe and the Forest Service law inforcment are currently investigating this incedent.

The person that was responsible was not on scene and has not been identified as of yet.

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4





BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Daniel Misch	**06/12/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego - 1	**SE of structure 9/4**
Date Outage Occurred	Duration of Outage
05/31/2020	**510 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	**12"**	**60'**

LOCATION OF TREE

Distance from Centerline **50'**

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground		**%**	
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

High wind and heavy rain reported. See attached National Weather Service Report.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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029
CDUS45 KMSO 010738
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
138 AM MDT MON JUN 01 2020

.....................................

...THE KALISPELL MT CLIMATE SUMMARY FOR MAY 31 2020...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1894 TO 2020
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	75	1218 AM	92	1986	69	6	77
MINIMUM	43	1159 PM	28	1950	43	0	49
AVERAGE	59				56	3	63
PRECIPITATION (IN)							
YESTERDAY	0.40		0.94	1990	0.09	0.31	0.00
MONTH TO DATE	3.16				1.98	1.18	0.88
SINCE OCT 1	9.83				10.61	-0.78	10.26
SINCE JAN 1	6.98				6.61	0.37	6.88
SNOWFALL (IN)							
YESTERDAY	0.0						
MONTH TO DATE	0.0						
SINCE MAR 1	4.3						
SINCE JUL 1	38.6						
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
YESTERDAY	6				10	-4	2
MONTH TO DATE	402				413	-11	350
SINCE MAR 1	2037				1972	65	2180
SINCE JUL 1	7512				7824	-312	8175
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	6				3	3	0
SINCE MAR 1	6				3	3	0
SINCE JAN 1	6				3	3	0

WIND (MPH)			
HIGHEST WIND SPEED	55	HIGHEST WIND DIRECTION	SW (230)
HIGHEST GUST SPEED	69	HIGHEST GUST DIRECTION	SW (240)
AVERAGE WIND SPEED	8.3		

SKY COVER

```
   POSSIBLE SUNSHINE  MM
   AVERAGE SKY COVER 0.6


 WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
   HEAVY RAIN
   LIGHT RAIN
   FOG


 RELATIVE HUMIDITY (PERCENT)
  HIGHEST     97           700 AM
  LOWEST      46           600 PM
  AVERAGE     72

 .....................................................


 THE KALISPELL MT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
  MAXIMUM TEMPERATURE (F)   69        90      1986
  MINIMUM TEMPERATURE (F)   43        28      1951


 SUNRISE AND SUNSET
 JUNE  1 2020.....SUNRISE   540 AM MDT   SUNSET   930 PM MDT
 JUNE  2 2020.....SUNRISE   540 AM MDT   SUNSET   931 PM MDT


 -  INDICATES NEGATIVE NUMBERS.
 R  INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T  INDICATES TRACE AMOUNT.
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The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

31370245 BPA-2025-03068-F 0448

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Daniel Misch	**06/12/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego - 1	**NW of structure 23/8**
Date Outage Occurred	Duration of Outage
05/31/2020	**510 mintues**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
White Spruce	**11"**	**60'**

LOCATION OF TREE

Distance from Centerline **55'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

High wind and heavy rain reported. See attached National Weather Service Report.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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029
CDUS45 KMSO 010738
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
138 AM MDT MON JUN 01 2020

.....................................

...THE KALISPELL MT CLIMATE SUMMARY FOR MAY 31 2020...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1894 TO 2020
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WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	75	1218 AM	92	1986	69	6	77
MINIMUM	43	1159 PM	28	1950	43	0	49
AVERAGE	59				56	3	63
PRECIPITATION (IN)							
YESTERDAY	0.40		0.94	1990	0.09	0.31	0.00
MONTH TO DATE	3.16				1.98	1.18	0.88
SINCE OCT 1	9.83				10.61	-0.78	10.26
SINCE JAN 1	6.98				6.61	0.37	6.88
SNOWFALL (IN)							
YESTERDAY	0.0						
MONTH TO DATE	0.0						
SINCE MAR 1	4.3						
SINCE JUL 1	38.6						
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
YESTERDAY	6				10	-4	2
MONTH TO DATE	402				413	-11	350
SINCE MAR 1	2037				1972	65	2180
SINCE JUL 1	7512				7824	-312	8175
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	6				3	3	0
SINCE MAR 1	6				3	3	0
SINCE JAN 1	6				3	3	0

WIND (MPH)			
HIGHEST WIND SPEED	55	HIGHEST WIND DIRECTION	SW (230)
HIGHEST GUST SPEED	69	HIGHEST GUST DIRECTION	SW (240)
AVERAGE WIND SPEED	8.3		

SKY COVER

```
   POSSIBLE SUNSHINE  MM
   AVERAGE SKY COVER 0.6


 WEATHER CONDITIONS
 THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
   HEAVY RAIN
   LIGHT RAIN
   FOG


 RELATIVE HUMIDITY (PERCENT)
  HIGHEST     97           700 AM
  LOWEST      46           600 PM
  AVERAGE     72

 .....................................................


 THE KALISPELL MT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
  MAXIMUM TEMPERATURE (F)   69        90      1986
  MINIMUM TEMPERATURE (F)   43        28      1951


 SUNRISE AND SUNSET
 JUNE  1 2020.....SUNRISE   540 AM MDT   SUNSET   930 PM MDT
 JUNE  2 2020.....SUNRISE   540 AM MDT   SUNSET   931 PM MDT


 -  INDICATES NEGATIVE NUMBERS.
 R  INDICATES RECORD WAS SET OR TIED.
 MM INDICATES DATA IS MISSING.
 T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

31370236 BPA-2025-03068-F 0451

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Daniel Misch	**06/12/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego - 1	**N of structure 28/5**
Date Outage Occurred	Duration of Outage
05/31/2020	**510 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	**10"**	**50'**

LOCATION OF TREE

Distance from Centerline **60'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☒	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

High wind and heavy rain reported. See attached National Weather Service Report.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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029
CDUS45 KMSO 010738
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CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
138 AM MDT MON JUN 01 2020

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...THE KALISPELL MT CLIMATE SUMMARY FOR MAY 31 2020...

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CLIMATE RECORD PERIOD 1894 TO 2020
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YESTERDAY	0.0						
MONTH TO DATE	0.0						
SINCE MAR 1	4.3						
SINCE JUL 1	38.6						
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
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YESTERDAY	0				0	0	0
MONTH TO DATE	6				3	3	0
SINCE MAR 1	6				3	3	0
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WIND (MPH)			
HIGHEST WIND SPEED	55	HIGHEST WIND DIRECTION	SW (230)
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AVERAGE WIND SPEED	8.3		

SKY COVER

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   POSSIBLE SUNSHINE  MM
   AVERAGE SKY COVER 0.6


 WEATHER CONDITIONS
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   LIGHT RAIN
   FOG


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                          NORMAL    RECORD    YEAR
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 -  INDICATES NEGATIVE NUMBERS.
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 MM INDICATES DATA IS MISSING.
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The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

31370239 BPA-2025-03068-F 0454

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Lee Webb	7/27/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
SO ELM-SATSOP PARK	2/7
Date Outage Occurred	Duration of Outage
07/27/2020	5

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
fir	14inches	80 feet

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	2%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

This outage was casued from a land owner falling trees with a tractor. He atached a rope four feet up into the tree and then proceed to make a face cut and a back cut then used the tractor to pull the tree over, the stump was cut all the way thru and the tractor just pulled the tree of the stump and it fell over backwards contacting the lines.

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/13/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Thurston-Holden Creek	2/2
Date Outage Occurred	Duration of Outage
9/7/2020	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	12"	80'

LOCATION OF TREE

Distance from Centerline 65'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☒	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Windy conditions at the time of outage.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/13/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Thurston-Holden Creek	2/5
Date Outage Occurred	Duration of Outage
9/7/2020	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	12"	88'

LOCATION OF TREE

Distance from Centerline 57'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☒	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind or fire is unknown.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/13/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Thurston-Holden Creek	5/2
Date Outage Occurred	Duration of Outage
9/7/2020	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	15"	70'

LOCATION OF TREE

Distance from Centerline 61'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☒	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind or fire is unknown.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	9/13/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Thurston-Holden Creek	6/1
Date Outage Occurred	**Duration of Outage**
9/7/2020	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	18"	87'

LOCATION OF TREE

Distance from Centerline 56'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
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☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
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REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
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☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Wind or fire is unknown.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Craig Fackrell	7/31/20

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic-1	25/6 - mid-span
Date Outage Occurred	Duration of Outage
7/30/20	361 minutes

WEATHER AT THE TIME OF OCCURRENCE

☒	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	14"	90'

LOCATION OF TREE

Distance from Centerline 75'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	20%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
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GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

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☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

Logging operation in the area, but this was not human-caused. The tree was dead and fell naturally overnight, igniting a small fire that grew to approx. 1.5 acres before crews contained it early morning. At least two wildland fire crews responded and were mopping up hotspots Friday morning. Early Friday morning, a firefighter was struck by a falling snag and transported to the hospital. Boots and I had conversations with fire and USFS personnel on site, they plan on being there for the next two days at least, to be sure it is completely out.

GENERAL REMARKS

USFS will be accelerating timber harvest operations in the area to remove the fire-damage trees in the next few days. Any remaining DT's will be removed by BPA veg crews early next week. Fire damage is limited to one span (25/6), on the right side. NRS and TLM F3 will coordinate to ensure all new DT's are removed as soon as possible.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Chris Morse	10/23/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Troutdale #1	8/7
Date Outage Occurred	Duration of Outage
9/8/2020	NA

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* W/SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
WH	20	83

LOCATION OF TREE

Distance from Centerline 88

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Major wind storm occurred on this day throughout the entire region, with wind sustained average of 30-50mph and gusts above 70mph. The wind come from the E/NE and blew to the W/SW. The tree looked healthy with no visible decay. It broke off approx. 13ft above the ground. A few other trees had fallen in the area but didn't see anything that was actively leaning.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.





BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Lee Webb	11/18/2020

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
FAMT-POAN	8/2
Date Outage Occurred	Duration of Outage
11/18/2020	few hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	33 and 31 DBH	138 to 145 feet tall

LOCATION OF TREE

Distance from Centerline 138 feet

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☒	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Two trees growing in close proxsimity to each other uprooted with 15' tall root ball still atached and a small creek running under or near the root system. Roots do not show any significant sighns of deseas and failed due to undermined and saturated soils with high winds.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1.






F PA2
88
A






ECOL-MPLV-2 : 500 kV
ECOL-MPLV-1 : 500 kV
RKYR-MPLV-1 : 345 kV
168th St
7/2
7/1
7/1
7/1
119/2
119/1
22in Dia, 90 ft Height, 86 ft from centerline
266th Ave
GIS
Enterprise Geospatial Information
Created By: jacob Grinolds
Date Created: 12/20/2010
Map Scale: 1:1,727.84
0
0.0
Miles

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Craig Fackrell	12/23/20

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Spirit Tap - Colville-Boundary #1	1/8
Date Outage Occurred	Duration of Outage
12/22/20 at 0013	232 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole pine	13"	65'

LOCATION OF TREE

Distance from Centerline 65'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☒	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Completely dead tree about 15' off ROW, hidden by healthy trees on ROW edge.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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626
CDUS46 KOTX 230857
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1257 AM PST WED DEC 23 2020

.....................................

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR DECEMBER 22
2020...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
...
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         44   1214 AM  MM      MM  31     13        44
  MINIMUM         19   1159 PM  MM      MM  18      1        32
  AVERAGE         32                       24      8        38

PRECIPITATION (IN)
  YESTERDAY        0.06         MM      MM   0.10  -0.04
0.02
  MONTH TO DATE    1.55                      2.00  -0.45
2.09
  SINCE OCT 1      5.70                      6.95  -1.25
5.05
  SINCE JAN 1     20.54                     21.39  -0.85
18.34
```

SNOWFALL (IN)
  YESTERDAY   MM

DEGREE DAYS
 HEATING
  YESTERDAY   33   41   -8   27
  MONTH TO DATE 745   861   -116   697
  SINCE DEC 1   745   861   -116   697
  SINCE JUL 1   2617   2864   -247   2776

 COOLING
  YESTERDAY   0   0   0   0
  MONTH TO DATE   0   0   0   0
  SINCE DEC 1   0   0   0   0
  SINCE JAN 1   219   187   32   159
.....
...

WIND (MPH)
  HIGHEST WIND SPEED   32   HIGHEST WIND DIRECTION   SW (220)
  HIGHEST GUST SPEED   43   HIGHEST GUST DIRECTION   SW (210)
  AVERAGE WIND SPEED   9.5

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.6

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   88   1100 PM
 LOWEST   48   1000 AM
 AVERAGE   68

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                         NORMAL   RECORD   YEAR

```
 MAXIMUM TEMPERATURE (F)    31          MM          MM
 MINIMUM TEMPERATURE (F)    18          MM          MM


SUNRISE AND SUNSET
DECEMBER 23 2020......SUNRISE   738 AM PST   SUNSET   400 PM PST
DECEMBER 24 2020......SUNRISE   738 AM PST   SUNSET   401 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(05-2018)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 05/29/2018

Name of Inspector	Date of Inspection
Carlos Mora	1/6/21

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Toledo-Wendson	41/5
Date Outage Occurred	Duration of Outage
11/13/20	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18"	120'

LOCATION OF TREE

Distance from Centerline 82'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Alvey TLM responded to this outage as North Bend TLM crew were in the Salem district assisting with other work.

Return or e-mail form to: Charles Sheppard – TFBV-DOB-1

There are two location associated with OARSID 217120.

Port Angeles-Sappho 33/2

Port Angeles-Sappho 35/1

BPA F 4300.04e (12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector		District	Date of Inspection
Jason Hunt		**Olympia**	**1/11/2021**
TRANSMISSION LINE DATA			
Name *(Operated as)*		Location of Outage *(Structures)*	
Port Angeles - Sappho 115kv		**33/2**	
Date Outage Occurred	Outage ID	Duration of Outage	
1/5/2021	**217120**	**20hrs**	

BPA F 4300.04e (12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector		District	Date of Inspection
Jason Hunt		**Olympia**	**1/11/2021**
TRANSMISSION LINE DATA			
Name *(Operated as)*		Location of Outage *(Structures)*	
Port Angeles - Sappho 115kv		**35/1**	
Date Outage Occurred	Outage ID	Duration of Outage	
1/5/2021	**217120**	**20hrs**	

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION (BPA)

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	1/11/2021

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
Port Angeles - Sappho 115kv	33/2

Date Outage Occurred	Outage ID	Duration of Outage
1/5/2021	217120	20hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind (Indicate direction) east	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	15	120'

LOCATION OF TREE

Distance from Centerline 65' Manage ROW Width 100'

☑	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground 39 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused (cut)	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This tree failed because of root rot and high winds. While driving to the site it was apparent there are many new dead and dying trees in the area. (Forest Service property)

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.









BPA F 4300.04a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/11/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles - Sappho 115kv	**35/1**

Date Outage Occurred	Outage ID	Duration of Outage
1/5/2021	**217120**	**20hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **east**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**15**	**120'**

LOCATION OF TREE

Distance from Centerline **68'** Manage ROW Width **100'**

☑	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**30** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☑	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This tree failed because of root rot and high winds. While driving to the site it was apparent there are many new dead and dying trees in the area. (Forest Service property)

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04s
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/13/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton - Kitsap #1	**17/2**

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	**217175**	**12hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**29"**	**132'**

LOCATION OF TREE

Distance from Centerline **68'** Manage ROW Width **50'**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	**15** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This tree did not have any apparent health issue. larger rot wad came up but had sat back down when the tree was cut free.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.64a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Daniel Misch	**Kalispell**	**1/14/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
NOXN-HOTS-1	**10/1 - 10/2 (400' AHOL-R from 10/1)**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217309**	**6hrs 31min**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **West**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Ponderosa Pine	**30"**	**90'**

LOCATION OF TREE

Distance from Centerline **88'** Manage ROW Width **120'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**0** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

OFF ROW mature tree had a weak attachment of codominant leaders at 30'. Wind broke the tree at the attachment which fell perpendicular into the lines. The main trunk of the tree was strong and remained standing, but is under line height and poses not threat left standing.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

P1 below shows the location of the first tree in relation to the line, P2 shows the point at which the weak attachment broke, and P3 shows the codominant leaders. A second tree fell approximately 7 miles NW in the same event, the details are below. The National Weather service observed wind gusts from the West up to 59MPH in the area of the outage. See attached NWS weather report.

TREE INSPECTION Second tree at 620' AHOL-R from structure 3/2

Species	Approximate DBH	Approximate Height
Douglas Fir	27"	70'

LOCATION OF TREE

Distance from Centerline 100' | Manage ROW Width 120'

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	0 %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☑	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

OFF ROW mature tree was uprooted by high winds and fell perpendicular into lines. Tree showed signs of minor stress. See P4 for location. P5 for root failure. and P6 for resin.

P1:


47°51'25"N, 115°36'42"W ±16ft ▲2362ft
NOXN-HOTS-1 10-1
2021-01-14, 12:21:41 PM

P2:



P3:



P4:


47°56'24"N, 115°41'41"W ±16ft ▲ 2393ft
NOXN-HOTS-1 3-2
14 Jan 2021, 11:34:08 AM

P5:



P6:



These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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980
CDUS45 KMSO 140837
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
137 AM MST THU JAN 14 2021

.....................................

...THE MISSOULA MT CLIMATE SUMMARY FOR JANUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1893 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	47	723 AM	50	1945 1953 1983	33	14	33
MINIMUM	32	1118 PM	-17	1993	18	14	23
AVERAGE	40				25	15	28
PRECIPITATION (IN)							
YESTERDAY	0.18		0.71	1913	0.03	0.15	T
MONTH TO DATE	0.25				0.39	-0.14	0.44
SINCE OCT 1	4.28				3.32	0.96	2.56
SINCE JAN 1	0.25				0.39	-0.14	0.44
SNOWFALL (IN)							
YESTERDAY	0.0						
MONTH TO DATE	0.1						
SINCE DEC 1	4.9						
SINCE JUL 1	23.8						
SNOW DEPTH	0						

31370379 BPA-2025-03068-F 0492

DEGREE DAYS

HEATING				
YESTERDAY	25	40	-15	37
MONTH TO DATE	406	527	-121	437
SINCE DEC 1	1551	1803	-252	1541
SINCE JUL 1	3429	3699	-270	3622
COOLING				
YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE DEC 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

HIGHEST WIND SPEED	44	HIGHEST WIND DIRECTION	W (270)
HIGHEST GUST SPEED	59	HIGHEST GUST DIRECTION	W (270)
AVERAGE WIND SPEED	17.8		

SKY COVER

POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)

HIGHEST	93	200 AM
LOWEST	42	600 PM
AVERAGE	68	

.....

THE MISSOULA MT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	33	54	1894 1994
MINIMUM TEMPERATURE (F)	18	-17	1960

SUNRISE AND SUNSET

JANUARY 14 2021.....	SUNRISE	818 AM MST	SUNSET	514 PM MST
JANUARY 15 2021.....	SUNRISE	817 AM MST	SUNSET	515 PM MST

31370379 BPA-2025-03068-F 0493

```
-   INDICATES NEGATIVE NUMBERS.
R   INDICATES RECORD WAS SET OR TIED.
MM  INDICATES DATA IS MISSING.
T   INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.64a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/13/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Shelton-Fairmont #1	**32/1**

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	**217265**	**12hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**18"**	**130'**

LOCATION OF TREE

Distance from Centerline **68'** Manage ROW Width **50'**

☑	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**10** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☑	Burn Scars
☐	Forks	☑	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

(1st tree info above) (2nd tree 16"dbh 90" tall.) The first tree was 100' off of the ROW and fell into the second tree that was 20' of off the ROW which appeared to then fall into the line and cause the outage.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

```
785
CDUS46 KSEW 130928
CLIHQM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
128 AM PST WED JAN 13 2021

.....

...THE HOQUIAM WA AIRPORT CLIMATE SUMMARY FOR JANUARY 12 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1953 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	54	1041 PM	58	1986 2019	47	7	47
MINIMUM	48	1159 PM	17	1963	38	10	34
AVERAGE	51				43	8	41
PRECIPITATION (IN)							
YESTERDAY	1.89		2.01	2006	0.35	1.54	0.38
MONTH TO DATE	12.41				4.22	8.19	7.46
SINCE OCT 1	39.26				31.88	7.38	26.13
SINCE JAN 1	12.41				4.22	8.19	7.46
DEGREE DAYS							
HEATING							
YESTERDAY	14				22	-8	24
MONTH TO DATE	230				275	-45	240
SINCE DEC 1	858				1002	-144	895
SINCE JUL 1	2163				2478	-315	2194
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
RESULTANT WIND SPEED	21	RESULTANT WIND DIRECTION	S (200)
HIGHEST WIND SPEED	48	HIGHEST WIND DIRECTION	SW (230)
HIGHEST GUST SPEED	59	HIGHEST GUST DIRECTION	SW (230)
AVERAGE WIND SPEED	22.1		

```
SKY COVER
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96          1100 AM
 LOWEST     86           500 PM
 AVERAGE    91

.....................................................


THE HOQUIAM WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        57      2019
 MINIMUM TEMPERATURE (F)   38        24      2017


SUNRISE AND SUNSET
JANUARY 13 2021.......SUNRISE   758 AM PST   SUNSET   452 PM PST
JANUARY 14 2021.......SUNRISE   757 AM PST   SUNSET   453 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	**Salem**	**1/20/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap to Forest Grove - Tillamook No.1	**10/1**

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	**217206**	**3581 minutes (1/15/21)**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	**28"**	**150'**

LOCATION OF TREE

Distance from Centerline **58'** Manage ROW Width **50' (100' total)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

See attached

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

During a strong wind/rain even on 1/12/2021 an off-ROW Douglas fir tree uprooted due to saturated soils and strong wind conditions, falling across all 3 phases of conductor of the Timber Tap 115kV line. TLM was dispatched to remove the tree that evening. While on site they determined one of the poles at 10/1 had broken, and there was damage to conductor. The pole was replaced that day. While on site on 1/20/21, I spoke with TLM and determined that they were still doing some repairs to damaged conductor.



BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Snohomish**	**1/21/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Snohomish-Murray #1	**13/6**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217260**	**11.5 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	**29 in.**	**100**

LOCATION OF TREE

Distance from Centerline **85 ft** Manage ROW Width **53.5 ft**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground	**0** %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree broke off from heart rot 15 ft from the ground and pinned multiple conductors to the ground.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Snohomish**	**1/14/2020**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Monroe-Novelty Hill #1	**11/2**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217230**	**19.5 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* E	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**32 in**	**125**

LOCATION OF TREE

Distance from Centerline **90** Manage ROW Width **75**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**10** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Fobs	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Half of a split top fir broke off and landed on 2 phases of Monroe-Novlty Hill #1. Signs of rot at the crook of tree where it broke.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Chris Morse	**Longview**	**1/21/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Ross #1	**33/4**

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	**217267**	**14 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**23**	**128**

LOCATION OF TREE

Distance from Centerline **89** Manage ROW Width **87.5**

☑	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground **45**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

Due to saturated soils, high winds and the tree located on steep slopes, the tree failed. Further inspection showed that this tree also had Root Rot which was another significant reason why this tree ended up falling.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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971
CDUS46 KPQR 131149
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE
349 AM PST WED JAN 13 2021

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...THE VANCOUVER WA CLIMATE SUMMARY FOR JANUARY 12 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1891 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         61R  1159 PM  58    1912  47     14       47
  MINIMUM         45   1231 AM  -8    1909  35     10       39
  AVERAGE         53                       41     12       43

PRECIPITATION (IN)
  YESTERDAY        1.89                      0.18   1.71     0.29
  MONTH TO DATE    5.91                      2.38   3.53     2.14

DEGREE DAYS
 HEATING
  YESTERDAY       12                                        22
  MONTH TO DATE  212                                       222
  SINCE JUL 1   1801                                      1972

 COOLING
  YESTERDAY        0                                        0
  MONTH TO DATE    0                                        0
  SINCE JAN 1      0                                        0
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION    SW (230)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED    10.6


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
```

```
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    90          1200 PM
 LOWEST     78           700 PM
 AVERAGE    84

.....................................................


SUNRISE AND SUNSET
JANUARY 13 2021.......SUNRISE   748 AM PST   SUNSET   451 PM PST
JANUARY 14 2021.......SUNRISE   748 AM PST   SUNSET   453 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Chris Morse	**Longview**	**1/21/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Johns-St Helens No 1	**15/2**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217268**	**65 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**25**	**122ft**

LOCATION OF TREE

Distance from Centerline **72** Manage ROW Width **50**

☐	Uphill	☑	Left Side		
☑	Downhill	%Slope of ground **30** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This tree seemed healthy and on stable soil. It feel uphill and root system showed signs of decay (i.e. root rot) which was the main reason it wasn't able to withstand the high wind and saturated soils for the storm.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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CDUS46 KPQR 131149
CLISP8

CLIMATE REPORT
NATIONAL WEATHER SERVICE
349 AM PST WED JAN 13 2021

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...THE SCAPPOOSE OR CLIMATE SUMMARY FOR JANUARY 12 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999


WEATHER ITEM   OBSERVED TIME       LAST
               VALUE   (LST)      YEAR
.....................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         59   1158 PM
  MINIMUM         45    116 AM

PRECIPITATION (IN)
  YESTERDAY        2.14            0.51
  MONTH TO DATE    6.94            2.84
  SINCE OCT 1     19.97           11.95
  SINCE JAN 1      6.94            2.84

DEGREE DAYS
 HEATING
  YESTERDAY       13              24
  MONTH TO DATE  234             251
  SINCE DEC 1    946             980
  SINCE JUL 1   2006            2224

 COOLING
  YESTERDAY        0               0
  MONTH TO DATE    0               0
  SINCE DEC 1      0               0
  SINCE JAN 1      0               0
.....................................


WIND (MPH)
  HIGHEST WIND SPEED    15   HIGHEST WIND DIRECTION    SW (210)
  HIGHEST GUST SPEED    22   HIGHEST GUST DIRECTION    SE (150)
  AVERAGE WIND SPEED     8.9


SKY COVER
  AVERAGE SKY COVER 1.0
```

```
WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    97           400 PM
 LOWEST     89           400 AM
 AVERAGE    93

.....................................................


SUNRISE AND SUNSET
JANUARY 13 2021.......SUNRISE   749 AM PST   SUNSET   451 PM PST
JANUARY 14 2021.......SUNRISE   749 AM PST   SUNSET   453 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	**Bell**	

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bell-Boundary #3	**91/5**

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	**217178**	**458 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

One tree fell on the line in span 91/5. Failure caused by high winds and icy/snowy conditions. Tree originated from off-ROW. Due to poor accessibility, no site visit was conducted at this time. NRS will visit as soon as conditions allow to collect the remaining info on this form.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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759
CDUS46 KOTX 130851
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1251 AM PST WED JAN 13 2021

.....................................

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR JANUARY 12
2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
...
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         44   1159 PM  MM      MM  33     11        34
  MINIMUM         33    626 AM  MM      MM  21     12        27
  AVERAGE         39                        27     12        31

PRECIPITATION (IN)
  YESTERDAY        1.74         MM      MM   0.09   1.65
0.36
  MONTH TO DATE    4.00                      1.22   2.78
2.28
  SINCE OCT 1     10.36                      9.04   1.32
8.12
  SINCE JAN 1      4.00                      1.22   2.78
2.28
```

SNOWFALL (IN)
  YESTERDAY   MM

DEGREE DAYS
 HEATING
  YESTERDAY   26   38   -12   34
  MONTH TO DATE 353   468   -115   390
  SINCE DEC 1   1435   1692   -257   1404
  SINCE JUL 1   3307   3695   -388   3483

 COOLING
  YESTERDAY   0   0   0   0
  MONTH TO DATE   0   0   0   0
  SINCE DEC 1   0   0   0   0
  SINCE JAN 1   0   0   0   0
.....
...

WIND (MPH)
  HIGHEST WIND SPEED   24   HIGHEST WIND DIRECTION   S (170)
  HIGHEST GUST SPEED   32   HIGHEST GUST DIRECTION   S (160)
  AVERAGE WIND SPEED   6.0

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   97   800 PM
 LOWEST   85   800 PM
 AVERAGE   91

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	33	MM	MM
MINIMUM TEMPERATURE (F)	21	MM	MM

SUNRISE AND SUNSET

JANUARY 13 2021	SUNRISE	735 AM PST	SUNSET	422 PM PST
JANUARY 14 2021	SUNRISE	735 AM PST	SUNSET	423 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Bell	

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Addy-Cusick	23/2

Date Outage Occurred	Outage ID	Duration of Outage
1/12/2021	217330	3561 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

One tree fell on the line in span 23/2. Failure caused by high winds and icy/snowy conditions. Tree originated from off-ROW. Due to poor accessibility, no site visit was conducted at this time. NRS will visit as soon as conditions allow to collect the remaining info on this form.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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759
CDUS46 KOTX 130851
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1251 AM PST WED JAN 13 2021

.....................................

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR JANUARY 12
2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
...
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         44   1159 PM  MM      MM  33     11        34
  MINIMUM         33    626 AM  MM      MM  21     12        27
  AVERAGE         39                        27     12        31

PRECIPITATION (IN)
  YESTERDAY        1.74         MM      MM   0.09   1.65
0.36
  MONTH TO DATE    4.00                      1.22   2.78
2.28
  SINCE OCT 1     10.36                      9.04   1.32
8.12
  SINCE JAN 1      4.00                      1.22   2.78
2.28
```

SNOWFALL (IN)
  YESTERDAY   MM

DEGREE DAYS
 HEATING
  YESTERDAY   26   38   -12   34
  MONTH TO DATE 353   468   -115   390
  SINCE DEC 1   1435   1692   -257   1404
  SINCE JUL 1   3307   3695   -388   3483

 COOLING
  YESTERDAY   0   0   0   0
  MONTH TO DATE   0   0   0   0
  SINCE DEC 1   0   0   0   0
  SINCE JAN 1   0   0   0   0
.....
...

WIND (MPH)
  HIGHEST WIND SPEED   24   HIGHEST WIND DIRECTION   S (170)
  HIGHEST GUST SPEED   32   HIGHEST GUST DIRECTION   S (160)
  AVERAGE WIND SPEED   6.0

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   97   800 PM
 LOWEST   85   800 PM
 AVERAGE   91

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	33	MM	MM
MINIMUM TEMPERATURE (F)	21	MM	MM

SUNRISE AND SUNSET

JANUARY 13 2021	SUNRISE	735 AM PST	SUNSET	422 PM PST
JANUARY 14 2021	SUNRISE	735 AM PST	SUNSET	423 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Bell	

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Taft-Bell	38/3

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	217308	1823 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline

☐	Uphill	☑	Left Side	Manage ROW Width	
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

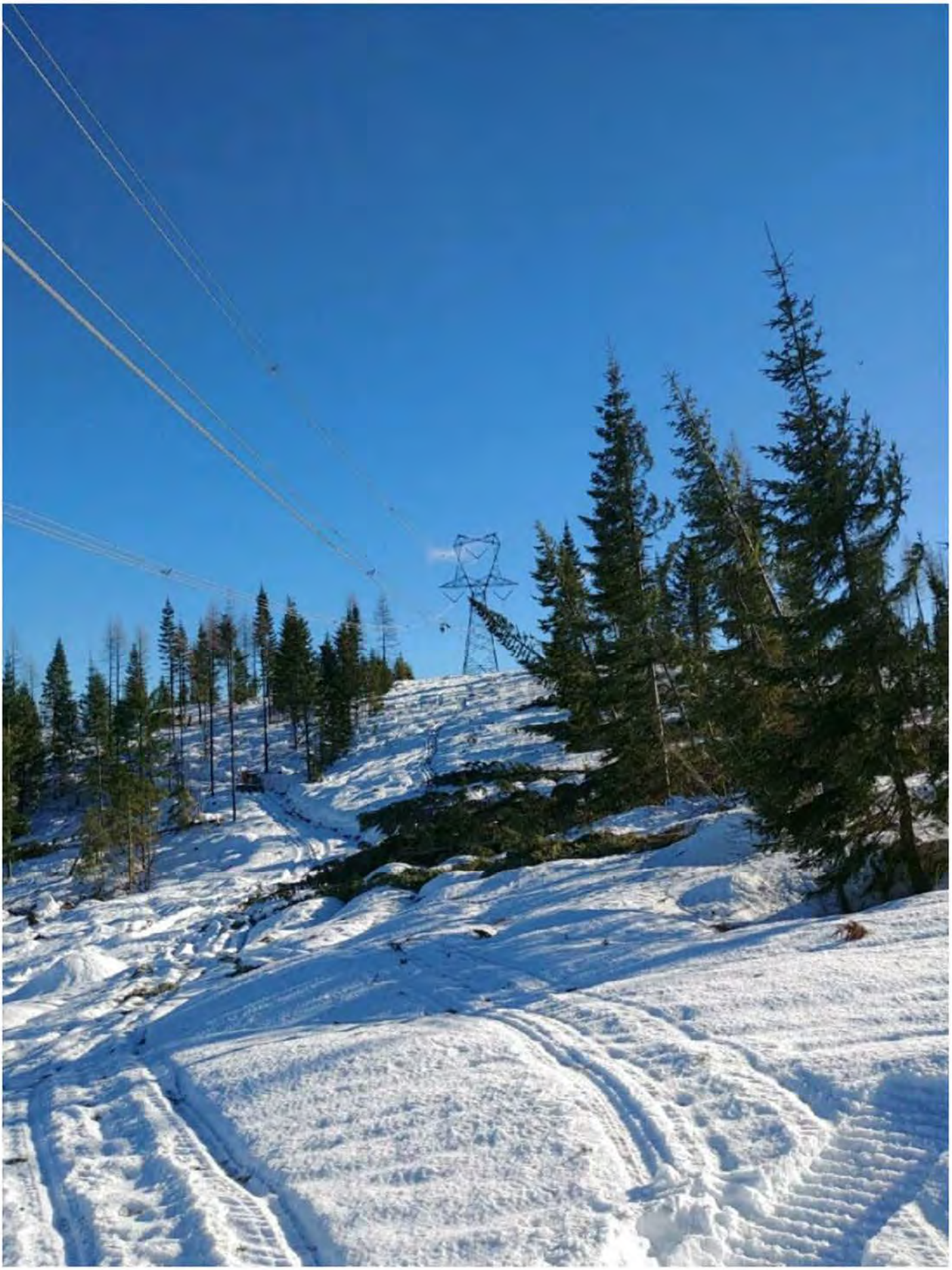
If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

One tree fell on the line in span 38/3. Failure caused by high winds and icy/snowy conditions. Tree originated from off-ROW. Due to poor accessibility, no site visit was conducted at this time. NRS will visit as soon as conditions allow to collect the remaining info on this form.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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023
CDUS46 KOTX 141109
CLIGEG

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
309 AM PST THU JAN 14 2021

.....................................

...THE SPOKANE WA AIRPORT CLIMATE SUMMARY FOR JANUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1881 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
...
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         52    317 AM  53    1945  34      18        28
  MINIMUM         28   1045 PM -13    1909  25       3        16
  AVERAGE         40                        29      11        22

PRECIPITATION (IN)
  YESTERDAY       0.13          0.44 1886   0.06    0.07
0.05
                                     1950
  MONTH TO DATE   2.57                      0.83    1.74
1.19
  SINCE OCT 1     8.25                      6.61    1.64
5.54
  SINCE JAN 1     2.57                      0.83    1.74
1.19
```

SNOWFALL (IN)

YESTERDAY	0.0	8.0	1950	0.4	-0.4	1.7
MONTH TO DATE	T			6.0	-6.0	11.9
SINCE DEC 1	17.8			20.6	-2.8	22.4
SINCE JUL 1	34.8			28.1	6.7	29.9
SNOW DEPTH	0					

DEGREE DAYS

HEATING

YESTERDAY	25	36	-11	43
MONTH TO DATE	360	478	-118	393
SINCE DEC 1	1381	1645	-264	1365
SINCE JUL 1	2851	3312	-461	3157

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE DEC 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....
...

WIND (MPH)

HIGHEST WIND SPEED	53	HIGHEST WIND DIRECTION	SW (240)
HIGHEST GUST SPEED	71	HIGHEST GUST DIRECTION	SW (240)
AVERAGE WIND SPEED	28.1		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 0.4

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

HEAVY RAIN

LIGHT RAIN

FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	89	200 AM
LOWEST	49	1100 AM
AVERAGE	69	

.....

THE SPOKANE WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	34	50	1912 1973
MINIMUM TEMPERATURE (F)	25	-28	1888

SUNRISE AND SUNSET

JANUARY 14 2021	SUNRISE	734 AM PST	SUNSET	425 PM PST
JANUARY 15 2021	SUNRISE	733 AM PST	SUNSET	426 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated

BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/21/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Green Peter-Lebanon No. 1	**2/3 AHOL Left**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217273**	**14 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**28"**	**130'**

LOCATION OF TREE

Distance from Centerline **58'** Manage ROW Width **50'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	**5** %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Logging fringe. Strong wind and heavy rain caused the tree to uproot.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/21/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey No. 2	**28/3 AHOL Right**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217264**	**14 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**24"**	**130'**

LOCATION OF TREE

Distance from Centerline **64"** Manage ROW Width **62.5'**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	**5** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Strong wind and heavy rain caused the tree to uproot.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/21/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Blue River Tap	**1/2 AHOL Left**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2021	**217274**	**17 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
White Fir	**18"**	**110'**

LOCATION OF TREE

Distance from Centerline **60'** Manage ROW Width **50'**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground	**0** %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☑	Burn Scars
☐	Forks	☐	Multiple Stems	☑	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Strong wind and heavy rain caused the tree to uproot.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Marti	The Dalles	2/13/2021

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Knight - Ostrander	47/3

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021	217600	718 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	18"	100'

LOCATION OF TREE

Distance from Centerline 80' Manage ROW Width 75' from center

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

The Region experianced a significant Winter Strom 2-12 through 2-15. Multiple feet of snow was reported at the site. Winds where out of the north east at 14 mph during time of the outage. TLM reported that the tree had very little roots left and there was heavy snow on site.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



CLIMATE REPORT
NATIONAL WEATHER SERVICE
350 AM PST SUN FEB 14 2021

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1891 TO 2021

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	30	1159 PM	65	1992	51	-21	45
MINIMUM	25	458 AM	15	1905 1990	35	-10	31
AVERAGE	28				43	-15	38
PRECIPITATION (IN)							
YESTERDAY	0.19				0.14	0.05	0.13
MONTH TO DATE	2.19				2.15	0.04	0.75
DEGREE DAYS							
HEATING							
YESTERDAY	37						27
MONTH TO DATE	324						288
SINCE JUL 1	2546						2623
COOLING							
YESTERDAY	0						0
MONTH TO DATE	0						0
SINCE JAN 1	0						0

.....

WIND (MPH)			
HIGHEST WIND SPEED	18	HIGHEST WIND DIRECTION	E (110)
HIGHEST GUST SPEED	28	HIGHEST GUST DIRECTION	E (110)

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  AVERAGE WIND SPEED     8.6


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LT FREEZING RAIN
  SNOW
  LIGHT SNOW
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    78           400 AM
 LOWEST     66           100 PM
 AVERAGE    72

.....................................................


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   713 AM PST   SUNSET   537 PM PST
FEBRUARY 15 2021......SUNRISE   712 AM PST   SUNSET   538 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided

BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/16/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holder Creek	**5/4**

Date Outage Occurred	Outage ID	Duration of Outage
2/15/2021	**217635**	**5 hours and 17 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**28"**	**133'**

LOCATION OF TREE

Distance from Centerline **97** Manage ROW Width **100**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground	**0**	%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☑	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Burnt tree due to the Holiday fire in Sep. 2020. Tree burnt from the inside. Not obvious during DT patrol.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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CDUS46 KPQR 161202
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE
402 AM PST TUE FEB 16 2021

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...THE EUGENE OR CLIMATE SUMMARY FOR FEBRUARY 15 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1892 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	53	151 PM	68	1916	51	2	48
MINIMUM	44	1159 PM	18	1936	35	9	39
AVERAGE	49				43	6	44
PRECIPITATION (IN)							
YESTERDAY	0.07		2.70	1958	0.19	-0.12	0.53
MONTH TO DATE	3.03				2.94	0.09	0.85
SINCE OCT 1	21.99				28.61	-6.62	15.25
SINCE JAN 1	8.69				9.81	-1.12	7.44
SNOWFALL (IN)							
YESTERDAY	MM						
MONTH TO DATE	T						
SINCE DEC 1	T						
SINCE JUL 1	T						
DEGREE DAYS							
HEATING							
YESTERDAY	16				22	-6	21
MONTH TO DATE	336				340	-4	336
SINCE DEC 1	1646				1877	-231	1594
SINCE JUL 1	2631				3050	-419	2825
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

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.....

WIND (MPH)
  HIGHEST WIND SPEED    24   HIGHEST WIND DIRECTION    SW (240)
```

```
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED    11.8


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93           300 AM
 LOWEST     71          1200 PM
 AVERAGE    82

.....................................................


THE EUGENE OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   51        67      1930
 MINIMUM TEMPERATURE (F)   35        16      1956


SUNRISE AND SUNSET
FEBRUARY 16 2021......SUNRISE   710 AM PST   SUNSET   544 PM PST
FEBRUARY 17 2021......SUNRISE   709 AM PST   SUNSET   546 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/16/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-MASY	**19-6**

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021	**217567**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	**29"**	**120'**

LOCATION OF TREE

Distance from Centerline **90'** Manage ROW Width **50**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	**5**	%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This tree was growing on 12" of topsoil with clay hard pan underneath. Tree up rooted and a 30' root ball came with it due to the shallow soil and high winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



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Climatological Report (Daily)

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886
CDUS46 KSEW 140929
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
129 AM PST SUN FEB 14 2021

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1941 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	35	319 PM	63	2015	49	-14	44
MINIMUM	27	408 AM	15	1949	33	-6	31
AVERAGE	31				41	-10	38
PRECIPITATION (IN)							
YESTERDAY	0.44		2.19	1982	0.19	0.25	0.17
MONTH TO DATE	3.67				2.61	1.06	2.38
SINCE OCT 1	36.32				31.14	5.18	34.38
SINCE JAN 1	15.89				10.45	5.44	17.94
DEGREE DAYS							
HEATING							
YESTERDAY	34				24	10	27
MONTH TO DATE	341				313	28	322
SINCE DEC 1	1777				1919	-142	1705
SINCE JUL 1	3044				3364	-320	3186
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
RESULTANT WIND SPEED	3	RESULTANT WIND DIRECTION	SW (210)
HIGHEST WIND SPEED	17	HIGHEST WIND DIRECTION	S (200)
HIGHEST GUST SPEED	21	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	5.5		

SKY COVER

```
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  SNOW
  LIGHT SNOW
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96           400 PM
 LOWEST     85           100 PM
 AVERAGE    91

.....................................................


THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   49        61      1963
 MINIMUM TEMPERATURE (F)   33        16      1995


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   717 AM PST   SUNSET   535 PM PST
FEBRUARY 15 2021......SUNRISE   715 AM PST   SUNSET   537 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Covington**	**2/18/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU	**58-1**

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021	**217571**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	**14"**	**100'**

LOCATION OF TREE

Distance from Centerline **68'** Manage ROW Width **120'**

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**0** %		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

Tree failed because of root rot and High winds and snow. There are additional marked DT's around this tree that failed.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



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Climatological Report (Daily)

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886
CDUS46 KSEW 140929
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
129 AM PST SUN FEB 14 2021

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1941 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	35	319 PM	63	2015	49	-14	44
MINIMUM	27	408 AM	15	1949	33	-6	31
AVERAGE	31				41	-10	38
PRECIPITATION (IN)							
YESTERDAY	0.44		2.19	1982	0.19	0.25	0.17
MONTH TO DATE	3.67				2.61	1.06	2.38
SINCE OCT 1	36.32				31.14	5.18	34.38
SINCE JAN 1	15.89				10.45	5.44	17.94
DEGREE DAYS							
HEATING							
YESTERDAY	34				24	10	27
MONTH TO DATE	341				313	28	322
SINCE DEC 1	1777				1919	-142	1705
SINCE JUL 1	3044				3364	-320	3186
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
RESULTANT WIND SPEED	3	RESULTANT WIND DIRECTION	SW (210)
HIGHEST WIND SPEED	17	HIGHEST WIND DIRECTION	S (200)
HIGHEST GUST SPEED	21	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	5.5		

SKY COVER

```
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  SNOW
  LIGHT SNOW
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96           400 PM
 LOWEST     85           100 PM
 AVERAGE    91

.....................................................


THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   49        61      1963
 MINIMUM TEMPERATURE (F)   33        16      1995


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   717 AM PST   SUNSET   535 PM PST
FEBRUARY 15 2021......SUNRISE   715 AM PST   SUNSET   537 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	2/18/2021

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
RAVE-PAUL	11-4

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021	217547	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	16"	90'

LOCATION OF TREE

Distance from Centerline 85' Manage ROW Width 150'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	5 %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This was a selective harvest and two trees failed due to wind and root rot.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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Climatological Report (Daily)

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886
CDUS46 KSEW 140929
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
129 AM PST SUN FEB 14 2021

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1941 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	35	319 PM	63	2015	49	-14	44
MINIMUM	27	408 AM	15	1949	33	-6	31
AVERAGE	31				41	-10	38
PRECIPITATION (IN)							
YESTERDAY	0.44		2.19	1982	0.19	0.25	0.17
MONTH TO DATE	3.67				2.61	1.06	2.38
SINCE OCT 1	36.32				31.14	5.18	34.38
SINCE JAN 1	15.89				10.45	5.44	17.94
DEGREE DAYS							
HEATING							
YESTERDAY	34				24	10	27
MONTH TO DATE	341				313	28	322
SINCE DEC 1	1777				1919	-142	1705
SINCE JUL 1	3044				3364	-320	3186
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
RESULTANT WIND SPEED	3	RESULTANT WIND DIRECTION	SW (210)
HIGHEST WIND SPEED	17	HIGHEST WIND DIRECTION	S (200)
HIGHEST GUST SPEED	21	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	5.5		

SKY COVER

```
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  SNOW
  LIGHT SNOW
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96           400 PM
 LOWEST     85           100 PM
 AVERAGE    91

.....................................................


THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   49        61      1963
 MINIMUM TEMPERATURE (F)   33        16      1995


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   717 AM PST   SUNSET   535 PM PST
FEBRUARY 15 2021......SUNRISE   715 AM PST   SUNSET   537 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

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BPA F 4300.04a
(12-2020)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/23/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Driscoll-Naselle	**25/3**

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021		

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock		

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via http://www.noaa.gov/weather if applicable.)*

This is an incomplete report because when I tried to get down to the ROW I got stuck and had to winch myself out for the next hour and did not make it to the tree.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

```
633
CDUS46 KPQR 141150
CLIAST

CLIMATE REPORT
NATIONAL WEATHER SERVICE
350 AM PST SUN FEB 14 2021

.....

...THE ASTORIA OR CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1892 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	46	1247 PM	64	1931 2017	52	-6	47
MINIMUM	32	234 AM	21	1949	37	-5	35
AVERAGE	39				44	-5	41
PRECIPITATION (IN)							
YESTERDAY	0.95		2.31	1994	0.25	0.70	0.08
MONTH TO DATE	5.71				3.48	2.23	4.88
SINCE OCT 1	44.33				40.70	3.63	42.73
SINCE JAN 1	21.66				13.68	7.98	23.02
DEGREE DAYS							
HEATING							
YESTERDAY	26				21	5	24
MONTH TO DATE	314				273	41	292
SINCE DEC 1	1596				1625	-29	1537
SINCE JUL 1	2891				3038	-147	2854
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

```
.....

WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    35   HIGHEST GUST DIRECTION     E (100)
  AVERAGE WIND SPEED     9.5

SKY COVER
```

```
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FREEZING RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100           600 AM
 LOWEST     73          1200 PM
 AVERAGE    87

.....................................................


THE ASTORIA OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        64      1934
 MINIMUM TEMPERATURE (F)   37        22      1990


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   719 AM PST   SUNSET   541 PM PST
FEBRUARY 15 2021......SUNRISE   718 AM PST   SUNSET   542 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Deepinder Sandhu	**Longview**	**3/9/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St John - St Helen No. 1	**9/7**

Date Outage Occurred	Outage ID	Duration of Outage
2/15/2021	**217636**	**371 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* **SE**	☑	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**8"**	**75'**

LOCATION OF TREE

Distance from Centerline **58'** Manage ROW Width **50'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	**5** %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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000
CDUS46 KPQR 161202
CLIPDX

CLIMATE REPORT
NATIONAL WEATHER SERVICE
402 AM PST TUE FEB 16 2021

.....

...THE PORTLAND OR CLIMATE SUMMARY FOR FEBRUARY 15 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1940 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49    317 PM  64    2015  51     -2       47
  MINIMUM         30    443 AM  19    1956  36     -6       43
  AVERAGE         40                        44     -4       45

PRECIPITATION (IN)
  YESTERDAY       0.14          1.11 1970   0.13   0.01     0.51
  MONTH TO DATE   2.90                      1.98   0.92     1.23
  SINCE OCT 1    21.81                     20.98   0.83    16.23
  SINCE JAN 1     9.93                      6.86   3.07     8.81

SNOWFALL (IN)
  YESTERDAY       MM            2.3  1990
  MONTH TO DATE   9.6
  SINCE DEC 1     9.6
  SINCE JUL 1     9.6

DEGREE DAYS
```

```
  HEATING
   YESTERDAY       25                      21      4       20
   MONTH TO DATE  380                     328     52      321
   SINCE DEC 1   1649                    1823   -174     1581
   SINCE JUL 1   2521                    2792   -271     2615

  COOLING
   YESTERDAY        0                       0      0        0
   MONTH TO DATE    0                       0      0        0
   SINCE DEC 1      0                       0      0        0
   SINCE JAN 1      0                       0      0        0
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    24   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    31   HIGHEST GUST DIRECTION    SE (130)
  AVERAGE WIND SPEED    11.6


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  LT FREEZING RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    92           900 AM
 LOWEST     71           400 PM
 AVERAGE    82

.........................................................


THE PORTLAND OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   51        62      1981
 MINIMUM TEMPERATURE (F)   36        18      1956


SUNRISE AND SUNSET
FEBRUARY 16 2021......SUNRISE   710 AM PST   SUNSET   539 PM PST
FEBRUARY 17 2021......SUNRISE   708 AM PST   SUNSET   541 PM PST
```

```
-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Deepinder Sandhu	**Longview**	**2/26/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Driscoll - Astoria No 1	**20/2**

Date Outage Occurred	Outage ID	Duration of Outage
2/13/2021	**217595**	**2193 Minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* **E/SE**	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**14**	**84'**

LOCATION OF TREE

Distance from Centerline **60'** Manage ROW Width **50'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	**35** %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



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Climatological Report (Daily)

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633
CDUS45 KPQR 141150
CLIAST

CLIMATE REPORT
NATIONAL WEATHER SERVICE
350 AM PST SUN FEB 14 2021

.....

...THE ASTORIA OR CLIMATE SUMMARY FOR FEBRUARY 13 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1892 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	46	1247 PM	64	1931 2017	52	-6	47
MINIMUM	32	234 AM	21	1949	37	-5	35
AVERAGE	39				44	-5	41
PRECIPITATION (IN)							
YESTERDAY	0.95		2.31	1994	0.25	0.70	0.08
MONTH TO DATE	5.71				3.48	2.23	4.88
SINCE OCT 1	44.33				40.70	3.63	42.73
SINCE JAN 1	21.66				13.68	7.98	23.02
DEGREE DAYS							
HEATING							
YESTERDAY	26				21	5	24
MONTH TO DATE	314				273	41	292
SINCE DEC 1	1596				1625	-29	1537
SINCE JUL 1	2891				3038	-147	2854

```
 COOLING
  YESTERDAY        0                       0      0        0
  MONTH TO DATE    0                       0      0        0
  SINCE DEC 1      0                       0      0        0
  SINCE JAN 1      0                       0      0        0
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    35   HIGHEST GUST DIRECTION     E (100)
  AVERAGE WIND SPEED     9.5


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FREEZING RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100          600 AM
 LOWEST     73         1200 PM
 AVERAGE    87

.....................................................


THE ASTORIA OR CLIMATE NORMALS FOR TODAY
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        64      1934
 MINIMUM TEMPERATURE (F)   37        22      1990


SUNRISE AND SUNSET
FEBRUARY 14 2021......SUNRISE   719 AM PST   SUNSET   541 PM PST
FEBRUARY 15 2021......SUNRISE   718 AM PST   SUNSET   542 PM PST


-  INDICATES NEGATIVE NUMBERS.
```

```
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	3/31/2021

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic No. 1	29/7

Date Outage Occurred	Outage ID	Duration of Outage
3/29/2021	218025	271 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* NW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24"	105'

LOCATION OF TREE

Distance from Centerline 75' Manage ROW Width 100'

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground	5 %		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Healthy tree left isolated by recent logging activities. High winds combined with very wet, saturated soils caused the failure.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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Climatological Report (Daily)

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871
CDUS46 KOTX 290854
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
154 AM PDT MON MAR 29 2021

.....

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR MARCH 28 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	57	139 PM	MM	MM	53	4	50
MINIMUM	34	1159 PM	MM	MM	30	4	34
AVERAGE	46				41	5	42
PRECIPITATION (IN)							
YESTERDAY	0.04		MM	MM	0.08	-0.04	0.01
MONTH TO DATE	0.48				1.86	-1.38	0.41
SINCE OCT 1	12.29				13.91	-1.62	11.97
SINCE JAN 1	5.93				6.09	-0.16	6.13
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	19				24	-5	23
MONTH TO DATE	724				773	-49	795
SINCE MAR 1	724				773	-49	795
SINCE JUL 1	5645				6138	-493	5885
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
HIGHEST WIND SPEED	44	HIGHEST WIND DIRECTION	SW (210)
HIGHEST GUST SPEED	55	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	14.1		

```
SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.4


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    79           300 AM
 LOWEST     37           300 PM
 AVERAGE    58

.....................................................


THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   53        MM        MM
 MINIMUM TEMPERATURE (F)   30        MM        MM


SUNRISE AND SUNSET
MARCH 29 2021.........SUNRISE   633 AM PDT   SUNSET   716 PM PDT
MARCH 30 2021.........SUNRISE   631 AM PDT   SUNSET   717 PM PDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

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Climatological Report (Daily)

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000
CDUS46 KOTX 300927
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
227 AM PDT TUE MAR 30 2021

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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR MARCH 29 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 9999 TO 9999
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	45	453 PM	MM	MM	53	-8	55
MINIMUM	30	1159 PM	MM	MM	30	0	33
AVERAGE	38				42	-4	44
PRECIPITATION (IN)							
YESTERDAY	0.00		MM	MM	0.08	-0.08	0.03
MONTH TO DATE	0.48				1.94	-1.46	0.44
SINCE OCT 1	12.29				13.99	-1.70	12.00
SINCE JAN 1	5.93				6.17	-0.24	6.16
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	27				23	4	21
MONTH TO DATE	751				796	-45	816
SINCE MAR 1	751				796	-45	816
SINCE JUL 1	5672				6161	-489	5906
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)			
HIGHEST WIND SPEED	21	HIGHEST WIND DIRECTION	NW (310)
HIGHEST GUST SPEED	36	HIGHEST GUST DIRECTION	NW (320)
AVERAGE WIND SPEED	13.4		

```
SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.4


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    61           900 AM
 LOWEST     22           500 PM
 AVERAGE    42

.....................................................


THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   53        MM        MM
 MINIMUM TEMPERATURE (F)   31        MM        MM


SUNRISE AND SUNSET
MARCH 30 2021.........SUNRISE   631 AM PDT   SUNSET   717 PM PDT
MARCH 31 2021.........SUNRISE   629 AM PDT   SUNSET   719 PM PDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.





BPA F 4300.04a
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Daniel Misch	**Kalispell**	**4/20/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Lancaster-Noxon No 1	**40' BOL from 64/1**

Date Outage Occurred	Outage ID	Duration of Outage
4/18/2021	**218241**	**450 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **North with gusts up to 48mph**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**26"**	**75'**

LOCATION OF TREE

Distance from Centerline **82'** Manage ROW Width **104'**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground	**0** %		
☐	Right Side	On or Off ROW?	☑ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via https://w2.weather.gov/climate/ if applicable.)*

Healthy tree fell perpendicular into lines due to strong winds. Roots may have been weakened by adjacent decaying stump. This tree was the tallest tree at the top of steep slope. Photo 1 shows the failed root plate. Photo 2 shows the tree in relation to LANC-NOXN-1 facing Southwest.
The tree fell from an unoccupied portion of existing ROW that has been managed to pre-2007 vegetation management standards.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Photo 1:



Photo 2:



These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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279
CDUS45 KMSO 190738
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
138 AM MDT MON APR 19 2021

.....................................

...THE KALISPELL MT CLIMATE SUMMARY FOR APRIL 18 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1894 TO 2021
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	62	1222 PM	85	1936	57	5	51
MINIMUM	27	550 AM	11	1951	31	-4	36
AVERAGE	45				44	1	44
PRECIPITATION (IN)							
YESTERDAY	0.01		0.75	1993	0.04	-0.03	0.06
MONTH TO DATE	0.21				0.72	-0.51	0.54
SINCE OCT 1	8.77				8.11	0.66	5.98
SINCE JAN 1	3.11				4.11	-1.00	3.13
SNOWFALL (IN)							
YESTERDAY	T						
MONTH TO DATE	T						
SINCE MAR 1	1.8						
SINCE JUL 1	50.3						
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							

YESTERDAY	20	21	-1	21
MONTH TO DATE	404	409	-5	506
SINCE MAR 1	1230	1328	-98	1444
SINCE JUL 1	6796	7180	-384	6919

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE MAR 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

HIGHEST WIND SPEED	40	HIGHEST WIND DIRECTION	N (20)
HIGHEST GUST SPEED	48	HIGHEST GUST DIRECTION	N (20)
AVERAGE WIND SPEED	13.6		

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.5

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
SNOW
LIGHT SNOW
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	85	700 PM
LOWEST	31	100 PM
AVERAGE	58	

.....

THE KALISPELL MT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	57	79	1962
MINIMUM TEMPERATURE (F)	32	10	1951

SUNRISE AND SUNSET

APRIL 19 2021.....	SUNRISE	639 AM MDT	SUNSET	834 PM MDT
APRIL 20 2021.....	SUNRISE	637 AM MDT	SUNSET	836 PM MDT

```
-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**7/28/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Bandon-Rogue No. 1	**34/1 +190' AHOL**

Date Outage Occurred	Outage ID	Duration of Outage
7/23/2021	**219319**	**461 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☑ **Other:** **Human**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D Fir	**36"**	**110'**

LOCATION OF TREE

Distance from Centerline **53'** Manage ROW Width **100'**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

I did not talked with anyone on site during my inspection, but TLM did at the time of tree cut. Email included with this report

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This was result due to ground work done by landowner. BPA and Veg Mgmt. contractor also responded to danger tree emergency on July 14th, 2021 on the adjacent transmission line Fairview-Rogue, 54/2. See emails included with this report.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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000
CDUS46 KPQR 241146
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
446 AM PDT SAT JUL 24 2021

.....

...THE EUGENE OR CLIMATE SUMMARY FOR JULY 23 2021...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         89    342 PM 105    2006  86      3       82
  MINIMUM         49    454 AM  44    2008  52     -3       53
  AVERAGE         69                        69      0       68

PRECIPITATION (IN)
  YESTERDAY       0.00          0.21 2014   0.00   0.00     0.00
  MONTH TO DATE   0.01                      0.27  -0.26      T
  SINCE OCT 1    27.79                     39.00 -11.21    25.01
  SINCE JAN 1    14.49                     22.64  -8.15    17.20

SNOWFALL (IN)
  YESTERDAY       0.0
  MONTH TO DATE   0.0
  SINCE JUL 1     0.0

DEGREE DAYS
 HEATING
  YESTERDAY       0                         0      0        0
  MONTH TO DATE   0                        20    -20       12
  SINCE JUN 1    72                       166    -94      129
  SINCE JUL 1     0                        20    -20       12

 COOLING
  YESTERDAY       4                         5     -1        3
  MONTH TO DATE 113                        74     39       78
  SINCE JUN 1   258                        97    161      120
  SINCE JAN 1   261                       101    160      128
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION     N (10)
  HIGHEST GUST SPEED    27   HIGHEST GUST DIRECTION     N (360)
```

```
  AVERAGE WIND SPEED     9.2


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.1


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    86           500 AM
 LOWEST     15           300 PM
 AVERAGE    51

.....................................................


THE EUGENE OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   86       102      1928
 MINIMUM TEMPERATURE (F)   52        43      1917
                                             1973


SUNRISE AND SUNSET
JULY 24 2021.....SUNRISE   553 AM PDT   SUNSET   846 PM PDT
JULY 25 2021.....SUNRISE   554 AM PDT   SUNSET   844 PM PDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.







BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Covington**	**9/22/2021**

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
St Clair-South Tacoma No 1 230kV line	**15/1**

Date Outage Occurred	Outage ID	Duration of Outage
9/17/2021	**219998**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **southerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
cotton wood, doug fir	**CW33" DF20"**	**not able to get measurements**

LOCATION OF TREE

Distance from Centerline **CW 160' DF 111'** Manage ROW Width **67.5**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **0**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Large cotton wood tree fell into four other Doug Fir trees which fell into the conductor and caused the outage. All of the trees uprooted and did not show any signs of health issues.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Pendleton, OR

Climatological Report (Daily)

Issued by NWS


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000
CDUS46 KPDT 180035
CLIYKM

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON OR
535 PM PDT FRI SEP 17 2021

..............................

...THE YAKIMA WA CLIMATE SUMMARY FOR SEPTEMBER 17 2021...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1946 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         65    324 PM  95    1981  79    -14       81
  MINIMUM         43   1248 AM  30    1965  45     -2       50
  AVERAGE         54                       62     -8       66

PRECIPITATION (IN)
  TODAY           0.00          0.26 1986   0.01  -0.01     0.00
  MONTH TO DATE   0.24                      0.12   0.12        T
  SINCE OCT 1     5.01                      7.90  -2.89     3.78
  SINCE JAN 1     3.08                      4.96  -1.88     2.62

DEGREE DAYS
 HEATING
  TODAY           11                        4      7        8
  MONTH TO DATE   45                       49     -4       18
  SINCE SEP 1     45                       49     -4       18
  SINCE JUL 1     59                       82    -23       28

 COOLING
  TODAY            0                        1     -1        1
  MONTH TO DATE   30                       37     -7       65
  SINCE SEP 1     30                       37     -7       65
  SINCE JAN 1   1051                      596    455      724
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED     7   HIGHEST WIND DIRECTION    NW (310)
  HIGHEST GUST SPEED     9   HIGHEST GUST DIRECTION     S (180)
  AVERAGE WIND SPEED     2.6


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.3


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          1200 AM
 LOWEST     35          1100 AM
 AVERAGE    62

..................................................


THE YAKIMA WA CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   79        92       1952
 MINIMUM TEMPERATURE (F)   44        30       1988
```

```
SUNRISE AND SUNSET
SEPTEMBER 17 2021....SUNRISE   643 AM PDT   SUNSET   709 PM PDT
SEPTEMBER 18 2021....SUNRISE   644 AM PDT   SUNSET   707 PM PDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.



$$
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National Weather Service
Pendleton, OR Weather Forecast Office
2001 NW 56th Drive
Pendleton, OR 97801
(541) 276-7832
Page Author: PDT Webmaster
Web Master's E-mail: w-pdt.webmaster@noaa.gov
Page last modified: Jun 8th, 2021 18:51 UTC

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BPA F 4300 04a
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Deepinder Sandhu	**Longview**	**11/1/2021**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Cardwell-Cowlitz #1	**6/5**

Date Outage Occurred	Outage ID	Duration of Outage
10/24/2021	**220488**	**7 hours and 43 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **SW**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Alder	**30"**	**102'**

LOCATION OF TREE

Distance from Centerline **87'** Manage ROW Width **50'**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground **5**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR


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CDUS46 KPQR 242324
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
424 PM PDT SUN OCT 24 2021

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR OCTOBER 24 2021...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM        60   1206 PM  77    1904  60      0        51
  MINIMUM        52   1247 PM  30    1916  43      9        42
                                    1972
                                    1974
  AVERAGE        56                       52      4        47

PRECIPITATION (IN)
  TODAY          0.28                     0.14    0.14      T

DEGREE DAYS
 HEATING
  TODAY           9                                         18
  MONTH TO DATE  284                                       168
  SINCE SEP 1    344                                       206
  SINCE JUL 1    355                                       219

 COOLING
  TODAY           0                                         0
  MONTH TO DATE   0                                         6
  SINCE SEP 1    55                                       107
  SINCE JAN 1   698                                       533
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    21   HIGHEST WIND DIRECTION    SW (240)
  HIGHEST GUST SPEED    34   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED     9.4


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.8


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    86          900 AM
 LOWEST     67         1200 PM
 AVERAGE    77

.....


THE VANCOUVER WA CLIMATE NORMALS FOR TOMORROW
                       NORMAL    RECORD    YEAR
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```
 MAXIMUM TEMPERATURE (F)   60        77      1984
 MINIMUM TEMPERATURE (F)   43        25      1919


SUNRISE AND SUNSET
OCTOBER 24 2021.....SUNRISE   740 AM PDT   SUNSET   609 PM PDT
OCTOBER 25 2021.....SUNRISE   741 AM PDT   SUNSET   607 PM PDT


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.



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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 28th, 2021 13:49 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Covington**	**11/11/2021**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Covington-Bettas Road No 1 / 230KV	**9/4**

Date Outage Occured	Outage ID	Duration of Outage
11/8/2021	**220670**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Northerly**	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**19" DBH**	**90'**

LOCATION OF TREE

Distance from Centerline **99'** Manage ROW Width **62.5'**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **12** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This tree is showing signs of advanced laminated Root rot.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



NATIONAL WEATHER SERVICE

Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol mpia, WA
WFO Seattle, WA
illa te Airport, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 13 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Oldest | Click for access to archived data.

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CDUS46 KSEW 080930
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
130 AM PST MON NOV 08 2021

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 7 2021...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2021

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         47   1127 AM  66    2016  54      -7       44
  MINIMUM         40    235 AM  28    1945  43      -3       36
  AVERAGE         44                        48      -4       40

PRECIPITATION (IN)
  YESTERDAY      0.50          1.93 1995    0.20    0.30     0.01
  MONTH TO DATE  2.42                       1.36    1.06     1.41
  SINCE OCT 1    8.18                       5.27    2.91     3.99
  SINCE JAN 1   31.41                      28.67    2.74    30.50

SNOWFALL (IN)
  YESTERDAY      MM             T    1945                    0.0
  MONTH TO DATE   0.0                                       0.0
  SINCE OCT 1     0.0                                       0.0
  SINCE JUL 1     0.0                                       0.0
  SNOW DEPTH     MM

DEGREE DAYS
 HEATING
  YESTERDAY       21                        17      4       25
  MONTH TO DATE  113                       114     -1       98
  SINCE SEP 1    626                       565     61      472
  SINCE JUL 1    665                       620     45      507

 COOLING
  YESTERDAY       0                         0      0        0
```

```
  MONTH TO DATE    0                        0      0       0
  SINCE SEP 1     23                       30     -7      71
  SINCE JAN 1    377                      263    114     332
.....

WIND (MPH)
  RESULTANT WIND SPEED  11   RESULTANT WIND DIRECTION   S (180)
  HIGHEST WIND SPEED    24   HIGHEST WIND DIRECTION     S (170)
  HIGHEST GUST SPEED    35   HIGHEST GUST DIRECTION     S (170)
  AVERAGE WIND SPEED    12.3

SKY COVER
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          700 PM
 LOWEST     71         1100 AM
 AVERAGE    82

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   54        70      2016
 MINIMUM TEMPERATURE (F)   42        26      1945

SUNRISE AND SUNSET
NOVEMBER  8 2021.....SUNRISE   704 AM PST   SUNSET   441 PM PST
NOVEMBER  9 2021.....SUNRISE   706 AM PST   SUNSET   440 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Loren Cummings	Kalispell	11/16/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Libby - Bonner's Ferry NO. 1 115 kV	35/8, 37/6, & 41/3

Date Outage Occurred	Outage ID	Duration of Outage
11/15/2021	220775 / 220801	12 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* unknown	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	14"	75'

LOCATION OF TREE

Distance from Centerline 65 feet — Manage ROW Width 100 feet

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Strong winds caused multiple tree fall in outages due with cold front associated with atmospheric river event that occurred Monday 11/15/2021 - Tuesday 11/16/21.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







NATIONAL WEATHER SERVICE

Climate

Missoula, MT
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)

Storm Event Database (NCEI)

2. Choose a Location

Missoula, MT
alispell, MT
ulte, MT

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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CDUS45 KMSO 151540
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
840 AM MST MON NOV 15 2021

.....

...THE MISSOULA MT CLIMATE SUMMARY FOR NOVEMBER 15 2021...
VALID AS OF 0800 AM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1893 TO 2021

WEATHER ITEM   OBSERVED RECORD YEAR NORMAL
                VALUE   VALUE       VALUE
.....
TEMPERATURE (F)
 TODAY
  MINIMUM         40    -13    1955  25

PRECIPITATION (IN)
  TODAY            0.00

.....


SUNRISE AND SUNSET
NOVEMBER 15 2021.....SUNRISE   740 AM MST   SUNSET   502 PM MST
NOVEMBER 16 2021.....SUNRISE   741 AM MST   SUNSET   500 PM MST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Loren Cummings	Kalispell	11/16/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Libby - Bonner's Ferry NO. 1 115 kV	35/8, 37/6, & 41/3

Date Outage Occurred	Outage ID	Duration of Outage
11/15/2021	220775 / 220801	12 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* unknown	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	14"	75'

LOCATION OF TREE

Distance from Centerline 65 feet — Manage ROW Width 100 feet

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Strong winds caused multiple tree fall in outages due with cold front associated with atmospheric river event that occurred Monday 11/15/2021 - Tuesday 11/16/21.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







NATIONAL WEATHER SERVICE

Climate

Weather.gov > Missoula, MT > Climate

Missoula, MT
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)

Storm Event Database (NCEI)

2. Choose a Location

Missoula, MT
alispell, MT
ulte, MT

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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CDUS45 KMSO 151540
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
840 AM MST MON NOV 15 2021

.....

...THE MISSOULA MT CLIMATE SUMMARY FOR NOVEMBER 15 2021...
VALID AS OF 0800 AM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1893 TO 2021

WEATHER ITEM   OBSERVED RECORD YEAR NORMAL
                VALUE   VALUE       VALUE
.....
TEMPERATURE (F)
 TODAY
  MINIMUM         40    -13    1955  25

PRECIPITATION (IN)
  TODAY            0.00

.....


SUNRISE AND SUNSET
NOVEMBER 15 2021.....SUNRISE   740 AM MST   SUNSET   502 PM MST
NOVEMBER 16 2021.....SUNRISE   741 AM MST   SUNSET   500 PM MST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	Snohomish	11/18/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Murray_Custer#1 / 230KV	3/8

Date Outage Occured	Outage ID	Duration of Outage
11/15/2021	220737	72 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	26in & 24in	120ft & 105ft

LOCATION OF TREE

Distance from Centerline 105 & 115ft — Manage ROW Width 62.5

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Two large hemlocks up-rooted and landed on the line. The area behind the trees was recently cleared for a house. The combination of saturated soils, high winds, and recent logging contributed to the outage. Area is wet and it took TLM two days to build a road to repair.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NATIONAL WEATHER SERVICE

Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol mpia, WA
WFO Seattle, WA
illa te Airport, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 160219
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
619 PM PST MON NOV 15 2021

.....................................

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 15 2021...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2021

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM        62R  1023 AM  62    2001  52     10        53
  MINIMUM        45    459 PM   6    1955  41      4        46
  AVERAGE        54                       47      7        50

PRECIPITATION (IN)
  TODAY           0.20          1.09 2007   0.22  -0.02     0.20
  MONTH TO DATE   7.09                      3.09   4.00     3.14
  SINCE OCT 1    12.85                      7.00   5.85     5.72
  SINCE JAN 1    36.08                     30.40   5.68    32.23

SNOWFALL (IN)
  TODAY           0.0           0.2  1975                  0.0
  MONTH TO DATE   0.0                                      0.0
  SINCE OCT 1     0.0                                      0.0
  SINCE JUL 1     0.0                                      0.0
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  TODAY           11                        18     -7       15
  MONTH TO DATE  224                       255    -31      268
  SINCE SEP 1    737                       706     31      642
  SINCE JUL 1    776                       761     15      677

 COOLING
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  TODAY            0                          0      0       0
  MONTH TO DATE    0                          0      0       0
  SINCE SEP 1     23                         30     -7      71
  SINCE JAN 1    377                        263    114     332
.......................................................................

WIND (MPH)
  RESULTANT WIND SPEED  23   RESULTANT WIND DIRECTION   S (200)
  HIGHEST WIND SPEED    44   HIGHEST WIND DIRECTION     S (200)
  HIGHEST GUST SPEED    58   HIGHEST GUST DIRECTION     S (190)
  AVERAGE WIND SPEED    23.7

SKY COVER
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          100 PM
 LOWEST     62          800 AM
 AVERAGE    76

.........................................................

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        68       1965
 MINIMUM TEMPERATURE (F)   41        21       1955

SUNRISE AND SUNSET
NOVEMBER 15 2021......SUNRISE   714 AM PST   SUNSET   433 PM PST
NOVEMBER 16 2021......SUNRISE   716 AM PST   SUNSET   432 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	11/16/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-STCR no 1	1/2

Date Outage Occured	Outage ID	Duration of Outage
11/15/2021	220745	30hr

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* east	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug firs 3	23 to 18"	110

LOCATION OF TREE

Distance from Centerline 80' Manage ROW Width 125'

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site desciption (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

These trees appeared to be very healthy and had complete root failure due to saturated soils and gusting winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NATIONAL WEATHER SERVICE

Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol mpia, WA
WFO Seattle, WA
illa te Airport, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 160219
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
619 PM PST MON NOV 15 2021

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 15 2021...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2021

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         58   1008 AM  61    2001  51       7        52
  MINIMUM         45    459 PM  -1    1955  36       9        43
  AVERAGE         52                        43       9        48

PRECIPITATION (IN)
  TODAY          0.55           1.35 1973   0.28    0.27      0.21
  MONTH TO DATE  8.21                       3.97    4.24      5.36
  SINCE OCT 1   13.60                       9.04    4.56      9.60
  SINCE JAN 1   46.02                      38.53    7.49     42.08

DEGREE DAYS
 HEATING
  TODAY          13                         22      -9        17
  MONTH TO DATE  264                       305     -41       318
  SINCE SEP 1    888                       942     -54       808
  SINCE JUL 1    974                      1082    -108       940

 COOLING
  TODAY           0                         0       0         0
  MONTH TO DATE   0                         0       0         0
  SINCE SEP 1    11                         8       3        19
  SINCE JAN 1   248                       113     135       146
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WIND (MPH)
  RESULTANT WIND SPEED  18   RESULTANT WIND DIRECTION   S (200)
  HIGHEST WIND SPEED    35   HIGHEST WIND DIRECTION     S (160)
  HIGHEST GUST SPEED    55   HIGHEST GUST DIRECTION     S (170)
  AVERAGE WIND SPEED    19.9


SKY COVER
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    97           200 AM
 LOWEST     71           400 PM
 AVERAGE    84

.....


THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)   50         64       1949
 MINIMUM TEMPERATURE (F)   36         16       2014


SUNRISE AND SUNSET
NOVEMBER 15 2021.....SUNRISE   715 AM PST   SUNSET   437 PM PST
NOVEMBER 16 2021.....SUNRISE   717 AM PST   SUNSET   436 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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31370397 BPA-2025-03068-F 0625









BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/17/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Albeni Falls - Sand Creek #1 / 115KV	4/3

Date Outage Occured	Outage ID	Duration of Outage
11/15/2021	220756	307

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SW to NE	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir and lodgepole pine	34" and 24"	117' and 90'

LOCATION OF TREE

Distance from Centerline 60' and 63' Manage ROW Width 100

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Two trees fell in same span, in golf course, no visible defects on trees. Several trees in the area fell during the storm.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





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CDUS46 KOTX 160831
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1231 AM PST TUE NOV 16 2021

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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 15 2021...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	59	338 PM	MM	MM	42	17	43
MINIMUM	37	1147 PM	MM	MM	27	10	33
AVERAGE	48				34	14	38
PRECIPITATION (IN)							
YESTERDAY	0.01		MM	MM	0.09	-0.08	0.06
MONTH TO DATE	1.56				1.32	0.24	1.31
SINCE OCT 1	3.23				3.32	-0.09	3.56
SINCE JAN 1	12.75				18.01	-5.26	18.40
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	17				31	-14	27
MONTH TO DATE	353				431	-78	445
SINCE SEP 1	1176				1319	-143	1286
SINCE JUL 1	1243				1444	-201	1410
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	4				14	-10	17

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  SINCE JAN 1    566                        216    350      219
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    39   HIGHEST WIND DIRECTION    SW (240)
  HIGHEST GUST SPEED    53   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED    18.0


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.1


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    77           200 AM
 LOWEST     40           300 PM
 AVERAGE    59

.........................................................


THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   42        MM        MM
 MINIMUM TEMPERATURE (F)   27        MM        MM


SUNRISE AND SUNSET
NOVEMBER 16 2021......SUNRISE   658 AM PST   SUNSET   411 PM PST
NOVEMBER 17 2021......SUNRISE   659 AM PST   SUNSET   409 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/17/2021

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Taft-Bell #1 (500kV)	38/3

Date Outage Occurred	Outage ID	Duration of Outage
11/15/2021	220822	1211 Mins

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SW to NE	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
grand fir	26"	105

LOCATION OF TREE

Distance from Centerline 70 Manage ROW Width 105

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was healthy, in good condition. Left standing after recent logging activity, selective cut next to ROW. High winds caused tree to fall.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



National Weather Service Weather Forecast Office

Spokane, WA

Climatological Report (Daily)

Issued by NWS Spokane, WA

Home | Current Version | Previous Version | Text Only | Print | Product List | Glossary On
Versions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 **48** 49 50

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CDUS46 KOTX 160545
CLIGEG

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
945 PM PST MON NOV 15 2021

.....

...THE SPOKANE WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 15 2021...
VALID TODAY AS OF 0900 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1881 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         58    332 PM  60    1896  42     16       47
  MINIMUM         41    759 PM -11    1955  31     10       33
  AVERAGE         50                        36     14       40

PRECIPITATION (IN)
  TODAY           0.06          0.69 1915   0.07  -0.01      T
  MONTH TO DATE   1.53                      0.98   0.55     1.14
  SINCE OCT 1     2.70                      2.35   0.35     2.88
  SINCE JAN 1     9.09                     13.92  -2.95    12.49

DEGREE DAYS
 HEATING
  TODAY           15                        29    -14       25
  MONTH TO DATE  333                       395    -62      405
  SINCE SEP 1    964                      1089   -125     1017
  SINCE JUL 1    989                      1143   -154     1049

 COOLING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE SEP 1    42                        46     -4       69
  SINCE JAN 1   919                       515    404      597
-------------------------------------------------------------------

WIND (MPH)
  HIGHEST WIND SPEED    48   HIGHEST WIND DIRECTION    SW (230)
  HIGHEST GUST SPEED    62   HIGHEST GUST DIRECTION    SW (240)
  AVERAGE WIND SPEED    23.2

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    77          100 AM
 LOWEST     39          200 PM
 AVERAGE    58

.....

THE SPOKANE WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   42        61      1919
 MINIMUM TEMPERATURE (F)   30        -6      1955
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SUNRISE AND SUNSET
NOVEMBER 15 2021.....SUNRISE   656 AM PST   SUNSET   413 PM PST
NOVEMBER 16 2021.....SUNRISE   657 AM PST   SUNSET   412 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.



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National Weather Service
Spokane, WA Weather Forecast Office
2601 N Rambo Rd
Spokane, WA 99224
509-244-0110
Page Author: OTX Webmaster
Web Master's E-mail: w-otx.webmaster@noaa.gov
Page last modified: Nov 18th, 2021 21:12 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Scott Williams	The Dalles	1/1/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville - Midway / 230KV	34/6

Date Outage Occured	Outage ID	Duration of Outage
12/31/2021	221256	18hr 14 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	40	160

LOCATION OF TREE

Distance from Centerline 140 Manage ROW Width 82.5 feet

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree failed because of root rot and heavy snow load.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NATIONAL WEATHER SERVICE

Climate

Pendleton, OR
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Pendleton, Oregon
Redmond, Oregon
allesport, Washington
llens g, Washington
Pasco, Washington
akima, Washington
Walla Walla, Washington
ermiston, Oregon

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KPDT 310035
CLIYKM

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
435 PM PST THU DEC 30 2021

.....................................

...THE YAKIMA WA CLIMATE SUMMARY FOR DECEMBER 30 2021...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1946 TO 2021

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         26    241 PM  53    2017  37    -11       34
  MINIMUM         13    608 AM -10    1968  23    -10       30
  AVERAGE         20                        30    -10       32

PRECIPITATION (IN)
  TODAY            T              0.57 2005   0.05  -0.05     0.05
  MONTH TO DATE    0.52                       1.40  -1.08     0.58
  SINCE OCT 1      2.82                       2.90  -0.08     1.93
  SINCE JAN 1      6.09                       7.97  -1.88     4.61

DEGREE DAYS
 HEATING
  TODAY           45                         35     10       33
  MONTH TO DATE  958                        1027    -69      953
  SINCE DEC 1    958                        1027    -69      953
  SINCE JUL 1   2247                        2470   -223     2229

 COOLING
  TODAY            0                          0      0        0
  MONTH TO DATE    0                          0      0        0
  SINCE DEC 1      0                          0      0        0
  SINCE JAN 1   1053                         606    447      729
.....................................................................
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WIND (MPH)
  HIGHEST WIND SPEED    18   HIGHEST WIND DIRECTION     N (10)
  HIGHEST GUST SPEED    23   HIGHEST GUST DIRECTION     N (10)
  AVERAGE WIND SPEED    5.5

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.6

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY,
  LIGHT SNOW
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    87           600 AM
 LOWEST     57           300 PM
 AVERAGE    72

.....

THE YAKIMA WA CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    37        55      1954
 MINIMUM TEMPERATURE (F)    23        -7      1978

SUNRISE AND SUNSET
DECEMBER 30 2021.....SUNRISE   746 AM PST   SUNSET   424 PM PST
DECEMBER 31 2021.....SUNRISE   746 AM PST   SUNSET   425 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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31370406 BPA-2025-03068-F 0641



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Scott Williams	The Dalles	1/4/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Knight - Ostrander 500kv	72/2 BOL 60'

Date Outage Occured	Outage ID	Duration of Outage
1/3/2022	221312	1193 minuets

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	28	100

LOCATION OF TREE

Distance from Centerline 80 Manage ROW Width 72.5

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

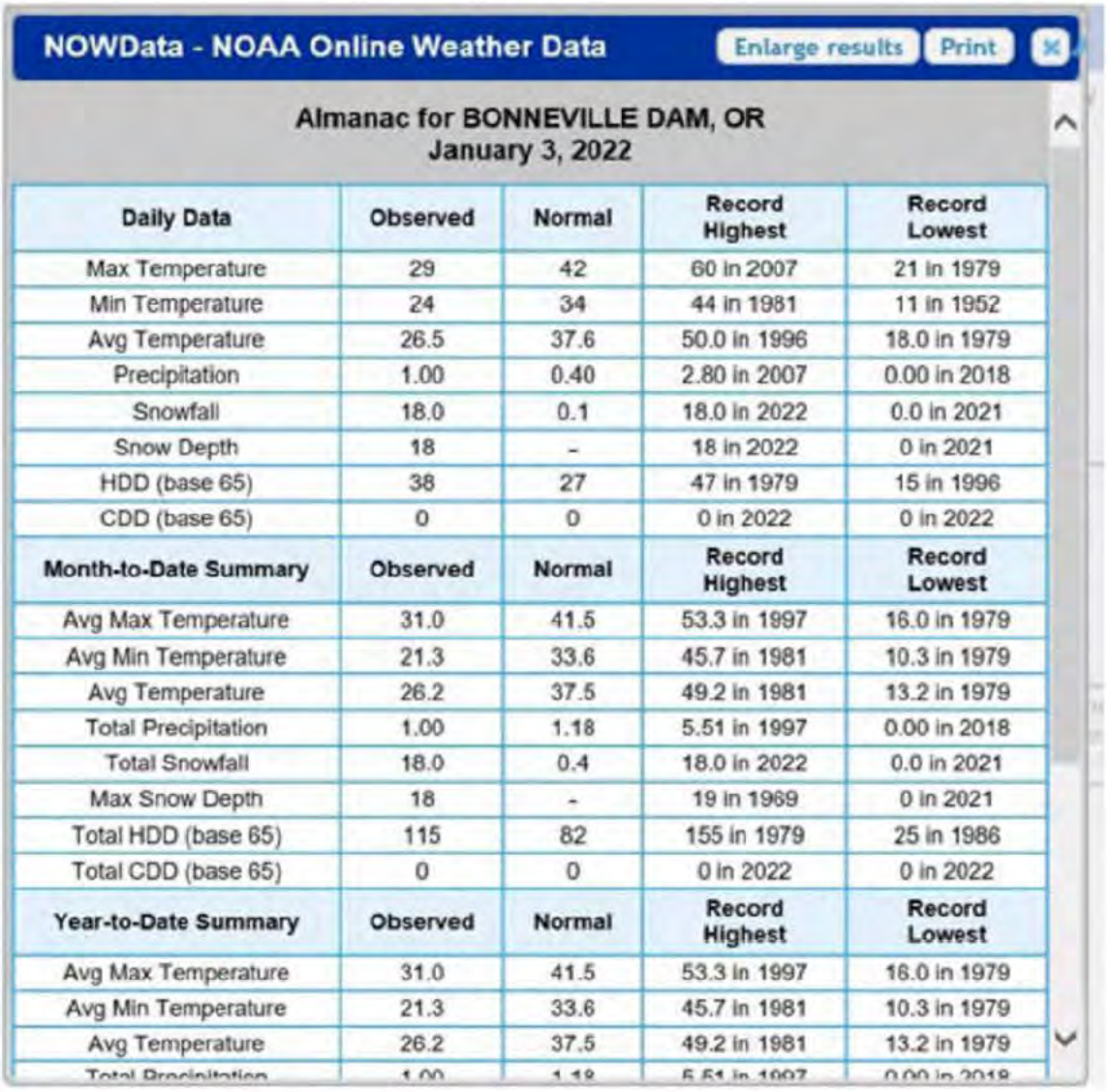
If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree failed because of root rot and heavy snow load.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



NOWData - NOAA Online Weather Data

Enlarge results | Print

Almanac for BONNEVILLE DAM, OR
January 3, 2022

Daily Data	Observed	Normal	Record Highest	Record Lowest
Max Temperature	29	42	60 in 2007	21 in 1979
Min Temperature	24	34	44 in 1981	11 in 1952
Avg Temperature	26.5	37.6	50.0 in 1996	18.0 in 1979
Precipitation	1.00	0.40	2.80 in 2007	0.00 in 2018
Snowfall	18.0	0.1	18.0 in 2022	0.0 in 2021
Snow Depth	18	-	18 in 2022	0 in 2021
HDD (base 65)	38	27	47 in 1979	15 in 1996
CDD (base 65)	0	0	0 in 2022	0 in 2022
Month-to-Date Summary	**Observed**	**Normal**	**Record Highest**	**Record Lowest**
Avg Max Temperature	31.0	41.5	53.3 in 1997	16.0 in 1979
Avg Min Temperature	21.3	33.6	45.7 in 1981	10.3 in 1979
Avg Temperature	26.2	37.5	49.2 in 1981	13.2 in 1979
Total Precipitation	1.00	1.18	5.51 in 1997	0.00 in 2018
Total Snowfall	18.0	0.4	18.0 in 2022	0.0 in 2021
Max Snow Depth	18	-	19 in 1969	0 in 2021
Total HDD (base 65)	115	82	155 in 1979	25 in 1986
Total CDD (base 65)	0	0	0 in 2022	0 in 2022
Year-to-Date Summary	**Observed**	**Normal**	**Record Highest**	**Record Lowest**
Avg Max Temperature	31.0	41.5	53.3 in 1997	16.0 in 1979
Avg Min Temperature	21.3	33.6	45.7 in 1981	10.3 in 1979
Avg Temperature	26.2	37.5	49.2 in 1981	13.2 in 1979
Total Precipitation	1.00	1.18	5.51 in 1997	0.00 in 2018







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/11/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No. 1 / 115KV	8/5

Date Outage Occured	Outage ID	Duration of Outage
12/31/2021	221250	222 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SSW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☑ **Other:** Snow

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	25"	98'

LOCATION OF TREE

Distance from Centerline 54' Manage ROW Width 50' from center

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree failure due to snow, wind and saturated soil. Two additional trees have been identified as potential DT's and are scheduled to be removed during SM starting in a week or two.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR

Home | Current Version | Previous Version | Text Only | Print | Product List | Glossary On
Versions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 **36** 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
440 PM PST THU DEC 30 2021

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...THE EUGENE OR CLIMATE SUMMARY FOR DECEMBER 30 2021...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2021


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM        43    334 PM  66    1980  46     -3       49
  MINIMUM        32    128 AM  10    1978  34     -2       40
  AVERAGE        38                        40     -2       45

PRECIPITATION (IN)
  TODAY           0.11          2.45 2005   0.22  -0.09     0.53
  MONTH TO DATE  11.08                      7.00   4.08     6.37
  SINCE OCT 1    19.01                     16.15   2.86    13.22
  SINCE JAN 1    36.95                     40.62  -4.57    33.22

SNOWFALL (IN)
  TODAY          MM
  MONTH TO DATE  10.1
  SINCE JUL 1    10.1

DEGREE DAYS
 HEATING
  TODAY          27                        25      2       20
  MONTH TO DATE  691                      734    -43      667
  SINCE DEC 1    691                      734    -43      667
  SINCE JUL 1   1586                     1831   -245     1652

 COOLING
  TODAY           0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1   601                      291    308      404
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    18   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    21   HIGHEST GUST DIRECTION     S (190)
  AVERAGE WIND SPEED    10.5


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  LIGHT SNOW
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    92          1100 AM
 LOWEST     82           500 AM
 AVERAGE    87
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THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        62      1996
 MINIMUM TEMPERATURE (F)   34        10      1978

SUNRISE AND SUNSET
DECEMBER 30 2021.....SUNRISE   748 AM PST   SUNSET   444 PM PST
DECEMBER 31 2021.....SUNRISE   748 AM PST   SUNSET   444 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-gov.webmaster@noaa.gov
Page last modified: Nov 18th, 2021 21:12 UTC

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12/30/21

Called 930am to go look in Salem's area for issue on Timber Tap 115kV line. Had no Salem guys available.

NW, KS, SM, AE, AN all responded.

Found tree in line at 6/4 span pinning down all 3 conductors.

B to C phase fault 15.7 miles from Forest Grove.

6/4 B pole broken at groundline, (Through Bored) 50' pole replaced not long ago. New style steel Xbraces.

No.1 and 2 positions wire had bad stranding, roughly 8 strands per phase. (Partridge)

Access seems good, may need dozer to help up hill or use chains.

Recommend...

Change or secure broken pole first. Let 1 and 2 positions off to ground and catch off.

Let wire off at 6/5, cut and let off in span to be able to access damage. Use gritted rod to repair.

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Nick Wenzl	12/30/2021

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Timber Tap	6/4
Date Outage Occurred	**Duration of Outage**
12/30/21	12 hours or so?

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☒	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	24"	150ft

LOCATION OF TREE

Distance from Centerline 300ft?

☐	Uphill	☒	Left Side		
☒	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☒ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

Loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Heavy snow and maybe some winds caused this tree to go over. in a small canyon, had to cut it into multiple pieces to get it off the wire.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Deepinder Sandhu	Longview	1/12/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Ostrander-Pearl #1/ 500kv	6/3

Date Outage Occured	Outage ID	Duration of Outage
1/7/2022	221421	7 hours and 12 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SSW	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	23"	125'

LOCATION OF TREE

Distance from Centerline 96' Manage ROW Width 75' from Center

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 35 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was a part of a logging fringe left exposed to the wind.

https://www.wrh.noaa.gov/mesowest/timeseries.php?sid=KUAO&wfo=pqr&num=168

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
422 PM PST FRI JAN 07 2022

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...THE AURORA STATE OR CLIMATE SUMMARY FOR JANUARY 7 2022...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999


WEATHER ITEM   OBSERVED TIME       LAST
                VALUE   (LST)      YEAR
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM         53    553 AM
  MINIMUM         44    359 PM

PRECIPITATION (IN)
  TODAY           0.10            0.00
  MONTH TO DATE   3.17            2.76
  SINCE OCT 1    22.71           16.43
  SINCE JAN 1     3.17            2.76

DEGREE DAYS
 HEATING
  TODAY           16              19
  MONTH TO DATE  168             119
  SINCE DEC 1    904             682
  SINCE JUL 1   1776            1752

 COOLING
  TODAY           0               0
  MONTH TO DATE   0               0
  SINCE DEC 1     0               0
  SINCE JAN 1     0               0
.....


WIND (MPH)
  HIGHEST WIND SPEED    36   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    48   HIGHEST GUST DIRECTION     S (180)
  AVERAGE WIND SPEED    15.8


SKY COVER
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    98           100 AM
 LOWEST     61           200 PM
 AVERAGE    77

.....


SUNRISE AND SUNSET
JANUARY  7 2022.....SUNRISE   758 AM PST   SUNSET   446 PM PST
JANUARY  8 2022.....SUNRISE   749 AM PST   SUNSET   447 PM PST
```

```
-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


$$
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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Nov 18th, 2021 21:12 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/18/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lookout Point-Alvey No. 1 / 115KV	4/6

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2022	221490	271 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)* SSW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the TO or GO or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	25"	128'

LOCATION OF TREE

Distance from Centerline 113' Manage ROW Width 50' from center

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☑ YES ☐ NO

NRS (Carlos Mora) met with Logger (b) (6) and TLM on site on 1/18/22. Logger explained the situation and is the same as in TLM Report (see attached to this document).

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Logger did not notify BPA prior to any logging activities . I took this opportunity to explain and go over the Logging Safely Around High-Voltage Power Lines pamphlet and the Guidelines For Logging Activities on or Near BPA Rights-of-Way.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR

Home | Current Version | Previous Version | Text Only | Print | Product List | Glossary On
Versions: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 **18** 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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CDUS46 KPQR 140239
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
639 PM PST THU JAN 13 2022

.....

...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 13 2022...
VALID TODAY AS OF 0600 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         52    454 PM  62    1968  48      4       61
  MINIMUM         44    256 AM  10    1949  35      9       41
  AVERAGE         48                        41      7       51

PRECIPITATION (IN)
  TODAY           0.11          4.15 1995   0.10  0.09     0.05
  MONTH TO DATE   3.58                      2.73  0.85     4.19
  SINCE OCT 1    22.64                     19.09  3.55    17.49
  SINCE JAN 1     3.58                      2.73  0.85     4.19

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUL 1    10.1

DEGREE DAYS
 HEATING
  TODAY           17                        24     -7       14
  MONTH TO DATE  265                       314    -49      226
  SINCE DEC 1    983                      1072    -89      910
  SINCE JUL 1   1878                      2169   -291     1895

 COOLING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE DEC 1     0                         0      0        0
  SINCE JAN 1     0                         0      0        0
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    17   HIGHEST WIND DIRECTION     S (180)
  HIGHEST GUST SPEED    22   HIGHEST GUST DIRECTION    SW (210)
  AVERAGE WIND SPEED    11.2


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          100 PM
 LOWEST     74         1200 AM
 AVERAGE    84
```

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	48	69	1968 1974
MINIMUM TEMPERATURE (F)	35	15	1987

SUNRISE AND SUNSET
JANUARY 13 2022.....SUNRISE 746 AM PST SUNSET 458 PM PST
JANUARY 14 2022.....SUNRISE 745 AM PST SUNSET 459 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Portland, OR Weather Forecast Office
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Web Master's E-mail: w-pqr.webmaster@noaa.gov
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1519 PPT: The Lookout Point-Alvey #1 115kv line relayed to lockout forcing off Dexter P.H. (15mw) and approximately 16MW load lost (lane Electric and Emerald PUD). Emerald PUD reports logging truck may have contacted the line, no reports of any injuries at this time. Operations and TLM both responding.

1619 PPT: Fault has been isolated to the Dexter-Pleasant Hill section, Alvey and Lookout Point terminals closed picking up all customer load and Dexter PH generation restored to normal. TLM will be getting a clearance to remove a tree in the 5 mile.

(b) (6) called and reported logger got tree top hung up in line. Address into location is 39036 Place Rd. Puts it in the 5 mile.

Logging activity in 4/6 span.

Logger stated while pushing and cutting a tree with a feller buncher the tree fell and the top broke which casused it to fly back towards the line causing the 6-8 inch top to land on no.1 and 2 position approximately 500ft AOL Left of 4/6.

TLM arrived on scene and removed the tree top. No damage detected. Discussed Powerline Safety with the logger and will follow up next week when back at work and more information is available. The tree being cut was 110ft from centerline. 22" base, 6" top, 115ft tall.

Logger Name: (b) (6)















BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	2/18/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU 287kV	67/3

Date Outage Occurred	Outage ID	Duration of Outage
12/30/2021	221244	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18"	120'

LOCATION OF TREE

Distance from Centerline 85' Manage ROW Width 62.5'

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 80 %			
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☑	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This tree failed because it was growing on the uphillside of the road cut back, combined with this and the heavy snow load the entire tree uprooted. This entire area was hit very hard with the snow load and many tree failures are all over the area. Access road is still impassible from the 67/3 ahead on line.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



National Weather Service Weather Forecast Office

Seattle/Tacoma, WA

Climatological Report (Daily)

Issued by NWS


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000
CDUS46 KSEW 250218
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
618 PM PST MON JAN 24 2022

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 24 2022...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         39    332 PM  58    1995  49    -10       41
                                      2015
  MINIMUM         34    751 AM  10    1950  38     -4       38
  AVERAGE         37                        43     -6       40

PRECIPITATION (IN)
  TODAY           0.00          1.36 1984   0.18  -0.18     0.18
  MONTH TO DATE   6.78                      4.56   2.22     7.95
  SINCE OCT 1    26.88                     20.50   6.38    22.76
  SINCE JAN 1     6.78                      4.56   2.22     7.95

SNOWFALL (IN)
  TODAY           0.0           3.5  1972                  0.0
  MONTH TO DATE   T                                        0.0
  SINCE OCT 1     9.2                                      0.5
  SINCE JUL 1     9.2                                      0.5
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  TODAY          28                       22      6       25
  MONTH TO DATE  562                     536     26      495
  SINCE DEC 1   1390                    1247    143     1128
  SINCE JUL 1   2449                    2308    141     2889

 COOLING
  TODAY           0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED   2   RESULTANT WIND DIRECTION  NE (30)
  HIGHEST WIND SPEED    12   HIGHEST WIND DIRECTION    NE (40)
  HIGHEST GUST SPEED    16   HIGHEST GUST DIRECTION     N (20)
  AVERAGE WIND SPEED     3.2


SKY COVER
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  FOG
  FOG W/VISIBILITY <= 1/4 MILE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100          1200 AM
 LOWEST     89           200 PM
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 AVERAGE    95

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   49        63      2015
 MINIMUM TEMPERATURE (F)   38         7      1950


SUNRISE AND SUNSET
JANUARY 24 2022.....SUNRISE   744 AM PST   SUNSET   459 PM PST
JANUARY 25 2022.....SUNRISE   743 AM PST   SUNSET   500 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.



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National Weather Service
Seattle/Tacoma, WA Weather Forecast Office
7600 Sand Point Way NE
Seattle, WA 98115-6349
(206) 526-6087
Page Author: SEW Webmaster
Web Master's E-mail: w-sew.webmaster@noaa.gov
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	2/23/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
FAMT-POAN-1 230kV	6/1

Date Outage Occured	Outage ID	Duration of Outage
2/2/2022	221685	14hr

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18"	92'

LOCATION OF TREE

Distance from Centerline 60' Manage ROW Width 50'

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 3 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

The tree fell in the direction of the face, even though the corners of the holding wood had been cut. The person fell the tree diagonaly towards the conductors and the tree contacted about 20 feet from the top and showed significan signs of burnning.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





NATIONAL WEATHER SERVICE

Climate

Weather.gov > Seattle/Tacoma, WA > Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol mpia, WA
WFO Seattle, WA
illa te Airport, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the Last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 200219
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
619 PM PST SAT FEB 19 2022

.....................................

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 19 2022...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2022

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM        47    205 PM  66    1977  50      -3       49
  MINIMUM        39    704 AM  13    2006  32       7       37
  AVERAGE        43                        41       2       43

PRECIPITATION (IN)
  TODAY           0.02          2.07 1991   0.17  -0.15     0.34
  MONTH TO DATE   0.49                      3.54  -3.05     5.43
  SINCE OCT 1    37.65                     32.47   5.18    38.08
  SINCE JAN 1    11.27                     11.34  -0.07    17.65

DEGREE DAYS
 HEATING
  TODAY           22                        24      -2       22
  MONTH TO DATE  467                       469      -2      496
  SINCE DEC 1   1965                      2067    -102     1932
  SINCE JUL 1   3247                      3498    -251     3199

 COOLING
  TODAY           0                         0       0        0
  MONTH TO DATE   0                         0       0        0
  SINCE DEC 1     0                         0       0        0
  SINCE JAN 1     0                         0       0        0
.....................................................................
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WIND (MPH)
  RESULTANT WIND SPEED    8   RESULTANT WIND DIRECTION  SW (210)
  HIGHEST WIND SPEED     17   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED     27   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED    8.9

SKY COVER
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY,
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          400 PM
 LOWEST     76          200 PM
 AVERAGE    85

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    50        61      1995
 MINIMUM TEMPERATURE (F)    32        19      1986
                                              2011

SUNRISE AND SUNSET
FEBRUARY 19 2022.....SUNRISE   709 AM PST   SUNSET   542 PM PST
FEBRUARY 20 2022.....SUNRISE   707 AM PST   SUNSET   544 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(01-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	4/28/2021

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Priest River Tap - Albeni Falls-Sand Creek No 1 (115kV)	3/1

Date Outage Occured	Outage ID	Duration of Outage
4/18/2021	218250	1088 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* NE to SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand fir	12"	70'

LOCATION OF TREE

Distance from Centerline 35' Manage ROW Width 50'

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Narrow ROW, no obvious signs tree was susceptible to failure. High winds caused tree to fall on lines and broke wood pole structure at 3/1.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

From: Zeller,Robert A (BPA) - TFSF-BELL
To: Fackrell,Craig J (BPA) - TFBV-BELL-1
Subject: RE: Priest river tap 3/1
Date: Monday, April 19, 2021 11:13:10 AM

35' from center line 12" DBH right at the structure

From: Zeller,Robert A (BPA) - TFSF-BELL
Sent: Monday, April 19, 2021 10:43 AM
To: Fackrell,Craig J (BPA) - TFBV-BELL-1 <cjfackrell@bpa.gov>
Subject: Priest river tap 3/1

Picture of the tree on the Priest River tap at 3/1. They will try and get the info you need today. this tree broke out the pole top so we are replacing the pole today.



Boots

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	5/4/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU 287 kV	69/4

Date Outage Occured	Outage ID	Duration of Outage
12/30/2021	221244	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	14"	90'

LOCATION OF TREE

Distance from Centerline 68' Manage ROW Width 62'

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 60 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This tree failed due to the heavy wet snow and the Root rot that was effecting the health of the tree.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Len Rieman	Wenatchee	6/7/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Keller Tap To Grand Coulee-Okanogan #2 (KELLT-GCOK-2) 115kv	20/3 ahead on line about 462', Structure 20/4 collapsed.

Date Outage Occurred	Outage ID	Duration of Outage
6/3/2022	22-09660	20.5hrs.

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* unknown.	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☐ Ice Storms ☑ Other: Thunder Sto

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Ponderosa Pine	18	100

LOCATION OF TREE

Distance from Centerline 78' Manage ROW Width 100'

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

There are no NOAA reports. However the National Weather Service had issued a Thunder storm warning with wind speeds to 50mph at 13:10 June 3 2022. General observation of damage found around the outage site, the Beaufort Wind Scale would be a 10.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NATIONAL WEATHER SERVICE

Climate

Weather.gov > Pendleton, OR > Climate

Pendleton, OR
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Pendleton, Oregon
Redmond, Oregon
alles ort, Washington
llens rg, Washington
Pasco, Washington
a lma, Washington
Walla Walla, Washington
ermiston, Oregon

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Clic for access to archived data.

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CDUS46 KPDT 040026
CLIELN

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
526 PM PDT FRI JUN 03 2022

.....

...THE ELLENSBURG WA CLIMATE SUMMARY FOR JUNE 3 2022...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1940 TO 2022

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM         67    151 PM  99    2007  75     -8       88
  MINIMUM         52    419 AM  36    2000  49      3       65
  AVERAGE         60                        62     -2       77

PRECIPITATION (IN)
  TODAY           0.31          0.25 2008   0.03   0.08     0.00
  MONTH TO DATE   0.33                      0.09   0.24     0.00
  SINCE OCT 1     7.36                      7.93  -0.57     4.98
  SINCE JAN 1     4.35                      4.51  -0.16     2.55

DEGREE DAYS
 HEATING
  TODAY              5                        5      0        0
  MONTH TO DATE     10                       15     -5        0
  SINCE JUN 1       10                       15     -5        0
  SINCE JUL 1     6120                     5897    223     5407

 COOLING
  TODAY              0                        2     -2       12
  MONTH TO DATE      1                        5     -4       32
  SINCE JUN 1        1                        5     -4       32
  SINCE JAN 1        1                       27    -26       40
.....
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WIND (MPH)
  RESULTANT WIND SPEED    0   RESULTANT WIND DIRECTION    N (10)
  HIGHEST WIND SPEED     15   HIGHEST WIND DIRECTION     NW (310)
  HIGHEST GUST SPEED     19   HIGHEST GUST DIRECTION     NW (310)

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY,
  HEAVY RAIN
  LIGHT RAIN
  FOG
  FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93
 LOWEST     65
 AVERAGE    79

.....

THE ELLENSBURG WA CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   75        93       2016
 MINIMUM TEMPERATURE (F)   49        40       2011

SUNRISE AND SUNSET
JUNE  3 2022.....SUNRISE   510 AM PDT   SUNSET   851 PM PDT
JUNE  4 2022.....SUNRISE   509 AM PDT   SUNSET   852 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	9/16/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Sand Creek-Bonners Ferry No 1&2 (115 kV)	10/2

Date Outage Occured	Outage ID	Duration of Outage
8/31/2022	222936	442 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* E	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	18"	70'

LOCATION OF TREE

Distance from Centerline 51' Manage ROW Width 50'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☑	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Trunk was deformed and weakened at about 8' up from the ground. High winds caused the tree to break at the defect and lean onto the conductors.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Vince Martinez	Eugene	7/10/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey No. 2 / 230kV	39/2 + 250' AOL right

Date Outage Occured	Outage ID	Duration of Outage
7/10/2022	28273 (OARS ID 222578)	7 hours

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	24"	100'

LOCATION OF TREE

Distance from Centerline 64 — Manage ROW Width 62-5

☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground 15 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**11/1/2022**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1 / 115KV	**23/7**

Date Outage Occured	Outage ID	Duration of Outage
10/27/2022	**223150**	**1441**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Swirling**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**17" and 14"**	**110'**

LOCATION OF TREE

Distance from Centerline **78 feet** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **0**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

The wind appeared to be swirling because fallen trees are pointed in all directions. there is a new clear cut on the north side of the corridor (DNR land). The two trees that failed appear to be health, entire root system failed in the wind and both trees fell over together.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 280118
CLISEA
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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
618 PM PDT THU OCT 27 2022

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR OCTOBER 27 2022...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2022

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
TODAY							
MAXIMUM	59	437 PM	67	1968	57	2	54
MINIMUM	49	225 AM	31	1970	45	4	46
AVERAGE	54				51	3	50
PRECIPITATION (IN)							
TODAY	T		1.23	1967	0.16	-0.16	0.12
MONTH TO DATE	1.30				3.23	-1.93	3.20
SINCE OCT 1	1.30				3.23	-1.93	3.20
SINCE JAN 1	26.68				26.63	0.05	26.43
SNOWFALL (IN)							
TODAY	0.0		MM	MM			0.0
MONTH TO DATE	0.0						0.0
SINCE OCT 1	0.0						0.0
SINCE JUL 1	0.0						0.0
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
TODAY	11				14	-3	15
MONTH TO DATE	178				289	-111	336
SINCE SEP 1	213				391	-178	447
SINCE JUL 1	233				446	-213	486
COOLING							
TODAY	0				0	0	0
MONTH TO DATE	13				0	13	0
SINCE SEP 1	50				30	20	23
SINCE JAN 1	394				263	131	377

WIND (MPH)
RESULTANT WIND SPEED 15 RESULTANT WIND DIRECTION S (190)

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  HIGHEST WIND SPEED    24   HIGHEST WIND DIRECTION     S (200)
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION     S (190)
  AVERAGE WIND SPEED    15.0

SKY COVER
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    77          1200 AM
 LOWEST     51           100 PM
 AVERAGE    64

.....................................................

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   56        68       2017
 MINIMUM TEMPERATURE (F)   44        29       1946

SUNRISE AND SUNSET
OCTOBER 27 2022.....SUNRISE   746 AM PDT   SUNSET   600 PM PDT
OCTOBER 28 2022.....SUNRISE   747 AM PDT   SUNSET   558 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**11/10/2022**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM-1 / 115kv	**37/4**

Date Outage Occurred	Outage ID	Duration of Outage
11/4/2022	**223173**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was not located because property owner cleaned the area so there are not any pictures.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

31370413

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Climate

Seattle/Tacoma, WA
Weather Forecast Office

1. Choose a Product

- (●) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 040835
CLIOLM
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BPA-2025-03068-F 0722

31370413

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
135 AM PDT FRI NOV 04 2022

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 3 2022...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2022

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	44	1159 PM	71	1949	54	-10	54
MINIMUM	33	1230 AM	18	2002	38	-5	40
AVERAGE	39				46	-7	47
PRECIPITATION (IN)							
YESTERDAY	0.48		1.83	1983	0.24	0.24	0.59
MONTH TO DATE	0.61				0.72	-0.11	1.04
SINCE OCT 1	3.78				5.79	-2.01	6.43
SINCE JAN 1	35.99				35.28	0.71	38.85
DEGREE DAYS							
HEATING							
YESTERDAY	26				19	7	18
MONTH TO DATE	71				57	14	65
SINCE SEP 1	482				694	-212	689
SINCE JUL 1	556				834	-278	775
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	11				8	3	11
SINCE JAN 1	241				113	128	248

WIND (MPH)
RESULTANT WIND SPEED 8 RESULTANT WIND DIRECTION S (190)
HIGHEST WIND SPEED 23 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 38 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 9.1

SKY COVER
AVERAGE SKY COVER 1.0

BPA-2025-03068-F 0723

31370413

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG
  FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   89   400 PM
 AVERAGE   95

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	54	74	1949
MINIMUM TEMPERATURE (F)	38	22	2002
			2003

SUNRISE AND SUNSET
NOVEMBER 4 2022.....SUNRISE   759 AM PDT   SUNSET   551 PM PDT
NOVEMBER 5 2022.....SUNRISE   800 AM PDT   SUNSET   549 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA-2025-03068-F 0724

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/7/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Priest River Tap - Albeni Falls-Sand Creek No 1 (115 kV)	2/1

Date Outage Occured	Outage ID	Duration of Outage
11/4/2022	223207	319 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SW to NE	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Ponderosa Pine	14"	65'

LOCATION OF TREE

Distance from Centerline 29' Manage ROW Width 50'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Trunk was slightly curved and broke in the wind about 25' above ground level. This tree was one of 9 within this span that were left as a fringe following recent logging activity in the area. I will have a crew come remove the other 8 trees in the fringe asap.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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CDUS46 KOTX 050832
CLIGEG

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
132 AM PDT SAT NOV 05 2022

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...THE SPOKANE WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 4 2022...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1881 TO 2022

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	51	900 PM	69	1891	47	4	54
MINIMUM	33	831 AM	11	2002	33	0	42
AVERAGE	42				40	2	48
PRECIPITATION (IN)							
YESTERDAY	0.76R		0.72	1985	0.06	0.70	0.28
MONTH TO DATE	1.37				0.24	1.13	0.28
SINCE OCT 1	1.98				1.61	0.37	1.45
SINCE JAN 1	12.47				12.29	0.18	7.83
SNOWFALL (IN)							
YESTERDAY	3.0		9.0	1973	0.1	2.9	0.0
MONTH TO DATE	3.6				0.4	3.2	0.0
SINCE SEP 1	3.6				1.0	2.6	T
SINCE JUL 1	3.6				1.0	2.6	T
SNOW DEPTH	2						
DEGREE DAYS							
HEATING							
YESTERDAY	23				25	-2	17
MONTH TO DATE	106				98	8	80
SINCE SEP 1	467				792	-325	711
SINCE JUL 1	475				846	-371	736

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	81	46	35	42
SINCE JAN 1	765	515	250	919

.....

WIND (MPH)

HIGHEST WIND SPEED	43	HIGHEST WIND DIRECTION	SW (210)
HIGHEST GUST SPEED	54	HIGHEST GUST DIRECTION	SW (210)
AVERAGE WIND SPEED	17.2		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

LIGHT RAIN

LIGHT SNOW

FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	300 PM
LOWEST	77	500 PM
AVERAGE	87	

.....

THE SPOKANE WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	47	64	1934 2016
MINIMUM TEMPERATURE (F)	32	11	2003

SUNRISE AND SUNSET

NOVEMBER 5 2022.....SUNRISE 740 AM PDT SUNSET 526 PM PDT

NOVEMBER 6 2022.....SUNRISE 642 AM PST SUNSET 425 PM PST

- INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	Snohomish	12/19/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Snohomish-Murray #1 / 230KV	5/2

Date Outage Occured	Outage ID	Duration of Outage
11/25/2022	223266	5 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	24	125

LOCATION OF TREE

Distance from Centerline 85 — Manage ROW Width 62.5

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 5 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Heart rot, tree snapped off few feet above ground level after lowland snow

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Seattle/Tacoma, WA

Climatological Report (Daily)

Issued by NWS


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CDUS46 KSEW 260932
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
132 AM PST SAT NOV 26 2022

.....

..THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 25 2022...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49    580 AM  59    1949  50     -1       47
                                      1977
  MINIMUM         36   1040 PM  18    1985  39     -3       42
  AVERAGE         43                       45     -2       45

PRECIPITATION (IN)
  YESTERDAY      0.64          3.04 1998   0.21   0.43     0.69
  MONTH TO DATE  3.51                      5.25  -1.74     9.11
  SINCE OCT 1    6.02                      9.16  -3.14    14.87
  SINCE JAN 1   31.40                     32.56  -1.16    38.10

SNOWFALL (IN)
  YESTERDAY      0.0           0.5  1985                   0.0
  MONTH TO DATE  0.0                                       0.0
  SINCE OCT 1    0.0                                       0.0
  SINCE JUL 1    0.0                                       0.0
  SNOW DEPTH     0

DEGREE DAYS
 HEATING
  YESTERDAY      22                       20      2       28
  MONTH TO DATE  549                     450     99      448
  SINCE SEP 1    817                     901    -84      961
  SINCE JUL 1    837                     956   -119     1800

 COOLING
  YESTERDAY       0                       0      0        0
  MONTH TO DATE   0                       0      0        0
  SINCE SEP 1    50                      30     20       23
  SINCE JAN 1   394                     263    131      377
.....


WIND (MPH)
  RESULTANT WIND SPEED   4   RESULTANT WIND DIRECTION   E (90)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION     N (20)
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION     N (20)
  AVERAGE WIND SPEED   9.8


SKY COVER
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  FOG W/VISIBILITY <= 1/4 MILE
  HAZE


RELATIVE HUMIDITY (PERCENT)
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HIGHEST   100          800 AM
LOWEST     71          500 AM
AVERAGE    86

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THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY
                        NORMAL    RECORD    YEAR
MAXIMUM TEMPERATURE (F)   58        61      1949
MINIMUM TEMPERATURE (F)   39        25      1952

SUNRISE AND SUNSET
NOVEMBER 26 2022.....SUNRISE   730 AM PST   SUNSET   423 PM PST
NOVEMBER 27 2022.....SUNRISE   731 AM PST   SUNSET   422 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.

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National Weather Service
Seattle/Tacoma, WA Weather Forecast Office
7600 Sand Point Way NE
Seattle, WA 98115-6349
(206) 526-6087
Page Author: SEW Webmaster
Web Master's E-mail: w-sew.webmaster@noaa.gov
Page last modified: Sep 6th, 2022 18:00 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	Snohomish	11/5/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Chief Joesph-Snohomish #4 / 345KV	101/2

Date Outage Occurred	Outage ID	Duration of Outage
11/5/2022	223172	4 day

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	16	95

LOCATION OF TREE

Distance from Centerline 70 — Manage ROW Width 62.5

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 20 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☑	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was within the Bolt Creek Fire and roots were burned and high winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	Longview	12/27/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville PH1-Alcoa 1&2 No. 2 / 115KV	21/2-21/3

Date Outage Occured	Outage ID	Duration of Outage
12/22/2022	223388	23 Hours (Approximate)

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* E & SE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-Fir	16"	75'

LOCATION OF TREE

Distance from Centerline 53' Manage ROW Width 100'

☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground 5 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Seasonal stream directly under tree had saturated the soil. This combined with high winds that day was the likely case of failure. Photos show direction of tree failure(looking towards 21/3) and the upturned root ball from both sides (note the saturated soil).

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR


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CDUS46 KPQR 230028
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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
428 PM PST THU DEC 22 2022

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR DECEMBER 22 2022...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM         25    311 PM  61    1948  46    -21       48
  MINIMUM         22    915 AM   3    1990  34    -12       38
  AVERAGE         24                       40    -16       43

PRECIPITATION (IN)
  TODAY           0.00                     0.19  -0.19     0.16

DEGREE DAYS
 HEATING
  TODAY           41                                       22
  MONTH TO DATE  600                                      531
  SINCE DEC 1    600                                      531
  SINCE JUL 1   1473                                     1430

 COOLING
  TODAY            0                                       0
  MONTH TO DATE    0                                       0
  SINCE DEC 1      0                                       0
  SINCE JAN 1    701                                     698
.....


WIND (MPH)
  HIGHEST WIND SPEED    26   HIGHEST WIND DIRECTION     E (110)
  HIGHEST GUST SPEED    40   HIGHEST GUST DIRECTION    SE (120)
  AVERAGE WIND SPEED    18.8


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.5


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    38          1200 AM
 LOWEST     27           100 PM
 AVERAGE    33

.....


THE VANCOUVER WA CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   46        65      1950
 MINIMUM TEMPERATURE (F)   34         2      1983


SUNRISE AND SUNSET
```

DECEMBER 22 2022.....SUNRISE   749 AM PST   SUNSET   430 PM PST
DECEMBER 23 2022.....SUNRISE   749 AM PST   SUNSET   431 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 6th, 2022 18:00 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Nick Wenzl	Eugene	12/28/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No. 2 / 230kV Line	29/1

Date Outage Occured	Outage ID	Duration of Outage
12/27/2022	223489/223495	28 Hours (Approximate)

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	10"	85'

LOCATION OF TREE

Distance from Centerline 80' Manage ROW Width 237.5'

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐	On	☐ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what commen's were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site desciption (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Several others that would be good to remove in my opinion.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. (6/30/2010)

Name of Inspector: Nick Wenzl | Date of Inspection: 12-28-2022

TRANSMISSION LINE DATA

Name *(Operated as)*: Hanse-Wendson No 2 230 kV line | Location of Outage *(Structures)*: 29/1

Date Outage Occurred: 12/27/2022 | Duration of Outage: 28 hours ?

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: Fir | Approximate DBH: 10" | Approximate Height: 85'

LOCATION OF TREE

Distance from Centerline: 80'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: Forest loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Several others that would be good to remove in my opinion.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1



1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Astoria - KAST
Aurora - KUAO
Eugene - KEUG
Hillsboro - KHIO
McMinnville - KMMV
Portland - KPDX
Redmond - KRDM

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 23 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | Oldest | Click for access to archived data.

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CDUS46 KPQR 280021
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
421 PM PST TUE DEC 27 2022

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...THE EUGENE OR CLIMATE SUMMARY FOR DECEMBER 27 2022...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2022

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         57    124 AM  61    1917  46     11        34
                                      1994
  MINIMUM         45    305 PM  16    1924  34     11        22
  AVERAGE         51                        40     11        28

PRECIPITATION (IN)
  TODAY           0.99          2.37 1928   0.21   0.78      0.06
  MONTH TO DATE   3.56                      6.36  -2.80     10.80
  SINCE OCT 1    10.71                     15.51  -4.80     18.73
  SINCE JAN 1    29.81                     39.98 -10.17     35.77

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   T
  SINCE JUL 1     T

DEGREE DAYS
 HEATING
  TODAY           14                        25    -11        37
  MONTH TO DATE  681                       659     22       601
  SINCE DEC 1    681                       659     22       601
  SINCE JUL 1   1639                      1756   -117      1496

 COOLING
  TODAY           0                         0      0         0
  MONTH TO DATE   0                         0      0         0
  SINCE DEC 1     0                         0      0         0
  SINCE JAN 1   514                       293    221       601
-------------------------------------------------------------------
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WIND (MPH)
  HIGHEST WIND SPEED     37   HIGHEST WIND DIRECTION     SW (220)
  HIGHEST GUST SPEED     48   HIGHEST GUST DIRECTION     SW (220)
  AVERAGE WIND SPEED     20.6

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     93           400 AM
 LOWEST      80           500 AM
 AVERAGE     87

.....

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    46         65       1917
                                               1937
 MINIMUM TEMPERATURE (F)    34         19       1985

SUNRISE AND SUNSET
DECEMBER 27 2022.....SUNRISE   747 AM PST   SUNSET   441 PM PST
DECEMBER 28 2022.....SUNRISE   747 AM PST   SUNSET   442 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Nick Wenzl	Eugene	12/28/2022

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No. 2 / 230kV Line	29/1

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	223489/223495	28 Hours (Approximate)

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	10"	85'

LOCATION OF TREE

Distance from Centerline 80' Manage ROW Width 237.5'

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐	On	☐ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Several others that would be good to remove in my opinion.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. (6/30/2010)

Name of Inspector: Nick Wenzl | Date of Inspection: 12-28-2022

TRANSMISSION LINE DATA

Name *(Operated as)*: Hanse-Wendson No 2 230 kV line | Location of Outage *(Structures)*: 29/1

Date Outage Occurred: 12/27/2022 | Duration of Outage: 28 hours ?

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species: Fir | Approximate DBH: 10" | Approximate Height: 85'

LOCATION OF TREE

Distance from Centerline: 80'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☒	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known: Forest loam

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Several others that would be good to remove in my opinion.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1



1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Astoria - KAST
Aurora - KUAO
Eugene - KEUG
Hillsboro - KHIO
McMinnville - KMMV
Portland - KPDX
Redmond - KRDM

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 23 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | Oldest | Click for access to archived data.

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CDUS46 KPQR 280021
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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
421 PM PST TUE DEC 27 2022

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...THE EUGENE OR CLIMATE SUMMARY FOR DECEMBER 27 2022...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2022

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM         57    124 AM  61    1917  46     11        34
                                      1994
  MINIMUM         45    305 PM  16    1924  34     11        22
  AVERAGE         51                        40     11        28

PRECIPITATION (IN)
  TODAY           0.99          2.37 1928   0.21   0.78      0.06
  MONTH TO DATE   3.56                      6.36  -2.80     10.80
  SINCE OCT 1    10.71                     15.51  -4.80     18.73
  SINCE JAN 1    29.81                     39.98 -10.17     35.77

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   T
  SINCE JUL 1     T

DEGREE DAYS
 HEATING
  TODAY           14                        25    -11        37
  MONTH TO DATE  681                       659     22       601
  SINCE DEC 1    681                       659     22       601
  SINCE JUL 1   1639                      1756   -117      1496

 COOLING
  TODAY           0                         0      0         0
  MONTH TO DATE   0                         0      0         0
  SINCE DEC 1     0                         0      0         0
  SINCE JAN 1   514                       293    221       601
-------------------------------------------------------------------
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WIND (MPH)
  HIGHEST WIND SPEED    37   HIGHEST WIND DIRECTION    SW (220)
  HIGHEST GUST SPEED    48   HIGHEST GUST DIRECTION    SW (220)
  AVERAGE WIND SPEED    20.6

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     93           400 AM
 LOWEST      80           500 AM
 AVERAGE     87

.....

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    46         65       1917
                                               1937
 MINIMUM TEMPERATURE (F)    34         19       1985

SUNRISE AND SUNSET
DECEMBER 27 2022.....SUNRISE   747 AM PST   SUNSET   441 PM PST
DECEMBER 28 2022.....SUNRISE   747 AM PST   SUNSET   442 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


$$
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Grinolds	Covington	1/4/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Sammamish-Maple Valley No 1 / 230 kV	9/2

Date Outage Occurred	Outage ID	Duration of Outage
12/23/2022	223458	Not yet restored

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☑ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	24	120

LOCATION OF TREE

Distance from Centerline 77 ft — Manage ROW Width 75 ft

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

N/A

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

See images

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Seattle/Tacoma, WA

Climatological Report (Daily)

Issued by NWS


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000
CDUS46 KSEW 240219
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
619 PM PST FRI DEC 23 2022

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR DECEMBER 23 2022...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 TODAY
  MAXIMUM        34    459 PM  58    1950  46    -12       46
  MINIMUM        23   1257 AM   9    1983  37    -14       38
  AVERAGE        29                       42    -13       42

PRECIPITATION (IN)
  TODAY          0.31          1.14 1949   0.18   0.13     0.16
  MONTH TO DATE  3.41                      4.24  -0.82     3.20
  SINCE OCT 1   10.76                     14.46  -3.70    19.22
  SINCE JAN 1   36.14                     37.86   1.72    42.45

SNOWFALL (IN)
  TODAY          MM            8.9  1965                  8.8
  MONTH TO DATE   4.7                                      T
  SINCE OCT 1     5.8                                      T
  SINCE JUL 1     5.8                                      T
  SNOW DEPTH     MM

DEGREE DAYS
 HEATING
  TODAY          36                       24     12       21
  MONTH TO DATE  665                     525    140      540
  SINCE DEC 1    665                     525    140      540
  SINCE JUL 1   1635                    1586     29     1599

 COOLING
  TODAY           0                       0      0        0
  MONTH TO DATE   0                       0      0        0
  SINCE DEC 1     0                       0      0        0
  SINCE JAN 1   394                     263    131      377
-------------------------------------------------------------------


WIND (MPH)
  RESULTANT WIND SPEED  10   RESULTANT WIND DIRECTION  SE (120)
  HIGHEST WIND SPEED    20   HIGHEST WIND DIRECTION    SE (120)
  HIGHEST GUST SPEED    29   HIGHEST GUST DIRECTION    SE (120)
  AVERAGE WIND SPEED    11.3


SKY COVER
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  LT FREEZING RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96          300 PM
 LOWEST     57         1200 AM
```

AVERAGE 77

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TOMORROW

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	46	62	2005
MINIMUM TEMPERATURE (F)	37	16	1948

SUNRISE AND SUNSET
DECEMBER 23 2022.....SUNRISE 755 AM PST SUNSET 422 PM PST
DECEMBER 24 2022.....SUNRISE 755 AM PST SUNSET 423 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Seattle/Tacoma, WA Weather Forecast Office
7600 Sand Point Way NE
Seattle, WA 98115-6349
(206) 526-6087
Page Author: SEW Webmaster
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Page last modified: Sep 6th, 2022 18:00 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	1/4/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
SATP-COSM-1 / 115KV	15/7

Date Outage Occurred	Outage ID	Duration of Outage
1/2/2023	223498 / 223513	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* northerly	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	16"	90'

LOCATION OF TREE

Distance from Centerline 70' Manage ROW Width 50'

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 35 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Very unsecure soils and the tree had sever root root.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible] WA
WFO Seattle, WA
illa le Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 15 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Oldest | Click for access to archived data.

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CDUS46 KSEW 030222
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
622 PM PST MON JAN 02 2023

.....................................

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 2 2023...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         38    221 PM  56    2003  45     -7        44
  MINIMUM         30    138 AM   6    1950  33     -3        35
  AVERAGE         34                       39     -5        40

PRECIPITATION (IN)
  TODAY            0.00          2.26 2021   0.27  -0.27     1.15
  MONTH TO DATE    0.00                      0.53  -0.53     1.15
  SINCE OCT 1     19.08                     21.66  -2.58    27.53
  SINCE JAN 1      0.00                      0.53  -0.53     1.15

DEGREE DAYS
 HEATING
  TODAY           31                        26     5        25
  MONTH TO DATE   59                        52     7        68
  SINCE DEC 1    893                       863    30       842
  SINCE JUL 1   2158                      2294  -136      2124

 COOLING
  TODAY            0                         0     0         0
  MONTH TO DATE    0                         0     0         0
  SINCE DEC 1      0                         0     0         0
  SINCE JAN 1      0                         0     0         0
.....................................................................

WIND (MPH)
  RESULTANT WIND SPEED    1   RESULTANT WIND DIRECTION   NE (50)
  HIGHEST WIND SPEED      6   HIGHEST WIND DIRECTION      E (100)
  HIGHEST GUST SPEED      7   HIGHEST GUST DIRECTION     NW (330)
  AVERAGE WIND SPEED      2.0
```

SKY COVER
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY
  FOG
  FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   89   100 PM
 AVERAGE   95

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL   RECORD   YEAR
 MAXIMUM TEMPERATURE (F)   45   59   1984
 MINIMUM TEMPERATURE (F)   33   5   1950

SUNRISE AND SUNSET
JANUARY 2 2023.....SUNRISE   757 AM PST   SUNSET   434 PM PST
JANUARY 3 2023.....SUNRISE   757 AM PST   SUNSET   435 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	1/5/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Raver-Paul No 1 500kV	14/2

Date Outage Occurred	Outage ID	Duration of Outage
1/5/2023	223548	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	24"	110'

LOCATION OF TREE

Distance from Centerline 102' Manage ROW Width 75'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Approximately 10 trees fell out of a timber fringe all with in 60 yards of each other from recent logging. I would suggest that BPA spend carry out a DT patrol and remove many more trees in this area to avoid any additional outages.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible] WA
WFO Seattle, WA
illa le Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 15 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Oldest | Click for access to archived data.

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CDUS46 KSEW 050928
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
128 AM PST THU JAN 05 2023

.....................................

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 4 2023...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         44   1131 PM  61    1984  45     -1        41
  MINIMUM         32    754 AM   9    1959  33     -1        33
  AVERAGE         38                       39     -1        37

PRECIPITATION (IN)
  YESTERDAY      0.06          2.46 2015   0.26  -0.20      0.17
  MONTH TO DATE  0.14                      1.05  -0.91      2.21
  SINCE OCT 1   19.22                     22.18  -2.96     28.59
  SINCE JAN 1    0.14                      1.05  -0.91      2.21

DEGREE DAYS
 HEATING
  YESTERDAY       27                       26      1        28
  MONTH TO DATE  110                      104      6       124
  SINCE DEC 1    944                      915     29       898
  SINCE JUL 1   2209                     2346   -137      2180

 COOLING
  YESTERDAY       0                        0      0         0
  MONTH TO DATE   0                        0      0         0
  SINCE DEC 1     0                        0      0         0
  SINCE JAN 1     0                        0      0         0
.....................................................................

WIND (MPH)
  RESULTANT WIND SPEED    5   RESULTANT WIND DIRECTION    N (10)
  HIGHEST WIND SPEED     13   HIGHEST WIND DIRECTION      N (360)
  HIGHEST GUST SPEED     19   HIGHEST GUST DIRECTION      N (350)
  AVERAGE WIND SPEED      5.6
```

```
SKY COVER
  AVERAGE SKY COVER 0.6

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100           300 AM
 LOWEST     70           200 PM
 AVERAGE    85

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    45        55      2015
 MINIMUM TEMPERATURE (F)    33         4      1979

SUNRISE AND SUNSET
JANUARY  5 2023.....SUNRISE   757 AM PST   SUNSET   437 PM PST
JANUARY  6 2023.....SUNRISE   757 AM PST   SUNSET   438 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/5/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CARL-TILL-1	15/4

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	900-2022 / 223477	1d 2h 22m 45s

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	16"	75'

LOCATION OF TREE

Distance from Centerline 55' Manage ROW Width 100' / 50' from center each side

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th storm. The tree was located on ROW edge but outside of maintained area. Tree showed no visible signs of decay and appeared healthy. Strong winds, saturated soils, and step terrain cause the tree to fail.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


44.91 °N, 122.97 °W
Salem, OR Weather History
57° MCNARY FLD STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12PM
1:04 PM
3PM
6PM
9PM
12AM
58
56
54
52
50
48
46
44
48 °F
Temperature (°F)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.05 in
Precipitation (in)
Chart View
40
30
20
10
0
31 mph
18 mph from SW
Wind Speed
Gust (mph)
12AM
3AM
6AM
9AM
12PM
1:04 PM
3PM
6PM
9PM
12AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:47 AM	57 °F	54 °F	89 %	S	16 mph	24 mph	28.88 in	0.0 in	Rain
12:56 AM	57 °F	54 °F	89 %	S	21 mph	30 mph	28.88 in	0.1 in	Rain / Windy
1:56 AM	56 °F	53 °F	84 %	S	33 mph	48 mph	28.85 in	0.1 in	Light Rain / Windy
2:56 AM	56 °F	52 °F	87 %	S	22 mph	36 mph	28.84 in	0.0 in	Cloudy / Windy
3:22 AM	56 °F	52 °F	87 %	S	22 mph	31 mph	28.81 in	0.0 in	Light Rain / Windy
3:30 AM	56 °F	52 °F	87 %	SSE	17 mph	32 mph	28.80 in	0.0 in	Light Rain
3:38 AM	55 °F	52 °F	89 %	SSE	18 mph	0 mph	28.80 in	0.0 in	Light Rain
3:46 AM	55 °F	51 °F	86 %	SSE	20 mph	28 mph	28.79 in	0.0 in	Light Rain
3:56 AM	54 °F	52 °F	93 %	SSE	20 mph	28 mph	28.79 in	0.1 in	Rain
4:34 AM	55 °F	46 °F	72 %	SSW	33 mph	48 mph	28.83 in	0.1 in	Partly Cloudy / Windy
4:56 AM	54 °F	46 °F	75 %	S	28 mph	40 mph	28.82 in	0.1 in	Fair / Windy
5:56 AM	54 °F	48 °F	75 %	S	21 mph	29 mph	28.93 in	0.0 in	Cloudy / Windy
6:56 AM	52 °F	46 °F	80 %	S	24 mph	41 mph	28.84 in	0.0 in	Light Rain / Windy
7:39 AM	51 °F	47 °F	86 %	SSW	26 mph	40 mph	28.87 in	0.0 in	Light Rain
7:56 AM	51 °F	47 °F	86 %	SSW	16 mph	0 mph	28.88 in	0.0 in	Light Rain
8:38 AM	50 °F	45 °F	83 %	S	31 mph	39 mph	28.90 in	0.0 in	Light Rain / Windy
8:56 AM	50 °F	45 °F	83 %	S	21 mph	37 mph	28.91 in	0.0 in	Light Rain / Windy
9:56 AM	49 °F	45 °F	86 %	S	29 mph	41 mph	28.93 in	0.1 in	Light Rain / Windy
10:56 AM	48 °F	44 °F	86 %	SSW	28 mph	38 mph	29.00 in	0.1 in	Rain / Windy
11:20 AM	48 °F	44 °F	86 %	SSW	22 mph	31 mph	29.02 in	0.1 in	Light Rain / Windy
11:56 AM	48 °F	44 °F	86 %	SSW	18 mph	26 mph	29.04 in	0.1 in	Rain
12:03 PM	48 °F	44 °F	86 %	SSW	21 mph	33 mph	29.05 in	0.0 in	Rain / Windy
12:10 PM	48 °F	44 °F	86 %	SSW	25 mph	36 mph	29.05 in	0.0 in	Light Rain / Windy
12:56 PM	48 °F	44 °F	86 %	WSW	18 mph	37 mph	29.11 in	0.1 in	Rain
1:04 PM	48 °F	44 °F	86 %	SW	18 mph	31 mph	29.11 in	0.1 in	Rain
1:56 PM	48 °F	43 °F	83 %	SSW	21 mph	30 mph	29.17 in	0.1 in	Rain / Windy
2:03 PM	48 °F	43 °F	83 %	SW	24 mph	33 mph	29.18 in	0.0 in	Rain / Windy
2:56 PM	47 °F	41 °F	80 %	SW	21 mph	35 mph	29.27 in	0.1 in	Rain / Windy
3:56 PM	46 °F	42 °F	86 %	SW	6 mph	0 mph	29.32 in	0.1 in	Light Rain
4:56 PM	48 °F	42 °F	80 %	WSW	16 mph	24 mph	29.34 in	0.0 in	Light Rain



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/5/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CARL-TILL-1	15/8

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	900-2022 / 223477	1d 2h 22m 45s

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or appicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	16"	75'

LOCATION OF TREE

Distance from Centerline 55' Manage ROW Width 100' / 50' from center each side

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th storm. The tree was located on ROW edge but outside of maintained area. Tree showed no visible signs of decay and appeared healthy. Strong winds, saturated soils, and step terrain cause the tree to fail.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


44.91 °N, 122.97 °W
Salem, OR Weather History
57° MCNARY FLD STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12PM
1:04 PM
3PM
6PM
9PM
12AM
58
56
54
52
50
48
46
44
46 °F
Temperature (°F)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.05 in
Precipitation (in)
Chart View
40
30
20
10
0
31 mph
18 mph from SW
Wind Speed
Gust (mph)

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:47 AM	57 °F	54 °F	89 %	S	16 mph	24 mph	28.88 in	0.0 in	Rain
12:56 AM	57 °F	54 °F	89 %	S	21 mph	30 mph	28.88 in	0.1 in	Rain / Windy
1:56 AM	56 °F	53 °F	84 %	S	33 mph	48 mph	28.85 in	0.1 in	Light Rain / Windy
2:56 AM	56 °F	52 °F	87 %	S	22 mph	36 mph	28.84 in	0.0 in	Cloudy / Windy
3:22 AM	56 °F	52 °F	87 %	S	22 mph	31 mph	28.81 in	0.0 in	Light Rain / Windy
3:30 AM	56 °F	52 °F	87 %	SSE	17 mph	32 mph	28.80 in	0.0 in	Light Rain
3:38 AM	55 °F	52 °F	89 %	SSE	18 mph	0 mph	28.80 in	0.0 in	Light Rain
3:46 AM	55 °F	51 °F	86 %	SSE	20 mph	28 mph	28.79 in	0.0 in	Light Rain
3:56 AM	54 °F	52 °F	93 %	SSE	20 mph	28 mph	28.79 in	0.1 in	Rain
4:34 AM	55 °F	46 °F	72 %	SSW	33 mph	48 mph	28.83 in	0.1 in	Partly Cloudy / Windy
4:56 AM	54 °F	46 °F	75 %	S	28 mph	40 mph	28.82 in	0.1 in	Fair / Windy
5:56 AM	54 °F	46 °F	75 %	S	21 mph	29 mph	28.83 in	0.0 in	Cloudy / Windy
6:56 AM	52 °F	46 °F	80 %	S	24 mph	41 mph	28.84 in	0.0 in	Light Rain / Windy
7:39 AM	51 °F	47 °F	86 %	SSW	26 mph	40 mph	28.87 in	0.0 in	Light Rain
7:56 AM	51 °F	47 °F	86 %	SSW	16 mph	0 mph	28.88 in	0.0 in	Light Rain
8:38 AM	50 °F	45 °F	83 %	S	31 mph	39 mph	28.90 in	0.0 in	Light Rain / Windy
8:56 AM	50 °F	45 °F	83 %	S	21 mph	37 mph	28.91 in	0.0 in	Light Rain / Windy
9:56 AM	49 °F	45 °F	86 %	S	29 mph	41 mph	28.93 in	0.1 in	Light Rain / Windy
10:56 AM	48 °F	44 °F	86 %	SSW	28 mph	38 mph	29.00 in	0.1 in	Rain / Windy
11:20 AM	48 °F	44 °F	86 %	SSW	22 mph	31 mph	29.02 in	0.1 in	Light Rain / Windy
11:56 AM	48 °F	44 °F	86 %	SSW	18 mph	26 mph	29.04 in	0.1 in	Rain
12:03 PM	48 °F	44 °F	86 %	SSW	21 mph	33 mph	29.05 in	0.0 in	Rain / Windy
12:10 PM	48 °F	44 °F	86 %	SSW	25 mph	36 mph	29.05 in	0.0 in	Light Rain / Windy
12:56 PM	48 °F	44 °F	86 %	WSW	18 mph	37 mph	29.11 in	0.1 in	Rain
1:04 PM	48 °F	44 °F	86 %	SW	18 mph	31 mph	29.11 in	0.1 in	Rain
1:56 PM	48 °F	43 °F	83 %	SSW	21 mph	30 mph	29.17 in	0.1 in	Rain / Windy
2:03 PM	48 °F	43 °F	83 %	SW	24 mph	33 mph	29.18 in	0.0 in	Rain / Windy
2:56 PM	47 °F	41 °F	80 %	SW	21 mph	35 mph	29.27 in	0.1 in	Rain / Windy
3:56 PM	46 °F	42 °F	86 %	SW	6 mph	0 mph	29.32 in	0.1 in	Light Rain
4:56 PM	48 °F	42 °F	80 %	WSW	16 mph	24 mph	29.34 in	0.0 in	Light Rain







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/4/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
FORG-TILL-1	22/9

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	902-2022 / 223481	14h 36m

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	18"	110'

LOCATION OF TREE

Distance from Centerline 75' Manage ROW Width 100' / 50' from center each side

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th wind storm . The tree was located off ROW and showed no visible signs of defects. After the tree had fallen you can see the shallow root system and beginnings of root rot, which caused failure with winds and saturated soils from rain.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


45.56 °N, 122.6 °W
Portland, OR Weather History
49° PORTLAND INTERNATIONAL AIRPORT STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12F
12:53 PM
3PM
6PM
9PM
12AM
54
52
50
48
46
44
50 °F
Temperature (°F)
0.15
0.1
0.05
0
0.08 in
Precipitation (in)
40
30
20
10
0
39 mph
22 mph from S
Wind Speed
Gust (mph)

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:25 AM	46 °F	43 °F	89 %	ESE	14 mph	0 mph	29.13 in	0.1 in	Rain
12:53 AM	45 °F	43 °F	93 %	ESE	12 mph	0 mph	29.09 in	0.1 in	Light Rain
1:25 AM	45 °F	42 °F	90 %	ESE	16 mph	0 mph	29.09 in	0.0 in	Light Rain
1:53 AM	45 °F	42 °F	90 %	ESE	16 mph	0 mph	29.06 in	0.1 in	Rain
2:53 AM	45 °F	42 °F	90 %	ESE	18 mph	0 mph	29.05 in	0.2 in	Light Rain
3:20 AM	46 °F	44 °F	93 %	ESE	14 mph	0 mph	29.03 in	0.0 in	Light Rain
3:53 AM	46 °F	44 °F	93 %	ESE	15 mph	0 mph	28.99 in	0.0 in	Light Rain
4:53 AM	44 °F	42 °F	93 %	SE	12 mph	0 mph	28.99 in	0.2 in	Heavy Rain
5:20 AM	54 °F	48 °F	80 %	S	15 mph	24 mph	28.99 in	0.2 in	Mostly Cloudy
5:31 AM	55 °F	49 °F	80 %	S	14 mph	25 mph	29.00 in	0.2 in	Mostly Cloudy
5:53 AM	54 °F	47 °F	77 %	SSW	18 mph	41 mph	29.01 in	0.2 in	Light Rain
6:00 AM	54 °F	47 °F	77 %	S	16 mph	29 mph	29.00 in	0.0 in	Mostly Cloudy
6:53 AM	54 °F	46 °F	75 %	S	22 mph	33 mph	29.00 in	0.0 in	Light Rain / Windy
7:53 AM	53 °F	46 °F	77 %	S	21 mph	33 mph	29.02 in	0.0 in	Light Rain / Windy
8:53 AM	53 °F	45 °F	74 %	S	22 mph	38 mph	29.06 in	0.0 in	Light Rain / Windy
9:46 AM	52 °F	44 °F	74 %	S	18 mph	37 mph	29.06 in	0.0 in	Light Rain
9:53 AM	52 °F	44 °F	74 %	S	22 mph	35 mph	29.05 in	0.0 in	Light Rain / Windy
10:53 AM	51 °F	44 °F	77 %	SSW	26 mph	45 mph	29.11 in	0.1 in	Rain / Windy
11:03 AM	50 °F	44 °F	80 %	S	23 mph	40 mph	29.12 in	0.0 in	Light Rain / Windy
11:38 AM	50 °F	44 °F	80 %	SSW	24 mph	35 mph	29.13 in	0.1 in	Light Rain / Windy
11:53 AM	50 °F	44 °F	80 %	S	18 mph	31 mph	29.14 in	0.1 in	Light Rain
12:16 PM	50 °F	44 °F	80 %	S	17 mph	30 mph	29.14 in	0.0 in	Light Rain
12:53 PM	50 °F	43 °F	77 %	S	22 mph	39 mph	29.16 in	0.1 in	Light Rain / Windy
1:53 PM	49 °F	41 °F	74 %	SSW	26 mph	46 mph	29.22 in	0.1 in	Light Rain / Windy
2:53 PM	48 °F	42 °F	80 %	SW	16 mph	29 mph	29.33 in	0.0 in	Light Rain
3:53 PM	48 °F	40 °F	74 %	SW	20 mph	32 mph	29.44 in	0.0 in	Light Rain
4:53 PM	46 °F	39 °F	76 %	WSW	12 mph	0 mph	29.51 in	0.0 in	Light Rain
5:53 PM	47 °F	39 °F	74 %	SW	10 mph	0 mph	29.54 in	0.0 in	Cloudy
6:53 PM	46 °F	39 °F	76 %	SW	13 mph	0 mph	29.55 in	0.0 in	Cloudy
7:53 PM	45 °F	40 °F	82 %	SW	10 mph	0 mph	29.58 in	0.0 in	Cloudy
8:53 PM	46 °F	42 °F	86 %	S	9 mph	0 mph	29.60 in	0.0 in	Cloudy



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	Longview	1/6/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
BIG EDDY-TROUTDALE NO. 1	61/4-61/5

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	223512	8 Hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	40"	140'

LOCATION OF TREE

Distance from Centerline 78' Manage ROW Width 125'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☑	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

A large stem facing the ROW from a co-dominant Douglas-fir broke off at the branch union due to very high winds (gusts up to 50 mph).

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR


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CDUS46 KPQR 280021
CLITTO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
421 PM PST TUE DEC 27 2022

.....

...THE TROUTDALE OR CLIMATE SUMMARY FOR DECEMBER 27 2022...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM        57    648 AM  63    1980  45     12        35
  MINIMUM        41    203 AM  22    1948  37      4        28
  AVERAGE        49                        41      8        32

PRECIPITATION (IN)
  TODAY           1.30                      0.20   1.10     0.03
  MONTH TO DATE   4.76                      5.39  -0.63     5.58
  SINCE OCT 1    13.96                     15.24  -1.28    16.71
  SINCE JAN 1    41.25                     39.90   1.35    24.40

DEGREE DAYS
 HEATING
  TODAY          16                        24     -8       33
  MONTH TO DATE  723                      630     93      603

 COOLING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
.....


WIND (MPH)
  HIGHEST WIND SPEED    35   HIGHEST WIND DIRECTION     S (200)
  HIGHEST GUST SPEED    50   HIGHEST GUST DIRECTION     S (200)
  AVERAGE WIND SPEED    20.4


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    86          1200 AM
 LOWEST     64           700 AM
 AVERAGE    75

.....


THE TROUTDALE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   45        58       2011
 MINIMUM TEMPERATURE (F)   37        13       1985
```

SUNRISE AND SUNSET
DECEMBER 27 2022.....SUNRISE   749 AM PST   SUNSET   433 PM PST
DECEMBER 28 2022.....SUNRISE   749 AM PST   SUNSET   433 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 6th, 2022 18:00 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/5/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CARL-TILL-1	11/8

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	900-2022 / 223477	1d 2h 22m 45s

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	22"	120'

LOCATION OF TREE

Distance from Centerline 50' Manage ROW Width 100' / 50' from center each side

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

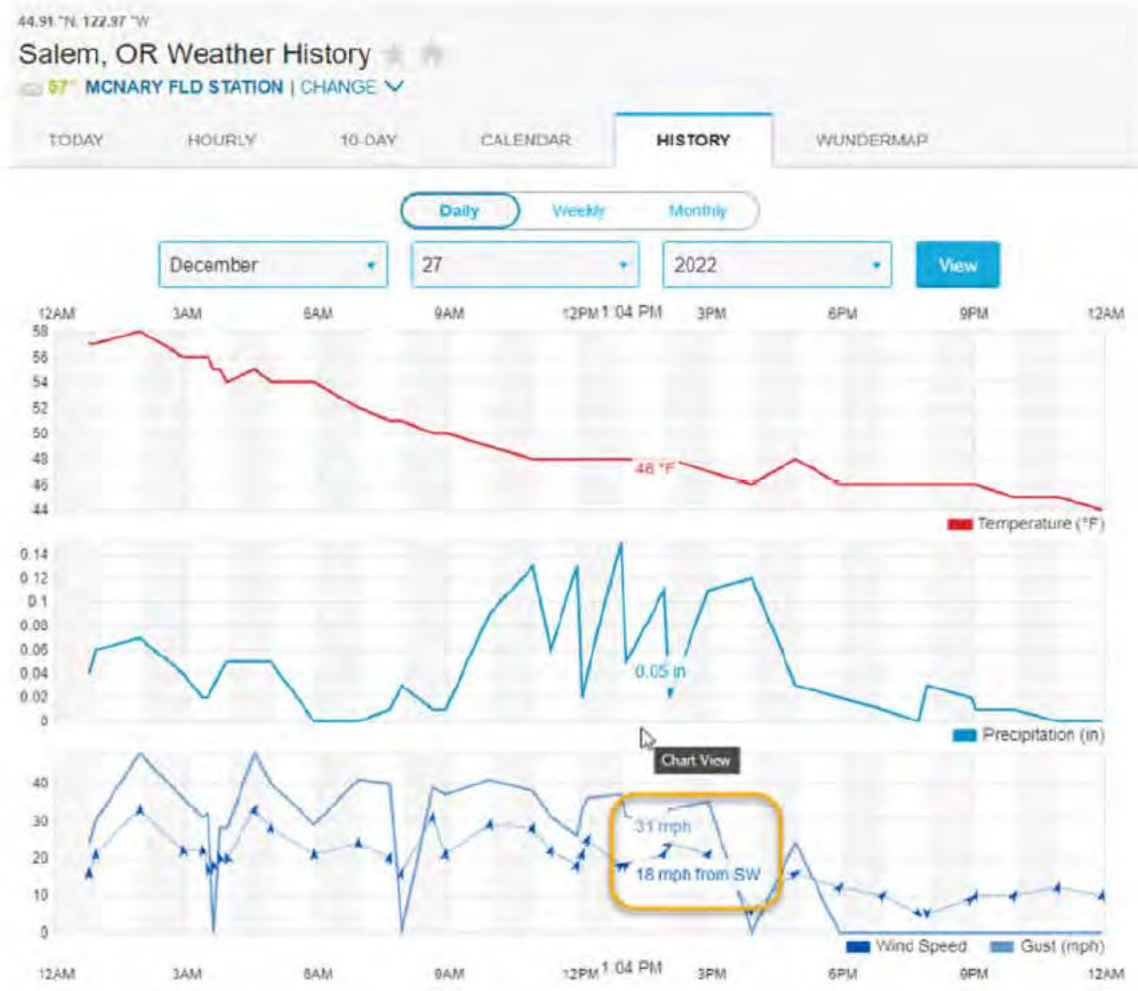
If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th storm. The tree was located on ROW edge but outside of maintained area. Tree showed some signs of possible rot beginning, but tree appeared green and healthy. Strong winds caused the top of the tree to snap off and hit the line.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


44.91 °N, 122.97 °W
Salem, OR Weather History
57° MCNARY FLD STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12PM
1:04 PM
3PM
6PM
9PM
12AM
58
56
54
52
50
48
46
44
46 °F
Temperature (°F)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0.05 in
Precipitation (in)
Chart View
40
30
20
10
0
31 mph
18 mph from SW
Wind Speed
Gust (mph)
12AM
3AM
6AM
9AM
12PM
1:04 PM
3PM
6PM
9PM
12AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:47 AM	57 °F	54 °F	89 %	S	16 mph	24 mph	28.88 in	0.0 in	Rain
12:56 AM	57 °F	54 °F	89 %	S	21 mph	30 mph	28.88 in	0.1 in	Rain / Windy
1:56 AM	56 °F	53 °F	94 %	S	33 mph	48 mph	28.85 in	0.1 in	Light Rain / Windy
2:56 AM	56 °F	52 °F	87 %	S	22 mph	35 mph	28.84 in	0.0 in	Cloudy / Windy
3:22 AM	56 °F	52 °F	87 %	S	22 mph	31 mph	28.81 in	0.0 in	Light Rain / Windy
3:30 AM	56 °F	52 °F	87 %	SSE	17 mph	32 mph	28.80 in	0.0 in	Light Rain
3:38 AM	55 °F	52 °F	89 %	SSE	16 mph	0 mph	28.80 in	0.0 in	Light Rain
3:46 AM	55 °F	51 °F	86 %	SSE	20 mph	28 mph	28.79 in	0.0 in	Light Rain
3:56 AM	54 °F	52 °F	93 %	SSE	20 mph	28 mph	28.79 in	0.1 in	Rain
4:34 AM	55 °F	46 °F	72 %	SSW	33 mph	48 mph	28.83 in	0.1 in	Partly Cloudy / Windy
4:56 AM	54 °F	46 °F	75 %	S	26 mph	40 mph	28.82 in	0.1 in	Fair / Windy
5:56 AM	54 °F	46 °F	75 %	S	21 mph	29 mph	28.83 in	0.0 in	Cloudy / Windy
6:56 AM	52 °F	46 °F	80 %	S	24 mph	41 mph	28.84 in	0.0 in	Light Rain / Windy
7:39 AM	51 °F	47 °F	88 %	SSW	20 mph	40 mph	28.87 in	0.0 in	Light Rain
7:56 AM	51 °F	47 °F	88 %	SSW	16 mph	0 mph	28.88 in	0.0 in	Light Rain
8:38 AM	50 °F	45 °F	83 %	S	31 mph	39 mph	28.90 in	0.0 in	Light Rain / Windy
8:56 AM	50 °F	45 °F	83 %	S	21 mph	37 mph	28.91 in	0.0 in	Light Rain / Windy
9:56 AM	49 °F	45 °F	86 %	S	29 mph	41 mph	28.93 in	0.1 in	Light Rain / Windy
10:56 AM	48 °F	44 °F	86 %	SSW	28 mph	38 mph	29.00 in	0.1 in	Rain / Windy
11:20 AM	48 °F	44 °F	86 %	SSW	22 mph	31 mph	29.02 in	0.1 in	Light Rain / Windy
11:56 AM	48 °F	44 °F	86 %	SSW	18 mph	26 mph	29.04 in	0.1 in	Rain
12:03 PM	48 °F	44 °F	86 %	SSW	21 mph	33 mph	29.05 in	0.0 in	Rain / Windy
12:10 PM	48 °F	44 °F	86 %	SSW	25 mph	36 mph	29.05 in	0.0 in	Light Rain / Windy
12:56 PM	48 °F	44 °F	86 %	WSW	16 mph	37 mph	29.11 in	0.1 in	Rain
1:04 PM	48 °F	44 °F	86 %	SW	18 mph	31 mph	29.11 in	0.1 in	Rain
1:56 PM	49 °F	43 °F	83 %	SSW	21 mph	30 mph	29.17 in	0.1 in	Rain / Windy
2:03 PM	48 °F	43 °F	83 %	SW	24 mph	33 mph	29.18 in	0.0 in	Rain / Windy
2:56 PM	47 °F	41 °F	80 %	SW	21 mph	35 mph	29.27 in	0.1 in	Rain / Windy
3:56 PM	46 °F	42 °F	86 %	SW	6 mph	0 mph	29.32 in	0.1 in	Light Rain
4:55 PM	48 °F	42 °F	80 %	WSW	16 mph	24 mph	29.34 in	0.0 in	Light Rain





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
jason hunt	Olympia	1/10/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM-1 / 115KV	24/7

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2023	223572	7hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* southerly	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	24"	130'

LOCATION OF TREE

Distance from Centerline 64' Manage ROW Width 50'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 1 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Active clear cut 200yds to the south, across hwy 6 probably added to the wind speed that caused the tree to fall, fairly large root ball did up root but showed signs of advance root rot.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Olympia, WA
WFO Seattle, WA
Hillsdale Airport, WA
Bellingham, WA
Spokane, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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000
CDUS46 KSEW 100218
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
618 PM PST MON JAN 09 2023

.....................................

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 9 2023...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         53   1236 PM  57    2010  45       8        48
  MINIMUM         36    222 AM   6    1974  33       3        28
  AVERAGE         45                        39       6        38

PRECIPITATION (IN)
  TODAY           0.19          3.82 1990    0.26  -0.07     0.00
  MONTH TO DATE   1.49                       2.34  -0.85     7.56
  SINCE OCT 1    20.57                      23.47  -2.90    33.94
  SINCE JAN 1     1.49                       2.34  -0.85     7.56

DEGREE DAYS
 HEATING
  TODAY            20                       28     -8       27
  MONTH TO DATE   221                      234    -13      248
  SINCE DEC 1    1055                     1045     10     1022
  SINCE JUL 1    2320                     2476   -156     2304

 COOLING
  TODAY             0                        0      0        0
  MONTH TO DATE     0                        0      0        0
  SINCE DEC 1       0                        0      0        0
  SINCE JAN 1       0                        0      0        0
.....................................................................

WIND (MPH)
  RESULTANT WIND SPEED    1   RESULTANT WIND DIRECTION    S (190)
  HIGHEST WIND SPEED     24   HIGHEST WIND DIRECTION      S (190)
  HIGHEST GUST SPEED     33   HIGHEST GUST DIRECTION     SW (210)
  AVERAGE WIND SPEED      7.6
```

```
SKY COVER
  AVERAGE SKY COVER 0.7

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG
  FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100          1200 AM
 LOWEST     71          1100 AM
 AVERAGE    86

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   45        57       1961
 MINIMUM TEMPERATURE (F)   33         8       1949

SUNRISE AND SUNSET
JANUARY  9 2023.....SUNRISE   756 AM PST   SUNSET   442 PM PST
JANUARY 10 2023.....SUNRISE   755 AM PST   SUNSET   443 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


$$
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	North Bend	1/10/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Toledo-Wendson No. 1 / 230KV	37/2

Date Outage Occurred	Outage ID	Duration of Outage
12/28/2022	223506	0 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* West wind	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	20"	100'

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This was a momentary outage that occurred on 12/28/22. North Bend TLM patrolled and inspected on 1/4/23 finding a tree that had fallen towards the line, 200 ft. AOL of 37/2.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Medford, OR

Climatological Report (Daily)

Issued by NWS Medford, OR


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000
CDUS46 KMFR 280903
CLIMFR

CLIMATE REPORT
NATIONAL WEATHER SERVICE MEDFORD, OR
103 AM PST WED DEC 28 2022

.....................................

...THE MEDFORD OR CLIMATE SUMMARY FOR DECEMBER 27 2022...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1911 TO 2022


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         55    444 AM  63    1991  46      9       36
  MINIMUM         40    756 PM  16    1954  32      8       31
  AVERAGE         48                        39      9       34

PRECIPITATION (IN)
  YESTERDAY       0.68          2.68 2002   0.11   0.57     0.05
  MONTH TO DATE   2.25                      3.12  -0.87     3.72
  SINCE OCT 1     4.78                      6.95  -2.17     7.63
  SINCE JAN 1    12.62                     18.02  -5.40    15.86

SNOWFALL (IN)
  YESTERDAY       0.0                       0.1   -0.1      0.9
  MONTH TO DATE   T                         0.8   -0.8      2.9
  SINCE JUL 1     T                         0.9   -0.9      2.9
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  YESTERDAY       17                       26     -9       31
  MONTH TO DATE  699                      688     11      683
  SINCE DEC 1    699                      688     11      683
  SINCE JUL 1   1546                     1625    -79     1553

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1  1283                      909    374     1333
-------------------------------------------------------------------


WIND (MPH)
  HIGHEST WIND SPEED    33   HIGHEST WIND DIRECTION     W (250)
  HIGHEST GUST SPEED    51   HIGHEST GUST DIRECTION     W (250)
  AVERAGE WIND SPEED    10.5


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    86          800 PM
 LOWEST     48          500 AM
 AVERAGE    67
```

THE MEDFORD OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	46	63	2011
MINIMUM TEMPERATURE (F)	32	16	1930

SUNRISE AND SUNSET
DECEMBER 28 2022.....SUNRISE 740 AM PST SUNSET 446 PM PST
DECEMBER 29 2022.....SUNRISE 740 AM PST SUNSET 447 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Medford, OR Weather Forecast Office
4003 Cirrus Dr.
Medford, OR 97504-4198
(541) 773-1067
Page Author: MFR Webmaster
Web Master's E-mail: w-mfr.webmaster@noaa.gov
Page last modified: Sep 6th, 2022 18:00 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/11/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
FORG-TILL-1 / 115KV	16/5

Date Outage Occured	Outage ID	Duration of Outage
12/27/2022	902-2022 / 223481	14h 36m

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	21"	125'

LOCATION OF TREE

Distance from Centerline 58' Manage ROW Width 100' / 50' from center each side

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☑	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th wind storm . The tree was located off ROW and showed no visible signs of defects. Cause of failure was winds and saturated soils from rain. The tree is also located in a wetland area so soils are more unstable.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


45.56 °N, 122.6 °W
Portland, OR Weather History
49° PORTLAND INTERNATIONAL AIRPORT STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12F
12:53 PM
3PM
6PM
9PM
12AM
54
52
50
48
46
44
50 °F
Temperature (°F)
0.15
0.1
0.05
0
0.08 in
Precipitation (in)
40
30
20
10
0
39 mph
22 mph from S
Wind Speed
Gust (mph)

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:25 AM	46 °F	43 °F	89 %	ESE	14 mph	0 mph	29.13 in	0.1 in	Rain
12:53 AM	45 °F	43 °F	93 %	ESE	12 mph	0 mph	29.09 in	0.1 in	Light Rain
1:25 AM	45 °F	42 °F	90 %	ESE	16 mph	0 mph	29.09 in	0.0 in	Light Rain
1:53 AM	45 °F	42 °F	90 %	ESE	16 mph	0 mph	29.06 in	0.1 in	Rain
2:53 AM	45 °F	42 °F	90 %	ESE	18 mph	0 mph	29.05 in	0.2 in	Light Rain
3:20 AM	46 °F	44 °F	93 %	ESE	14 mph	0 mph	29.03 in	0.0 in	Light Rain
3:53 AM	46 °F	44 °F	93 %	ESE	15 mph	0 mph	28.99 in	0.0 in	Light Rain
4:53 AM	44 °F	42 °F	93 %	SE	12 mph	0 mph	28.99 in	0.2 in	Heavy Rain
5:20 AM	54 °F	48 °F	80 %	S	15 mph	24 mph	28.99 in	0.2 in	Mostly Cloudy
5:31 AM	55 °F	49 °F	80 %	S	14 mph	25 mph	29.00 in	0.2 in	Mostly Cloudy
5:53 AM	54 °F	47 °F	77 %	SSW	18 mph	41 mph	29.01 in	0.2 in	Light Rain
6:00 AM	54 °F	47 °F	77 %	S	16 mph	29 mph	29.00 in	0.0 in	Mostly Cloudy
6:53 AM	54 °F	46 °F	75 %	S	22 mph	33 mph	29.00 in	0.0 in	Light Rain / Windy
7:53 AM	53 °F	46 °F	77 %	S	21 mph	33 mph	29.02 in	0.0 in	Light Rain / Windy
8:53 AM	53 °F	45 °F	74 %	S	22 mph	38 mph	29.06 in	0.0 in	Light Rain / Windy
9:46 AM	52 °F	44 °F	74 %	S	18 mph	37 mph	29.06 in	0.0 in	Light Rain
9:53 AM	52 °F	44 °F	74 %	S	22 mph	35 mph	29.05 in	0.0 in	Light Rain / Windy
10:53 AM	51 °F	44 °F	77 %	SSW	26 mph	45 mph	29.11 in	0.1 in	Rain / Windy
11:03 AM	50 °F	44 °F	80 %	S	23 mph	40 mph	29.12 in	0.0 in	Light Rain / Windy
11:38 AM	50 °F	44 °F	80 %	SSW	24 mph	35 mph	29.13 in	0.1 in	Light Rain / Windy
11:53 AM	50 °F	44 °F	80 %	S	18 mph	31 mph	29.14 in	0.1 in	Light Rain
12:16 PM	50 °F	44 °F	80 %	S	17 mph	30 mph	29.14 in	0.0 in	Light Rain
12:53 PM	50 °F	43 °F	77 %	S	22 mph	39 mph	29.16 in	0.1 in	Light Rain / Windy
1:53 PM	49 °F	41 °F	74 %	SSW	26 mph	46 mph	29.22 in	0.1 in	Light Rain / Windy
2:53 PM	48 °F	42 °F	80 %	SW	16 mph	29 mph	29.33 in	0.0 in	Light Rain
3:53 PM	48 °F	40 °F	74 %	SW	20 mph	32 mph	29.44 in	0.0 in	Light Rain
4:53 PM	46 °F	39 °F	76 %	WSW	12 mph	0 mph	29.51 in	0.0 in	Light Rain
5:53 PM	47 °F	39 °F	74 %	SW	10 mph	0 mph	29.54 in	0.0 in	Cloudy
6:53 PM	46 °F	39 °F	76 %	SW	13 mph	0 mph	29.55 in	0.0 in	Cloudy
7:53 PM	45 °F	40 °F	82 %	SW	10 mph	0 mph	29.58 in	0.0 in	Cloudy
8:53 PM	46 °F	42 °F	86 %	S	9 mph	0 mph	29.60 in	0.0 in	Cloudy







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	1/11/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
TIMBT-FOTI-1	4/3

Date Outage Occurred	Outage ID	Duration of Outage
12/27/2022	902-2022 / 223481	14h 36m

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	14"	75'

LOCATION OF TREE

Distance from Centerline 51' Manage ROW Width 100' / 50' from center each side

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☑	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM removed the tree during the December 27th wind storm . The tree was located off ROW and showed no visible signs of defects. Cause of failure was winds and saturated soils from rain.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.


45.56 °N, 122.6 °W
Portland, OR Weather History
49° PORTLAND INTERNATIONAL AIRPORT STATION | CHANGE
TODAY
HOURLY
10-DAY
CALENDAR
HISTORY
WUNDERMAP
Daily
Weekly
Monthly
December
27
2022
View
12AM
3AM
6AM
9AM
12F
12:53 PM
3PM
6PM
9PM
12AM
54
52
50
48
46
44
50 °F
Temperature (°F)
0.15
0.1
0.05
0
0.08 in
Precipitation (in)
40
30
20
10
0
39 mph
22 mph from S
Wind Speed
Gust (mph)

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:25 AM	46 °F	43 °F	89 %	ESE	14 mph	0 mph	29.13 in	0.1 in	Rain
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8:53 AM	53 °F	45 °F	74 %	S	22 mph	38 mph	29.06 in	0.0 in	Light Rain / Windy
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11:53 AM	50 °F	44 °F	80 %	S	18 mph	31 mph	29.14 in	0.1 in	Light Rain
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12:53 PM	50 °F	43 °F	77 %	S	22 mph	39 mph	29.16 in	0.1 in	Light Rain / Windy
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3:53 PM	48 °F	40 °F	74 %	SW	20 mph	32 mph	29.44 in	0.0 in	Light Rain
4:53 PM	46 °F	39 °F	76 %	WSW	12 mph	0 mph	29.51 in	0.0 in	Light Rain
5:53 PM	47 °F	39 °F	74 %	SW	10 mph	0 mph	29.54 in	0.0 in	Cloudy
6:53 PM	46 °F	39 °F	76 %	SW	13 mph	0 mph	29.55 in	0.0 in	Cloudy
7:53 PM	45 °F	40 °F	82 %	SW	10 mph	0 mph	29.58 in	0.0 in	Cloudy
8:53 PM	46 °F	42 °F	86 %	S	9 mph	0 mph	29.60 in	0.0 in	Cloudy







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	3/1/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Toledo / 230kV	53/2

Date Outage Occurred	Outage ID	Duration of Outage
7/2/2022	222487	8 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☑	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☑ **Other**: Logging

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	32"	95'

LOCATION OF TREE

Distance from Centerline 89' Manage ROW Width 125' (62.5' From center)

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

On 3/1/22 Owner was not home. TLM did meet with owner on site back in July 2022 (see general remarks section).

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

From TLM: "I personally spoke with the property owner and verified nobody was hurt, went on in detail of how important it is to contact BPA when removing trees and how fortunate they were nobody was hurt or killed."

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	3/29/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Bell-Boundary-3 / 2320KV	78/1

Date Outage Occured	Outage ID	Duration of Outage
3/28/2023	224090	373 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	16"	70'

LOCATION OF TREE

Distance from Centerline 55' Manage ROW Width 100'

☐	Uphill	☑	Left Side		
☐	Downhill		% Slope of ground	%	
☐	Right Side		On or Off ROW?	☐ On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☑	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was dead prior to failure, located on hillside above lines. Saturated soils led to tree leaning and breaking at the roots, then getting stuck on conductor. TLM reported tree was burning when they arrived, but fire did not reach the ground.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

000
CDUS46 KOTX 290849
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
149 AM PDT WED MAR 29 2023

.....

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR MARCH 28 2023...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	52	248 PM	MM	MM	52	0	66
MINIMUM	32	605 AM	MM	MM	29	3	36
AVERAGE	42				41	1	51
PRECIPITATION (IN)							
YESTERDAY	0.00		MM	MM	0.07	-0.07	0.00
MONTH TO DATE	0.92				2.05	-1.13	1.29
SINCE OCT 1	11.74				14.40	-2.66	11.41
SINCE JAN 1	3.80				6.57	-2.77	5.35
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	23				24	-1	14
MONTH TO DATE	774				779	-5	697
SINCE MAR 1	774				779	-5	697
SINCE JUL 1	5939				6026	-87	5896
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0

```
  SINCE JAN 1      0                          0      0        0
.....................................................................

WIND (MPH)
  HIGHEST WIND SPEED    21   HIGHEST WIND DIRECTION    NE (50)
  HIGHEST GUST SPEED    25   HIGHEST GUST DIRECTION    NE (60)
  AVERAGE WIND SPEED    11.6

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.1

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    69           500 AM
 LOWEST     28           300 PM
 AVERAGE    49

.........................................................

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        MM        MM
 MINIMUM TEMPERATURE (F)   29        MM        MM

SUNRISE AND SUNSET
MARCH 29 2023.....SUNRISE   634 AM PDT   SUNSET   715 PM PDT
MARCH 30 2023.....SUNRISE   632 AM PDT   SUNSET   717 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	5/2/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Raymond Henkle street / 115KV	1/2

Date Outage Occured	Outage ID	Duration of Outage
4/30/2023	224200	396

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Alder	11"	84'

LOCATION OF TREE

Distance from Centerline 60' Manage ROW Width 50'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 2	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 300826
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PDT SUN APR 30 2023

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR APRIL 29 2023...
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CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	78	443 PM	81	1957	62	16	60
MINIMUM	43	432 AM	28	1952	39	4	42
AVERAGE	61				51	10	51
PRECIPITATION (IN)							
YESTERDAY	0.00		1.14	1959	0.09	-0.09	0.28
MONTH TO DATE	6.21				3.58	2.63	5.06
SINCE OCT 1	35.72				43.28	-7.56	50.66
SINCE JAN 1	16.64				22.15	-5.51	24.28
DEGREE DAYS							
HEATING							
YESTERDAY	4				14	-10	14
MONTH TO DATE	542				490	52	599
SINCE MAR 1	1193				1138	55	1193
SINCE JUL 1	4772				4847	-75	4690
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)
RESULTANT WIND SPEED 3 RESULTANT WIND DIRECTION SW (230)
HIGHEST WIND SPEED 13 HIGHEST WIND DIRECTION W (270)
HIGHEST GUST SPEED 19 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 4.9

SKY COVER
AVERAGE SKY COVER 0.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)

```
HIGHEST   100          600 AM
LOWEST     36          400 PM
AVERAGE    68

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    63        84      1998
 MINIMUM TEMPERATURE (F)    40        26      1964

SUNRISE AND SUNSET
APRIL 30 2023.....SUNRISE   558 AM PDT   SUNSET   821 PM PDT
MAY  1 2023.....SUNRISE   556 AM PDT   SUNSET   822 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	4/26/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-GCOU 1 / 287KV	67/3

Date Outage Occurred	Outage ID	Duration of Outage
12/22/2022	223391	23hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir tree	18"	110

LOCATION OF TREE

Distance from Centerline 80 Manage ROW Width 60

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 30 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☑	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Thin soils with with underlying rock.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	5/18/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
MOSY-CHEH-1 / 230KV	8/8

Date Outage Occurred	Outage ID	Duration of Outage
5/15/2023	224346	7hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* NE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	10"	100'

LOCATION OF TREE

Distance from Centerline 74' Manage ROW Width 50'

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol ym ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the Last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 150842
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
142 AM PDT MON MAY 15 2023

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR MAY 14 2023...
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CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	90R	407 PM	89	1973	66	24	67
MINIMUM	50	440 AM	28	1964	43	7	45
AVERAGE	70				54	16	56
PRECIPITATION (IN)							
YESTERDAY	0.00		0.93	2011	0.07	-0.07	0.08
MONTH TO DATE	0.44				1.12	-0.68	1.93
SINCE OCT 1	36.16				44.49	-8.33	52.88
SINCE JAN 1	17.08				23.36	-6.28	26.50
DEGREE DAYS							
HEATING							
YESTERDAY	0				11	-11	9
MONTH TO DATE	125				171	-46	227
SINCE MAR 1	1330				1323	7	1435
SINCE JUL 1	4909				5032	-123	4932
COOLING							
YESTERDAY	5				0	5	0
MONTH TO DATE	8				0	8	0
SINCE MAR 1	8				0	8	0
SINCE JAN 1	8				0	8	0

WIND (MPH)
RESULTANT WIND SPEED 6 RESULTANT WIND DIRECTION NE (30)
HIGHEST WIND SPEED 21 HIGHEST WIND DIRECTION N (20)
HIGHEST GUST SPEED 29 HIGHEST GUST DIRECTION N (20)
AVERAGE WIND SPEED 7.0

SKY COVER
AVERAGE SKY COVER 0.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)

```
HIGHEST     83           300 AM
LOWEST      23           300 PM
AVERAGE     53

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    66        85      1958
                                              2007
 MINIMUM TEMPERATURE (F)    43        27      1964

SUNRISE AND SUNSET
MAY 15 2023.....SUNRISE   536 AM PDT   SUNSET   840 PM PDT
MAY 16 2023.....SUNRISE   535 AM PDT   SUNSET   841 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Strombom, Jennifer	Chemawa	5/16/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
TIMBT-FOTI-1 / 34.5KV Feeder 1	7/6

Date Outage Occured	Outage ID	Duration of Outage
5/14/2023	224329	0hr 0min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* E	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	24"	110'

LOCATION OF TREE

Distance from Centerline 75' Manage ROW Width 100' / 50' from center each side

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☑	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

See attached report.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

I went out on site to 7/6 on May 16th, 2023 after receiving reports of a possible tree caused outage. There was also a fire on site close to the time of the trip in our system. While on site I found no conclusive evidence to show that the tree in question caused a fire which started within or adjacent to the ROW. I am not a fire investigator, so I can only provide information to what I saw on the ground. If this information is needed, someone with that expertise would be necessary.

On site I saw that midspan in 7/6, right side (east), an approx. 110ft hemlock tree had failed approximately 70ft up the tree, falling in what appeared to be a NW towards the conductor. Where the tree had failed was a woodpecker hole and signs on insect infestation, which would be the likely cause as to why the tree had failed. The tree was also not marked in our system as a DT and had no paint on it. It was located almost 15ft outside of the ROW.

The top 15ft of the tree however was facing in a SW direction on the edge of the ROW. My assumption would be that the tree failed with the strong eastern winds, falling NW, and the top of the tree snapped back causing it to be pointed in the opposite direction. Trees that are dead and have decay tend to snap in the direction of the tree or break given the force going through it.

Given where the top of the tree landed just outside of the conductor zone. If conditions were right, it may have been possible for the broken portions of tree got close enough to arch over. Looking at the conductor in this area however, there were no markings on it showing a burn or damage that would indicate that the tree made contact with the line. The relay on the system was also instantaneous, so it does not seem reasonable that the tree stayed in circuit with the conductor.

I talked to Jim Turner (TLM Foreman III) and he stated that the tree would have to be incredibly close to cause it to arch (MVCD is 2 ft at this location and voltage). Jim also let me know that when he talked to the land owner on site, they believed they called the fire department about smoke around 10:30 AM, and the relay wasn't until 10:51 AM. Given that I am not sure if the LO was off on timing or if there was other activities going on within the ROW, but it is information to pass along within this report.

There were no limbs on the tree that would have suggested they were hung up or on the ground sticking up that were close enough to arch, and there was no sign of vegetation in the ROW growing that would have been tall enough to cause a fault to ground. With the low intensity of this fire, we would have likely seen remaining stems from vegetation within ROW.

During the time of the incident humidity was also incredibly low at 28%, and sustained winds were 24 MPH with gusts reaching up to 30 MPH.

















Search Locations

Log in

Recent Cities
Timber, OR (97144) (/weather/us/or/timber/45.72,-123.30)

45.56 °N, 122.6 °W

Portland, OR Weather History

77° PORTLAND INTERNATIONAL AIRPORT STATION (/DASHBOARD/PWS/KORPORTL20537?CM_VEN=LOCALWX_PWSDASH) | CHANGE

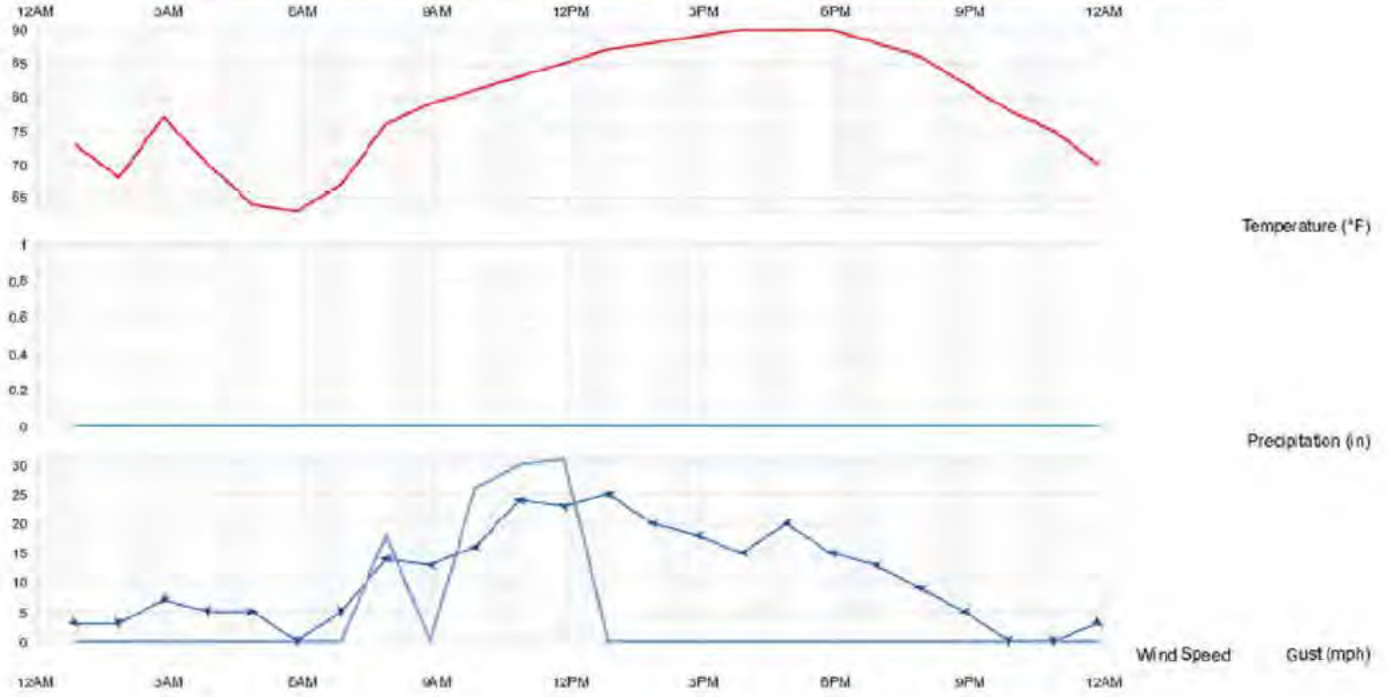
HISTORY (/HISTORY/DAILY/US/OR/PORTLAND/KPDX)

- TODAY (/WEATHER/US/OR/PORTLAND/KPDX)
- HOURLY (/HOURLY/US/OR/PORTLAND/KPDX)
- 10-DAY (/FORECAST/US/OR/PORTLAND/KPDX)
- CALENDAR (/CALENDAR/US/OR/PORTLAND/KPDX)
- HISTORY (/HISTORY/DAILY/US/OR/PORTLAND/KPDX)
- WUNDERMAP (/WUNDERMAP?LAT=45.561&LON=-122.603)

Daily | Weekly | Monthly

(/history/daily/us/or/portland/KPDX/date/2023-5-14) (/history/daily/us/or/portland/KPDX/date/2023-5-14) (/history/daily/us/or/portland/KPDX/date/2023-5)

May | 14 | 2023 | View



Summary

Temperature (°F)	Actual	Historic Avg.	Record
High Temp	90	69.2	95
Low Temp	63	49.1	33
Day Average Temp	79.13	59.2	-
Precipitation (in)	Actual	Historic Avg.	Record

Temperature (°F)	Actual	Historic Avg.	Record
Precipitation (past 24 hours from 07:53:00)	0.00	-	-

Dew Point (°F)	Actual	Historic Avg.	Record
Dew Point	47.67	-	-
High	52	-	-
Low	43	-	-
Average	47.67	-	-

Wind (mph)	Actual	Historic Avg.	Record
Max Wind Speed	25	-	-
Visibility	10	-	-

Sea Level Pressure (in)	Actual	Historic Avg.	Record
Sea Level Pressure	29.99	-	-

Astronomy	Day Length	Rise	Set
Actual Time	14h 51m	5:42 AM	8:33 PM
Civil Twilight		5:07 AM	9:08 PM
Nautical Twilight		4:23 AM	9:52 PM
Astronomical Twilight		3:32 AM	10:44 PM
Moon: waning crescent		3:39 AM	3:02 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:53 AM	73 °F	45 °F	37 %	NW	3 mph	0 mph	29.99 in	0.0 in	Fair
1:53 AM	68 °F	48 °F	49 %	VAR	3 mph	0 mph	29.99 in	0.0 in	Fair
2:53 AM	77 °F	43 °F	30 %	NNE	7 mph	0 mph	29.97 in	0.0 in	Fair
3:53 AM	70 °F	48 °F	42 %	N	5 mph	0 mph	29.97 in	0.0 in	Fair
4:53 AM	64 °F	49 °F	55 %	W	5 mph	0 mph	29.97 in	0.0 in	Fair
5:53 AM	63 °F	49 °F	60 %	CALM	0 mph	0 mph	29.97 in	0.0 in	Fair
6:53 AM	67 °F	50 °F	54 %	VAR	5 mph	0 mph	29.97 in	0.0 in	Fair
7:53 AM	76 °F	46 °F	35 %	E	14 mph	16 mph	29.96 in	0.0 in	Fair
8:53 AM	79 °F	46 °F	31 %	E	13 mph	0 mph	29.96 in	0.0 in	Fair
9:53 AM	81 °F	47 °F	30 %	E	16 mph	26 mph	29.94 in	0.0 in	Fair
10:53 AM	83 °F	47 °F	26 %	E	24 mph	30 mph	29.91 in	0.0 in	Fair / Windy
11:53 AM	85 °F	47 °F	27 %	ESE	23 mph	31 mph	29.90 in	0.0 in	Fair / Windy
12:53 PM	87 °F	47 °F	25 %	E	25 mph	0 mph	29.90 in	0.0 in	Fair / Windy
1:53 PM	88 °F	48 °F	25 %	E	20 mph	0 mph	29.89 in	0.0 in	Fair
2:53 PM	89 °F	48 °F	24 %	E	18 mph	0 mph	29.89 in	0.0 in	Fair
3:53 PM	90 °F	49 °F	24 %	E	15 mph	0 mph	29.85 in	0.0 in	Fair
4:53 PM	90 °F	47 °F	23 %	E	20 mph	0 mph	29.85 in	0.0 in	Fair
5:53 PM	90 °F	48 °F	24 %	E	15 mph	0 mph	29.84 in	0.0 in	Fair
6:53 PM	88 °F	47 °F	24 %	E	13 mph	0 mph	29.84 in	0.0 in	Fair
7:53 PM	86 °F	48 °F	27 %	E	9 mph	0 mph	29.85 in	0.0 in	Fair
8:53 PM	82 °F	47 °F	29 %	E	5 mph	0 mph	29.86 in	0.0 in	Fair
9:53 PM	76 °F	50 °F	37 %	CALM	0 mph	0 mph	29.87 in	0.0 in	Fair

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	6/21/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Toledo No. 1 / 230kV	At 49/6 Structure

Date Outage Occurred	Outage ID	Duration of Outage
6/20/2023	224611	0 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	22"	95'

LOCATION OF TREE

Distance from Centerline 85' — Manage ROW Width 125' (62.5' From Center)

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was uprooted. No signs of any type of defects (other than some shallow roots). Rain and some wind conditions over the weekend, which might have weakened the stability of the tree.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (●) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
gene
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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000
CDUS46 KPQR 200221
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
721 PM PDT MON JUN 19 2023

.....................................
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...THE EUGENE OR CLIMATE SUMMARY FOR JUNE 19 2023...
VALID TODAY AS OF 0700 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2023

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
TODAY							
MAXIMUM	64	252 PM	93	1946	75	-11	64
MINIMUM	47	1239 AM	37	1942	48	-1	52
AVERAGE	56				61	-5	58
PRECIPITATION (IN)							
TODAY	0.02		0.70	1913	0.04	-0.02	T
MONTH TO DATE	0.14				0.94	-0.80	2.48
SINCE OCT 1	26.67				38.44	-11.77	37.74
SINCE JAN 1	14.49				22.08	-7.59	18.68
SNOWFALL (IN)							
TODAY	0.0						
MONTH TO DATE	0.0						
SINCE JUL 1	2.2						
DEGREE DAYS							
HEATING							
TODAY	9				4	5	7
MONTH TO DATE	53				110	-57	89
SINCE JUN 1	53				110	-57	89
SINCE JUL 1	4428				4579	-151	4352
COOLING							
TODAY	0				1	-1	0
MONTH TO DATE	23				4	19	2
SINCE JUN 1	23				4	19	2
SINCE JAN 1	72				8	64	2

WIND (MPH)
  HIGHEST WIND SPEED 20 HIGHEST WIND DIRECTION W (250)
  HIGHEST GUST SPEED 23 HIGHEST GUST DIRECTION W (250)
  AVERAGE WIND SPEED 9.1

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.7

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   86   400 AM
 LOWEST   48   500 PM
 AVERAGE   67

.....

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW

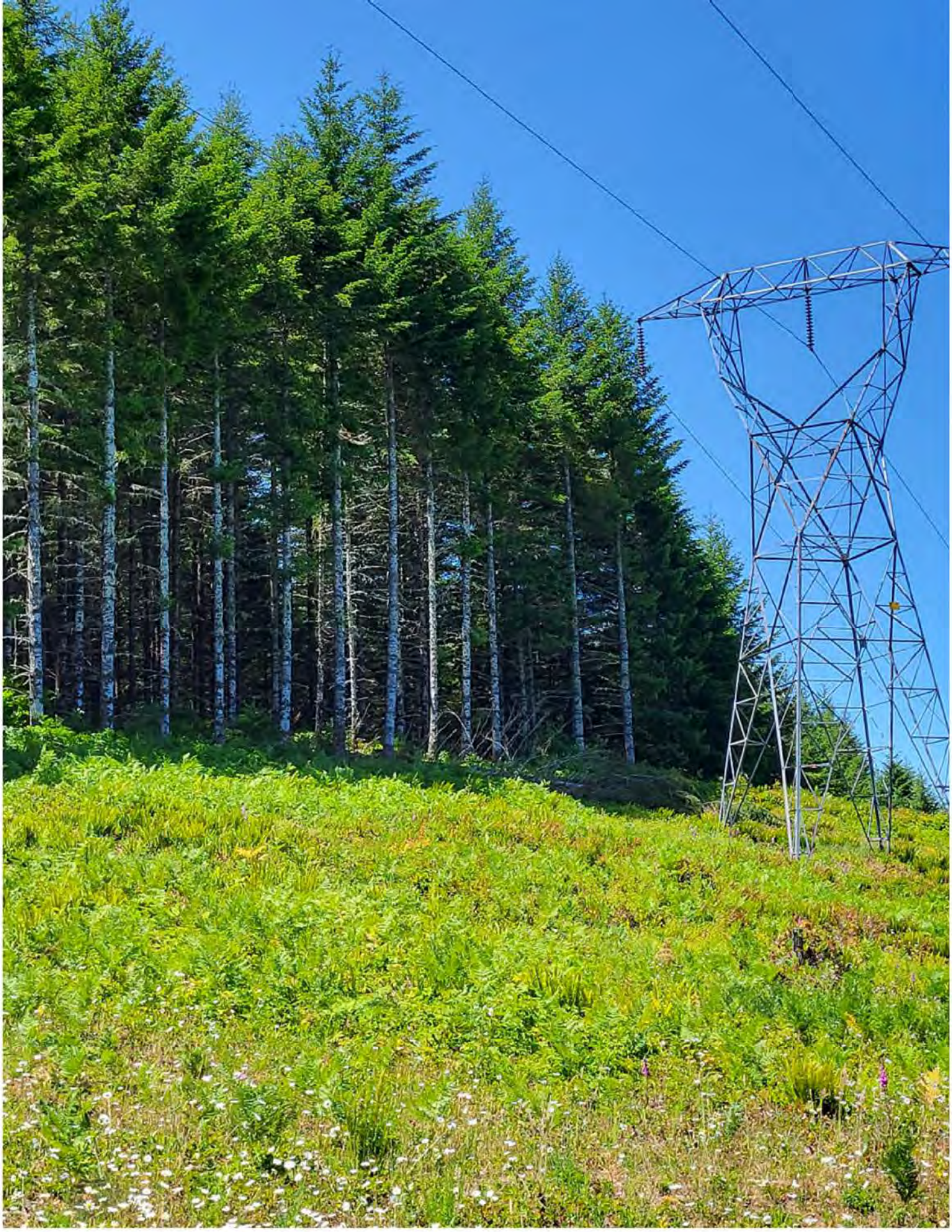
	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	75	96	1970
MINIMUM TEMPERATURE (F)	48	38	1997

SUNRISE AND SUNSET
JUNE 19 2023.....SUNRISE   529 AM PDT   SUNSET   859 PM PDT
JUNE 20 2023.....SUNRISE   529 AM PDT   SUNSET   900 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.













BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Kyle Goeke	Kalispell	6/27/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego No 1 / 115 kV	18/2 - 18/3

Date Outage Occurred	Outage ID	Duration of Outage
6/24/2023	224627	218 minutes

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	11 in	49 ft

LOCATION OF TREE

Distance from Centerline 51 ft — Manage ROW Width 100 ft

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

TLM spoke with and strongly reprimanded LO. They explained the safety risk involved and reiterated to them that they should not be felling any trees on property that border the transmission ROW. NRS traveled to site shortly afterwards but LO was not home.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Landowner cut an off-ROW tree on their property and it fell on the COLF-TREG. Was part of a clump of pine/fir that was in SE of LO home. TLM chunked the fallen tree and also cut adjacent tree.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)

Storm Event Database (NCEI)

2. Choose a Location

Missoula, MT
[illegible] MT
utte, MT

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CDUS45 KMSO 242230
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
430 PM MDT SAT JUN 24 2023

.....

...THE KALISPELL MT CLIMATE SUMMARY FOR JUNE 24 2023...
VALID TODAY AS OF 0400 PM LOCAL TIME.
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CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1894 TO 2023

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
TODAY							
MAXIMUM	78	257 PM	90	1986	73	5	66
MINIMUM	53	545 AM	29	1985	45	8	36
AVERAGE	66				59	7	51
PRECIPITATION (IN)							
TODAY	T		1.74	1911	0.09	-0.09	0.00
MONTH TO DATE	0.63				2.35	-1.72	4.59
SINCE OCT 1	9.22				13.20	-3.98	15.52
SINCE JAN 1	5.04				9.00	-3.96	10.73
SNOWFALL (IN)							
TODAY	0.0						
MONTH TO DATE	0.0						
SINCE JUN 1	0.0						
SINCE JUL 1	49.9						
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
TODAY	0				6	-6	14
MONTH TO DATE	115				200	-85	200
SINCE JUN 1	115				200	-85	200
SINCE JUL 1	8016				8074	-58	7924
COOLING							
TODAY	1				1	0	0
MONTH TO DATE	25				1	24	8
SINCE JUN 1	25				1	24	8
SINCE JAN 1	33				2	31	8

WIND (MPH)
HIGHEST WIND SPEED 14 HIGHEST WIND DIRECTION S (160)
HIGHEST GUST SPEED 22 HIGHEST GUST DIRECTION SE (130)
AVERAGE WIND SPEED 3.5

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.4

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   97   300 AM
 LOWEST   31   300 PM
 AVERAGE   64

.....

THE KALISPELL MT CLIMATE NORMALS FOR TOMORROW
                          NORMAL   RECORD   YEAR
 MAXIMUM TEMPERATURE (F)   74   93   1962
 MINIMUM TEMPERATURE (F)   45   31   1985

SUNRISE AND SUNSET
JUNE 24 2023.....SUNRISE   537 AM MDT   SUNSET   942 PM MDT
JUNE 25 2023.....SUNRISE   537 AM MDT   SUNSET   942 PM MDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**9/25/2023**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Marion-Alvey / 500kV	**41/2**

Date Outage Occurred	Outage ID	Duration of Outage
9/24/2023	**224986**	**276 Minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☑ **Other:** **Logging**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	**19"**	**112**

LOCATION OF TREE

Distance from Centerline **89'** Manage ROW Width **150' (75' on either side)**

☐	Uphill	☑	Left Side		
☐	Downhill		%Slope of ground	%	
☐	Right Side		On or Off ROW?	☐ On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

No one on site during my inspection on 9/25/2023, 10:00 am.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Outage caused by logger. Attached to this report is additional information and initial findings from TLM.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code MA-12-11 Retention Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Astoria - KAST
Aurora - KUAO
Eugene - KEUG
Hillsboro - KHIO
McMinnville - KMMV
Portland - KPDX
Redmond - KRDM

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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CDUS46 KPQR 250221
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
721 PM PDT SUN SEP 24 2023

.....

...THE EUGENE OR CLIMATE SUMMARY FOR SEPTEMBER 24 2023...
VALID TODAY AS OF 0700 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2023

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM        62    424 PM  96    1974  75    -13       82
  MINIMUM        49    552 AM  30    1926  46      3       45
  AVERAGE        56                        61     -5       64

PRECIPITATION (IN)
  TODAY           0.22          0.95 1927   0.05   0.17     0.00
  MONTH TO DATE   0.30                      1.02  -0.72     0.02
  SINCE OCT 1    27.24                     40.46 -13.22    38.05
  SINCE JAN 1    15.06                     24.10  -9.04    18.99

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUL 1     0.0

DEGREE DAYS
 HEATING
  TODAY           9                         5      4        1
  MONTH TO DATE  48                        67    -19       25
  SINCE SEP 1    48                        67    -19       25
  SINCE JUL 1    54                       115    -61       29

 COOLING
  TODAY           0                         1     -1        0
  MONTH TO DATE  48                        36     12       58
  SINCE SEP 1    48                        36     12       58
  SINCE JAN 1   588                       290    298      503
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WIND (MPH)
  HIGHEST WIND SPEED     16   HIGHEST WIND DIRECTION     E (80)
  HIGHEST GUST SPEED     22   HIGHEST GUST DIRECTION     E (70)
  AVERAGE WIND SPEED      3.7

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    97           300 AM
 LOWEST     83           100 PM
 AVERAGE    90

.....................................................

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    75        93      1991
 MINIMUM TEMPERATURE (F)    46        31      1926

SUNRISE AND SUNSET
SEPTEMBER 24 2023.....SUNRISE   702 AM PDT   SUNSET   707 PM PDT
SEPTEMBER 25 2023.....SUNRISE   703 AM PDT   SUNSET   705 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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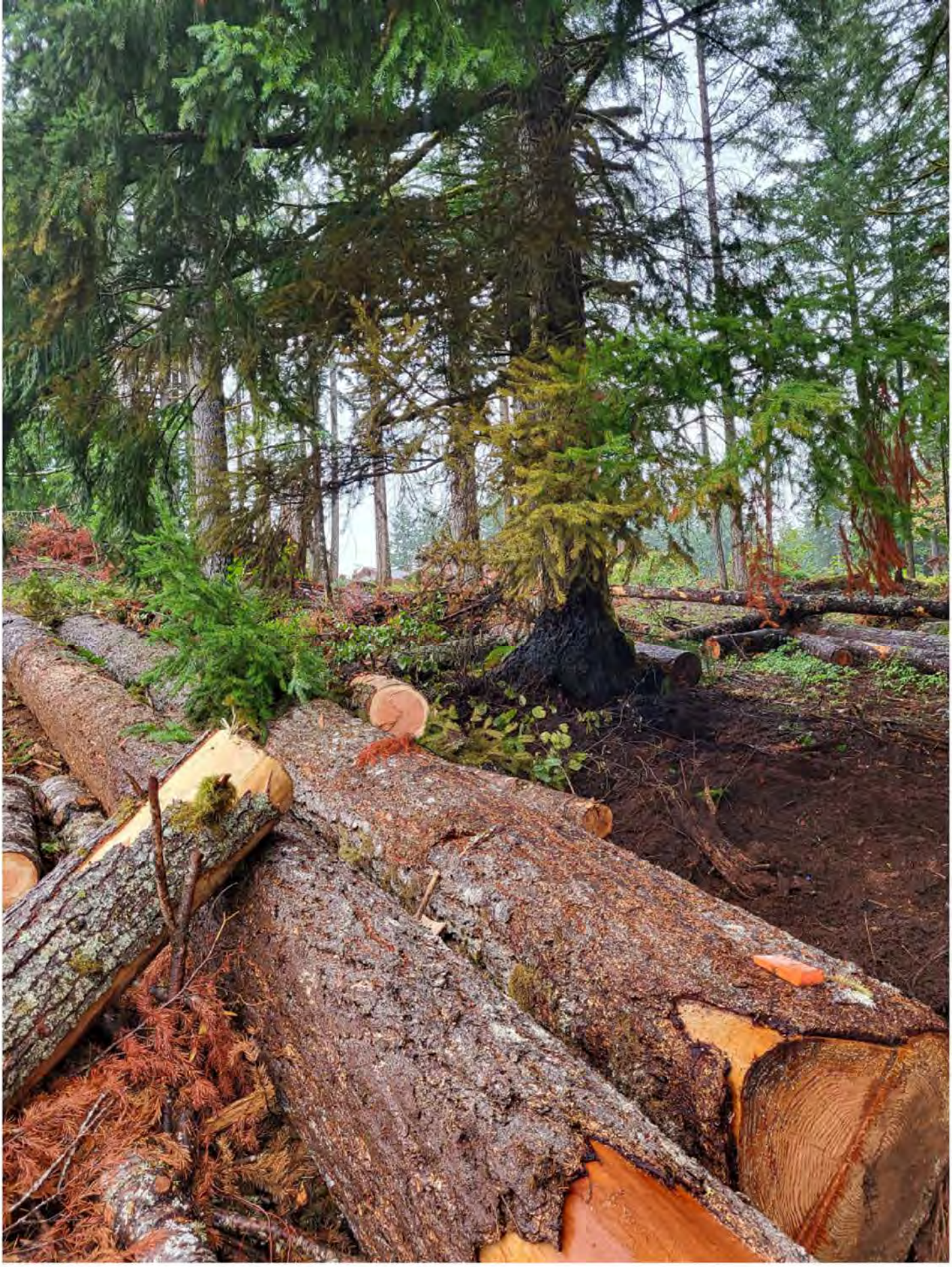
Nimmo,Jace H (CONTR) - TFBV-DOB-1

From:	Wenzl,Nicholas J (BPA) - TFEF-ALVEY
Sent:	Monday, September 25, 2023 6:56 AM
To:	Coulombe,Dale A (BPA) - TFE-ALVEY; Syverson,Kurt R (BPA) - TEZM-TSB-1; Meloy,Christopher A (BPA) - TFEB-ALVEY; Schuch,Richard W (BPA) - NNT-1; Mora Flores,Carlos (BPA) - TFBV-ALVEY
Cc:	Martinez,Vince R (BPA) - TFEF-ALVEY
Subject:	marion-alvey outage
Attachments:	FW: Marion-Alvey 1 500kv Line; 20230924_170402.jpg

Hello everyone, just a quick note about the outage yesterday. As in the email a logger had cut a tree and it fell into the line, there were 2 people involved, the one that cut the tree fled the area. There were 2 sheriffs on site and in the process of locating that person. I mentioned multiple times that both parties involved should seek medical attention. I was told that the person that cut the tree was standing at the base when the tree relayed the line, also when they test energized 2 more times I believe. I'll be filling out a tree caused outage report and incident report this morning.

Nick J Wenzl
TLM Foreman III
Eugene, OR
Office 541 988-7051











BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**10/3/2023**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
KITS-BNGR-1 / 115KV	**3/1**

Date Outage Occurred	Outage ID	Duration of Outage
10/3/2023	**225012**	**680 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug fir	**18"**	**115'**

LOCATION OF TREE

Distance from Centerline **80** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground **20** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

31370441

Climate

Weather.gov > Seattle/Tacoma, WA > Climate

Seattle/Tacoma, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PDT TUE OCT 03 2023

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR OCTOBER 2 2023...
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BPA-2025-03068-F 0871

31370441

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2023

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	56	1159 PM	83	2022	66	-10	83
MINIMUM	44	101 AM	30	1950	43	1	43
AVERAGE	50				55	-5	63
PRECIPITATION (IN)							
YESTERDAY	0.29		1.06	2007	0.11	0.18	0.00
MONTH TO DATE	0.29				0.21	0.08	0.00
SINCE OCT 1	0.29				0.21	0.08	0.00
SINCE JAN 1	21.44				29.70	-8.26	32.21
DEGREE DAYS							
HEATING							
YESTERDAY	15				10	5	2
MONTH TO DATE	27				20	7	5
SINCE SEP 1	194				203	-9	94
SINCE JUL 1	247				343	-96	168
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	11				8	3	11
SINCE JAN 1	203				113	90	241

WIND (MPH)
RESULTANT WIND SPEED 7 RESULTANT WIND DIRECTION SW (210)
HIGHEST WIND SPEED 14 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 21 HIGHEST GUST DIRECTION SW (210)
AVERAGE WIND SPEED 7.1

SKY COVER
AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

BPA-2025-03068-F 0872

31370441

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   97   900 PM
 LOWEST   86   500 AM
 AVERAGE   92

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THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	66	83	1993
MINIMUM TEMPERATURE (F)	43	28	1989

SUNRISE AND SUNSET
OCTOBER 3 2023.....SUNRISE   713 AM PDT   SUNSET   647 PM PDT
OCTOBER 4 2023.....SUNRISE   714 AM PDT   SUNSET   645 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA-2025-03068-F 0873

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/9/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Marion-Alvey No. 1 / 500kV	50/4

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225336	242 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	30	92

LOCATION OF TREE

Distance from Centerline 98 — Manage ROW Width 150 (75' from centerline)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Logging fringe due to recent logging activities. At the time of inspection, I noticed 4 additional fringe trees on the right side and 7 on the left side. These trees are scheduled to be removed by the Veg contractor.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

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Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

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There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1159 PM  65    1928  47      2        53
  MINIMUM         40    135 AM   6    1937  35      5        35
  AVERAGE         45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959    0.21   0.08     0.11
  MONTH TO DATE  1.39                       1.69  -0.30     1.11
  SINCE OCT 1   13.96                      18.05  -4.09    13.29
  SINCE JAN 1    1.39                       1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                        24     -4       21
  MONTH TO DATE  176                       194    -18      168
  SINCE DEC 1    762                       952   -190      924
  SINCE JUL 1   1721                      2049   -328     1882

 COOLING
  YESTERDAY       0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE DEC 1     0                         0      0        0
  SINCE JAN 1     0                         0      0        0
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WIND (MPH)
  HIGHEST WIND SPEED   25   HIGHEST WIND DIRECTION   SE (130)
  HIGHEST GUST SPEED   32   HIGHEST GUST DIRECTION   SE (140)
  AVERAGE WIND SPEED   13.7

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   89   1200 AM
 LOWEST   80   900 PM
 AVERAGE   85

THE EUGENE OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	47	63	1990
MINIMUM TEMPERATURE (F)	35	10	1974

SUNRISE AND SUNSET
JANUARY 9 2024.....SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.....SUNRISE   747 AM PST   SUNSET   454 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/10/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holden Creek No. 1 115kV	2/4

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225367	14 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* Blowing North	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	24"	150ft

LOCATION OF TREE

Distance from Centerline 124' Manage ROW Width 100' (50' From centerline)

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree fell due to high winds and strong wind.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

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Portland P
Redmond R

Storm Event Database (NCEI)

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There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM        49   1159 PM  65    1928  47      2        53
  MINIMUM        40    135 AM   6    1937  35      5        35
  AVERAGE        45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959   0.21   0.08     0.11
  MONTH TO DATE  1.39                      1.69  -0.30     1.11
  SINCE OCT 1   13.96                     18.05  -4.09    13.29
  SINCE JAN 1    1.39                      1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                       24     -4       21
  MONTH TO DATE  176                      194    -18      168
  SINCE DEC 1    762                      952   -190      924
  SINCE JUL 1   1721                     2049   -328     1882

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
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WIND (MPH)
  HIGHEST WIND SPEED   25   HIGHEST WIND DIRECTION   SE (130)
  HIGHEST GUST SPEED   32   HIGHEST GUST DIRECTION   SE (140)
  AVERAGE WIND SPEED   13.7

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   89   1200 AM
 LOWEST   80   900 PM
 AVERAGE   85

THE EUGENE OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	47	63	1990
MINIMUM TEMPERATURE (F)	35	10	1974

SUNRISE AND SUNSET
JANUARY 9 2024.....SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.....SUNRISE   747 AM PST   SUNSET   454 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/10/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No. 1 115kV	**29/1**

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	**225329**	**2512 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**20"**	**87'**

LOCATION OF TREE

Distance from Centerline **67'** Manage ROW Width **100' (50' From centerline)**

☑	Uphill	☑	Left Side		
☐	Downhill		% Slope of ground	%	
☐	Right Side		On or Off ROW?	☐ On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree fell due to rain and strong wind.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

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Redmond R

Storm Event Database (NCEI)

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1159 PM  65    1928  47      2        53
  MINIMUM         40    135 AM   6    1937  35      5        35
  AVERAGE         45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959   0.21   0.08     0.11
  MONTH TO DATE  1.39                      1.69  -0.30     1.11
  SINCE OCT 1   13.96                     18.05  -4.09    13.29
  SINCE JAN 1    1.39                      1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                       24     -4       21
  MONTH TO DATE  176                      194    -18      168
  SINCE DEC 1    762                      952   -190      924
  SINCE JUL 1   1721                     2049   -328     1882

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
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WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION    SE (140)
  AVERAGE WIND SPEED    13.7

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          1200 AM
 LOWEST     80           900 PM
 AVERAGE    85

.....

THE EUGENE OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        63      1990
 MINIMUM TEMPERATURE (F)   35        10      1974

SUNRISE AND SUNSET
JANUARY  9 2024.......SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.......SUNRISE   747 AM PST   SUNSET   454 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/11/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
OLYM-CHEH-1	**8/7**

Date Outage Occurred	Outage ID	Duration of Outage
1/10/2024	**225386**	**5hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**10 to 12"**	**100 to 110'**

LOCATION OF TREE

Distance from Centerline **80'** Manage ROW Width **50'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **20** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

We have had two outages in this location in the last two years, forestry should complete a DT patrol in this area.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible] WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
a iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Forecast | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 100926
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST WED JAN 10 2024

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 9 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1211 AM  57    2010  45      4        53
  MINIMUM         35   1135 PM   6    1974  33      2        36
  AVERAGE         42                       39      3        45

PRECIPITATION (IN)
  YESTERDAY        0.53          3.82 1990   0.26   0.27     0.33
  MONTH TO DATE    2.84                      2.34   0.50     1.63
  SINCE OCT 1     23.20                     23.47  -0.27    20.71
  SINCE JAN 1      2.84                      2.34   0.50     1.63

DEGREE DAYS
 HEATING
  YESTERDAY       23                        26     -3       20
  MONTH TO DATE  206                       234    -28      221
  SINCE DEC 1    803                      1045   -242     1055
  SINCE JUL 1   2003                      2476   -473     2320

 COOLING
  YESTERDAY        0                         0      0        0
  MONTH TO DATE    0                         0      0        0
  SINCE DEC 1      0                         0      0        0
  SINCE JAN 1      0                         0      0        0
.....

WIND (MPH)
  RESULTANT WIND SPEED  11   RESULTANT WIND DIRECTION  SW (220)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SW (240)
  HIGHEST GUST SPEED    40   HIGHEST GUST DIRECTION    SW (240)
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  AVERAGE WIND SPEED    11.7

SKY COVER
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  LIGHT SNOW
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     92          1100 PM
 LOWEST      68          1100 AM
 AVERAGE     80

.....................................................

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   45        57      1961
 MINIMUM TEMPERATURE (F)   33         8      1969

SUNRISE AND SUNSET
JANUARY 10 2024.......SUNRISE   755 AM PST   SUNSET   443 PM PST
JANUARY 11 2024.......SUNRISE   755 AM PST   SUNSET   444 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/12/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
HOLC-NASE-1 / 115kV	**1/4**

Date Outage Occurred	Outage ID	Duration of Outage
1/7/2024	**225297**	**1099 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir		

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree top broke and sailed from off row in heavy winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible] WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
a iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 070933
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
133 AM PST SUN JAN 07 2024

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 6 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         50   1158 AM  56    2002  45      5        48
  MINIMUM         32   1155 PM   3    1979  33     -1        34
  AVERAGE         41                       39      2        41

PRECIPITATION (IN)
  YESTERDAY        0.35          3.99 2022   0.26   0.09     0.36
  MONTH TO DATE    1.18                      1.56  -0.38     0.56
  SINCE OCT 1     21.54                     22.69  -1.15    19.64
  SINCE JAN 1      1.18                      1.56  -0.38     0.56

DEGREE DAYS
 HEATING
  YESTERDAY       24                        26     -2       24
  MONTH TO DATE  134                       156    -22      153
  SINCE DEC 1    731                       967   -236      997
  SINCE JUL 1   1931                      2398   -467     2252

 COOLING
  YESTERDAY       0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE DEC 1     0                         0      0        0
  SINCE JAN 1     0                         0      0        0
.....

WIND (MPH)
  RESULTANT WIND SPEED    8   RESULTANT WIND DIRECTION   SW (220)
  HIGHEST WIND SPEED     29   HIGHEST WIND DIRECTION      S (180)
  HIGHEST GUST SPEED     43   HIGHEST GUST DIRECTION      S (170)
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  AVERAGE WIND SPEED     8.9

SKY COVER
  AVERAGE SKY COVER 0.5

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     92          1000 PM
 LOWEST      58          1000 AM
 AVERAGE     75

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    45         57       2002
 MINIMUM TEMPERATURE (F)    33          6       1979

SUNRISE AND SUNSET
JANUARY  7 2024.....SUNRISE   756 AM PST   SUNSET   439 PM PST
JANUARY  8 2024.....SUNRISE   756 AM PST   SUNSET   440 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Marti	The Dalles	1/16/2023

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Cascade Locks-Hood River section of Bonneville PH 1-Hood River No	9/8

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2023	225498	817 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* East	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	18	110

LOCATION OF TREE

Distance from Centerline 80 Manage ROW Width 75

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground 20 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree appered health. Uprooted with small root ball showing sings of broken roots from root rot fungis.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

c innville
Portland P
Redmond R
Rose rg R
alem
ca oose P
ro dale

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 15 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | Oldest | Click for access to archived data.

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CDUS46 KPDT 140834
CLIDLS

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
1234 AM PST SUN JAN 14 2024

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...THE DALLESPORT WA CLIMATE SUMMARY FOR JANUARY 13 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         13   1252 AM  65    1994  42    -29       51
  MINIMUM          6    816 PM  -2    1950  31    -25       43
  AVERAGE         10                       37    -27       47

PRECIPITATION (IN)
  YESTERDAY       MM             1.00 1980   0.08  MM         0.01
  MONTH TO DATE  1.19                        1.13   0.06      0.91
  SINCE OCT 1    6.96                        6.92   0.04      5.14
  SINCE JAN 1    1.19                        1.13   0.06      0.91

DEGREE DAYS
 HEATING
  YESTERDAY       55                        29     26        18
  MONTH TO DATE  366                       382    -16       313
  SINCE DEC 1   1091                      1279   -188      1252
  SINCE JUL 1   2038                      2352   -314      2144

 COOLING
  YESTERDAY       0                         0      0         0
  MONTH TO DATE   0                         0      0         0
  SINCE DEC 1     0                         0      0         0
  SINCE JAN 1     0                         0      0         0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED   8   RESULTANT WIND DIRECTION  SE (120)
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  HIGHEST WIND SPEED    17   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    23   HIGHEST GUST DIRECTION    SE (120)

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY SNOW
  SNOW
  LIGHT SNOW
  FOG
  FOG W/VISIBILITY <= 1/4 MILE
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     87
 LOWEST      50
 AVERAGE     69

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THE DALLESPORT WA CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    42        59       1987
 MINIMUM TEMPERATURE (F)    31         0       1950

SUNRISE AND SUNSET
JANUARY 14 2024.....SUNRISE   742 AM PST   SUNSET   446 PM PST
JANUARY 15 2024.....SUNRISE   741 AM PST   SUNSET   447 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Fred Wensenk	Longview	1/15/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Knight-Ostrander No. 1	78/2

Date Outage Occured	Outage ID	Duration of Outage
1/13/2024	225446	49 Hours, 23 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* E 53 MPH GUSTS	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	36"	110'

LOCATION OF TREE

Distance from Centerline 76' +(estimate) TLM confirmed tree was off-ROW Manage ROW Width 75'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Information provided from Fred Wensend TLM Foreman 3-The Dalles via Jake Marti(NRS). Brian Luis(NRS) submitted report. Uprooted tree caused from major storm.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR


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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
422 PM PST SAT JAN 13 2024

.....................................

...THE TROUTDALE OR CLIMATE SUMMARY FOR JANUARY 13 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2024


WEATHER ITEM   OBSERVED TIME   NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE  FROM      YEAR
                                       NORMAL
.....................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         21   1222 AM  46    -25       52
  MINIMUM         14    359 PM  37    -23       47
  AVERAGE         18            42    -24       50

PRECIPITATION (IN)
  TODAY            T             0.16  -0.16     0.17
  MONTH TO DATE    4.03          2.26   1.77     1.62
  SINCE OCT 1     21.51         18.26   3.25    16.39
  SINCE JAN 1      4.03          2.26   1.77     1.62

DEGREE DAYS
 HEATING
  TODAY           47            23     24       15
  MONTH TO DATE  309           307      2      253

 COOLING
  TODAY            0             0      0        0
  MONTH TO DATE    0             0      0        0
.....................................................


WIND (MPH)
  HIGHEST WIND SPEED    38   HIGHEST WIND DIRECTION     E (80)
  HIGHEST GUST SPEED    53   HIGHEST GUST DIRECTION     E (70)
  AVERAGE WIND SPEED    26.8


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  SNOW
  LIGHT SNOW
  BLOWING SNOW
```

```
RELATIVE HUMIDITY (PERCENT)
 HIGHEST     77           200 PM
 LOWEST      49           700 AM
 AVERAGE     63

.....

THE TROUTDALE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)   46         61       1991
 MINIMUM TEMPERATURE (F)   37         11       1950


SUNRISE AND SUNSET
JANUARY 13 2024.......SUNRISE   747 AM PST   SUNSET   450 PM PST
JANUARY 14 2024.......SUNRISE   747 AM PST   SUNSET   451 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 19th, 2023 19:10 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Fred Wensenk	**The Dalles**	**1/12/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Alfalfa section of North Bonneville-Midway No 1	**14/1**

Date Outage Occured	Outage ID	Duration of Outage
1/12/2024	**225408**	**899 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* **East**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**10**	**100**

LOCATION OF TREE

Distance from Centerline **77** Manage ROW Width **150**

☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground **30** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tall spindly tree with heavey snow load, winds, and root rot caused it fall into the line .

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Portland P
Redmond R
Rose rg R
alem
ca oose P
he alles
ro tdale

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CDUS46 KPQR 121242
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
442 AM PST FRI JAN 12 2024

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR JANUARY 11 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         46    214 PM  58    2014  47     -1        48
                                      2018
  MINIMUM         37    737 AM  -2    1909  34      3        42
  AVERAGE         42                        40      2        45

PRECIPITATION (IN)
  YESTERDAY      0.20                        0.18   0.02     0.32
  MONTH TO DATE  3.58                        2.04   1.54     1.73

DEGREE DAYS
 HEATING
  YESTERDAY       23                                  20
  MONTH TO DATE  249                                 246
  SINCE JUL 1   1757                                1941

 COOLING
  YESTERDAY        0                                   0
  MONTH TO DATE    0                                   0
  SINCE JAN 1      0                                   0
-------------------------------------------------------------------

WIND (MPH)
  HIGHEST WIND SPEED    15   HIGHEST WIND DIRECTION     W (250)
  HIGHEST GUST SPEED    22   HIGHEST GUST DIRECTION    SW (240)
  AVERAGE WIND SPEED   6.5
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```
SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          100 AM
 LOWEST     73         1100 AM
 AVERAGE    81

.....................................................

SUNRISE AND SUNSET
JANUARY 12 2024.....SUNRISE   749 AM PST   SUNSET   449 PM PST
JANUARY 13 2024.....SUNRISE   748 AM PST   SUNSET   450 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Fred Wensenk	**The Dalles**	**1/13/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Alfalfa section of North Bonneville-Midway No 1	**14/1**

Date Outage Occured	Outage ID	Duration of Outage
1/13/2024	**225429**	**120 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* **East**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**10**	**100**

LOCATION OF TREE

Distance from Centerline **77** Manage ROW Width **150**

☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground **30** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM reported the tree was found in the same span as the day befores outage. The tree was simalar in size as the days before. Tall spindly tree with heavey snow load, winds, and root rot caused it fail into the line.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Portland P
Redmond R
Rose rg R
alem
ca oose P
he alles
ro tdale

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CDUS46 KPQR 121242
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
442 AM PST FRI JAN 12 2024

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR JANUARY 11 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         46    214 PM  58    2014  47     -1        48
                                      2018
  MINIMUM         37    737 AM  -2    1909  34      3        42
  AVERAGE         42                        40      2        45

PRECIPITATION (IN)
  YESTERDAY      0.20                        0.18   0.02     0.32
  MONTH TO DATE  3.58                        2.04   1.54     1.73

DEGREE DAYS
 HEATING
  YESTERDAY       23                                  20
  MONTH TO DATE  249                                 246
  SINCE JUL 1   1757                                1941

 COOLING
  YESTERDAY        0                                   0
  MONTH TO DATE    0                                   0
  SINCE JAN 1      0                                   0
-------------------------------------------------------------------

WIND (MPH)
  HIGHEST WIND SPEED    15   HIGHEST WIND DIRECTION     W (250)
  HIGHEST GUST SPEED    22   HIGHEST GUST DIRECTION    SW (240)
  AVERAGE WIND SPEED   6.5
```

```
SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          100 AM
 LOWEST     73         1100 AM
 AVERAGE    81

.....................................................

SUNRISE AND SUNSET
JANUARY 12 2024.......SUNRISE   749 AM PST   SUNSET   449 PM PST
JANUARY 13 2024.......SUNRISE   748 AM PST   SUNSET   450 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	Longview	1/22/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville PH-Alcoa No. 2 / 115kV	18/3

Date Outage Occurred	Outage ID	Duration of Outage
1/20/2024	225640 & 225642	712 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)* West	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	25"	130'

LOCATION OF TREE

Distance from Centerline 100' Manage ROW Width 100

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 15 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Same tree caused outages on BOPH-ALCO-2 and BOPH-NCAM-1. Uprooted tree destabilized from snow and ice. Located 200' BOL from 18/4.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR


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CDUS46 KPQR 201241
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST SAT JAN 20 2024

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR JANUARY 19 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         39    327 PM  62    1986  47     -8       43
  MINIMUM         32   1159 PM   6    1916  35     -3       32
  AVERAGE         36                       41     -5       38

PRECIPITATION (IN)
  YESTERDAY        T                        0.17  -0.17     0.00
  MONTH TO DATE    4.93                     3.42   1.51     3.13

DEGREE DAYS
 HEATING
  YESTERDAY       29                                       27
  MONTH TO DATE  550                                      405
  SINCE JUL 1   2058                                     2100

 COOLING
  YESTERDAY        0                                       0
  MONTH TO DATE    0                                       0
  SINCE JAN 1      0                                       0
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED     7   HIGHEST WIND DIRECTION     W (260)
  HIGHEST GUST SPEED    10   HIGHEST GUST DIRECTION    SE (140)
  AVERAGE WIND SPEED     1.1


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.3


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    85           400 AM
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LOWEST     67          100 AM
AVERAGE    76

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SUNRISE AND SUNSET
JANUARY 20 2024.......SUNRISE   744 AM PST   SUNSET   459 PM PST
JANUARY 21 2024.......SUNRISE   743 AM PST   SUNSET   501 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.



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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: PQR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 19th, 2023 19:10 UTC

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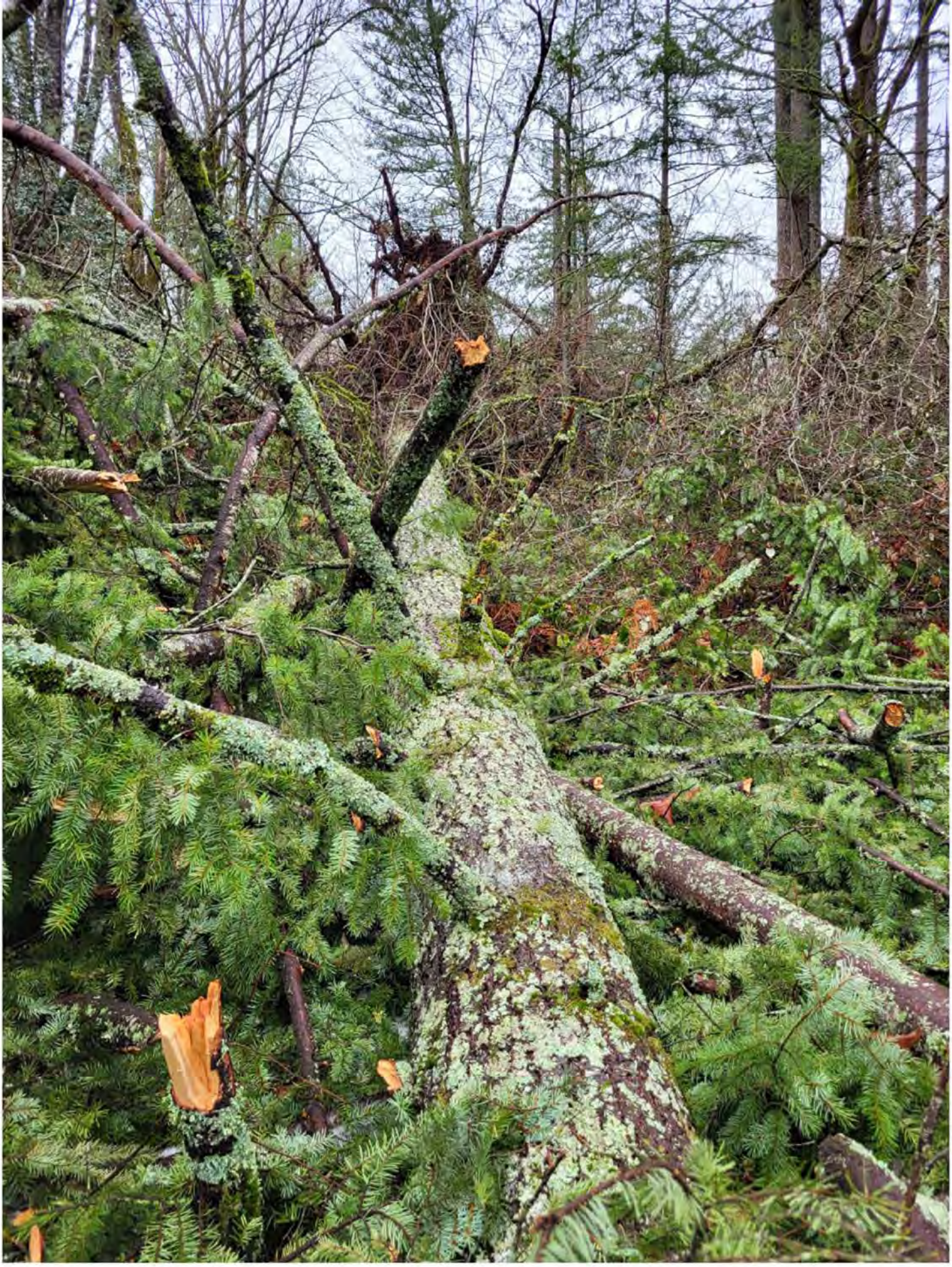

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	Longview	1/22/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Bonneville PH1-Alcoa No. 2	16/7

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2024	225461 &225471	3242 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SE 33MPH GUSTS	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	28"	115'

LOCATION OF TREE

Distance from Centerline 74' Manage ROW Width 100

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 5 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Major storm caused tree to uproot due to heavy snow, ice, and wind. AHOL 315' from 16/7. Tree caused outage on BOPH-ALCO-2 and BOPH-NCAM-1. This tree is likely responsible for outage ID 225453 and 225466. Several other tree failures occurred in the nearby.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Portland, OR

Climatological Report (Daily)

Issued by NWS Portland, OR

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CDUS46 KPQR 140022
CLIVUO

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
422 PM PST SAT JAN 13 2024

.....

...THE VANCOUVER WA CLIMATE SUMMARY FOR JANUARY 13 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1891 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         22   1259 AM  61    2021  47    -25       52
  MINIMUM         17    322 PM   7    1909  34    -17       44
                                      1930
  AVERAGE         20                       40    -20       48

PRECIPITATION (IN)
  TODAY           0.16                     0.17  -0.01     0.26

DEGREE DAYS
 HEATING
  TODAY           45                                       17
  MONTH TO DATE  327                                      280
  SINCE DEC 1    945                                     1102
  SINCE JUL 1   1835                                     1975
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COOLING
  TODAY            0                                       0
  MONTH TO DATE    0                                       0
  SINCE DEC 1      0                                       0
  SINCE JAN 1      0                                       0
.....

WIND (MPH)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION     E (110)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION    SE (120)
  AVERAGE WIND SPEED    14.3

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT SNOW

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    73          1100 AM
 LOWEST     54           700 AM
 AVERAGE    64

.....

THE VANCOUVER WA CLIMATE NORMALS FOR TOMORROW
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        59      1991
                                             2011
 MINIMUM TEMPERATURE (F)   34        -1      1909

SUNRISE AND SUNSET
JANUARY 13 2024.....SUNRISE   748 AM PST   SUNSET   450 PM PST
JANUARY 14 2024.....SUNRISE   748 AM PST   SUNSET   452 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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National Weather Service
Portland, OR Weather Forecast Office
5241 NE 122nd Avenue
Portland, OR 97230-1089
(503) 261-9246
Page Author: POR Webmaster
Web Master's E-mail: w-pqr.webmaster@noaa.gov
Page last modified: Sep 19th, 2023 19:10 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Marti	The Dalles	1/23/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Alfalfa section of North Bonneville-Midway No 1	34/6

Date Outage Occured	Outage ID	Duration of Outage
1/19/2024	225623	228 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* East	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☑ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	28	110

LOCATION OF TREE

Distance from Centerline 98 Manage ROW Width 300

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Multiple trees hit the line in this location over the period of a few days. Heavy snow load 3 to 4 feet with 3/4" of ice on top. There where tree failures happening as the line was being cleared. Some of the trees broke off 40' up. Others where uprooted.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

c innville
Portland P
Redmond R
Rose rg R
alem
ca oose P
ro tdale

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KPDT 190835
CLIDLS

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
1235 AM PST FRI JAN 19 2024

.....

...THE DALLESPORT WA CLIMATE SUMMARY FOR JANUARY 18 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM        27    344 AM  63    1975  42     -15       49
  MINIMUM        23   1149 PM   2    1957  31      -8       39
  AVERAGE        25                       37     -12       44

PRECIPITATION (IN)
  YESTERDAY      MM             0.92 2012   0.07  MM         0.01
  MONTH TO DATE  1.19                       1.49  -0.30      1.03
  SINCE OCT 1    6.96                       7.28  -0.32      5.26
  SINCE JAN 1    1.19                       1.49  -0.30      1.03

DEGREE DAYS
 HEATING
  YESTERDAY      40                        28     12        21
  MONTH TO DATE  621                      526     95       415
  SINCE DEC 1   1346                     1423    -77      1354
  SINCE JUL 1   2293                     2496   -203      2246

 COOLING
  YESTERDAY      0                         0      0         0
  MONTH TO DATE  0                         0      0         0
  SINCE DEC 1    0                         0      0         0
  SINCE JAN 1    0                         0      0         0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED   6   RESULTANT WIND DIRECTION   E (80)
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  HIGHEST WIND SPEED    21   HIGHEST WIND DIRECTION     E (70)
  HIGHEST GUST SPEED    27   HIGHEST GUST DIRECTION    NE (60)

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  MIXED PRECIP
  LT FREEZING RAIN
  HEAVY SNOW
  SNOW
  LIGHT SNOW
  FOG
  FOG W/VISIBILITY <= 1/4 MILE
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     92
 LOWEST      78
 AVERAGE     85

.....................................................

THE DALLESPORT WA CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    42        54       1972
 MINIMUM TEMPERATURE (F)    31         0       1954

SUNRISE AND SUNSET
JANUARY 19 2024.......SUNRISE   739 AM PST   SUNSET   452 PM PST
JANUARY 20 2024.......SUNRISE   738 AM PST   SUNSET   454 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Marti	The Dalles	1/23/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Alfalfa section of North Bonneville-Midway No 1	34/6

Date Outage Occured	Outage ID	Duration of Outage
1/21/2024	225644	2122 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* East	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☑ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	31	140

LOCATION OF TREE

Distance from Centerline 98 Manage ROW Width 300

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Multiple trees hit the line in this location over the period of a few days. Heavy snow load 3 to 4 feet with 3/4" of ice on top.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

c innville
Portland P
Redmond R
Rose rg R
alem
ca oose P
ro dale

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KPDT 210833
CLIDLS

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
1233 AM PST SUN JAN 21 2024

.....

...THE DALLESPORT WA CLIMATE SUMMARY FOR JANUARY 20 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         31   1159 PM  61    2022  43     -12       47
  MINIMUM         26    132 AM  -8    1954  31      -5       28
  AVERAGE         29                       37      -8       38

PRECIPITATION (IN)
  YESTERDAY        T             1.21 1972   0.07  -0.07     0.00
  MONTH TO DATE    1.19                      1.63  -0.44     1.03
  SINCE OCT 1      6.96                      7.42  -0.46     5.26
  SINCE JAN 1      1.19                      1.63  -0.44     1.03

DEGREE DAYS
 HEATING
  YESTERDAY       36                        28      8       27
  MONTH TO DATE  696                       582    114      464
  SINCE DEC 1   1421                      1479    -58     1403
  SINCE JUL 1   2369                      2552   -184     2295

 COOLING
  YESTERDAY        0                         0      0        0
  MONTH TO DATE    0                         0      0        0
  SINCE DEC 1      0                         0      0        0
  SINCE JAN 1      0                         0      0        0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED    1   RESULTANT WIND DIRECTION  SE (130)
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  HIGHEST WIND SPEED     7   HIGHEST WIND DIRECTION     E (100)
  HIGHEST GUST SPEED     9   HIGHEST GUST DIRECTION     E (70)

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  FREEZING RAIN
  LT FREEZING RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     89
 LOWEST      81
 AVERAGE     85

.....

THE DALLESPORT WA CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   43        65       1968
 MINIMUM TEMPERATURE (F)   31        -8       1962

SUNRISE AND SUNSET
JANUARY 21 2024.....SUNRISE   737 AM PST   SUNSET   455 PM PST
JANUARY 22 2024.....SUNRISE   736 AM PST   SUNSET   456 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	1/11/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Bell-Boundary No 3 / 230kV	77/3

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225338	441 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SW	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	18"	95'

LOCATION OF TREE

Distance from Centerline 62' Manage ROW Width 100'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☑	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was marked DT for FY24 scheduled maintenance project. Tree was dead and broke about 15' up from ground in high winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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CDUS46 KOTX 100845
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1245 AM PST WED JAN 10 2024

.....

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR JANUARY 9 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	39	505 AM	MM	MM	33	6	38
MINIMUM	31	202 AM	MM	MM	21	10	25
AVERAGE	35				27	8	32
PRECIPITATION (IN)							
YESTERDAY	0.17		MM	MM	0.11	0.06	0.21
MONTH TO DATE	0.62				0.94	-0.32	0.60
SINCE OCT 1	7.63				8.77	-1.14	8.54
SINCE JAN 1	0.62				0.94	-0.32	0.60
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	30				38	-8	33
MONTH TO DATE	287				344	-57	304
SINCE DEC 1	1269				1516	-247	1619
SINCE JUL 1	2981				3455	-474	3359
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

.....

WIND (MPH)

HIGHEST WIND SPEED	28	HIGHEST WIND DIRECTION	SW (210)
HIGHEST GUST SPEED	42	HIGHEST GUST DIRECTION	S (200)
AVERAGE WIND SPEED	15.7		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

LIGHT RAIN

LT FREEZING RAIN

LIGHT SNOW

FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	92	400 AM
LOWEST	70	700 PM
AVERAGE	81	

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	33	MM	MM
MINIMUM TEMPERATURE (F)	21	MM	MM

SUNRISE AND SUNSET

JANUARY 10 2024.....	SUNRISE	737 AM PST	SUNSET	417 PM PST
JANUARY 11 2024.....	SUNRISE	737 AM PST	SUNSET	418 PM PST

\- INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Colville-Republic-1 / 115kV	35/1

Date Outage Occured	Outage ID	Duration of Outage
11/6/2023	225105	376 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SW	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Access not possible due to snow and ice accumulation. Inspection will be performed when conditions improve and updated form will be filed. TLM confirmed tree was off-ROW, didn't provide photos due to poor visibility and darkness at the time of outage.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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CDUS46 KOTX 070839
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1239 AM PST TUE NOV 07 2023

.....

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 6 2023...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	48	435 PM	MM	MM	46	2	42
MINIMUM	38	110 AM	MM	MM	28	10	20
AVERAGE	43				37	6	31
PRECIPITATION (IN)							
YESTERDAY	0.47		MM	MM	0.08	0.39	0.00
MONTH TO DATE	2.00				0.50	1.50	1.29
SINCE OCT 1	2.73				2.50	0.23	1.67
SINCE JAN 1	13.64				17.19	-3.55	14.53
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	22				28	-6	34
MONTH TO DATE	142				165	-23	175
SINCE SEP 1	883				1053	-170	745
SINCE JUL 1	933				1178	-245	770
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	10				14	-4	19
SINCE JAN 1	408				216	192	377

.....

WIND (MPH)
HIGHEST WIND SPEED 16 HIGHEST WIND DIRECTION SW (220)
HIGHEST GUST SPEED 22 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 7.6

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

HEAVY RAIN
RAIN
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)
HIGHEST 97 300 PM
LOWEST 80 900 PM
AVERAGE 89

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THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	46	MM	MM
MINIMUM TEMPERATURE (F)	28	MM	MM

SUNRISE AND SUNSET
NOVEMBER 7 2023.....SUNRISE 644 AM PST SUNSET 422 PM PST
NOVEMBER 8 2023.....SUNRISE 645 AM PST SUNSET 421 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Marti	The Dalles	1/23/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
North Bonneville-Alfalfa section of North Bonneville-Midway No 1	34/6

Date Outage Occured	Outage ID	Duration of Outage
1/21/2024	225653	2122 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* East	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	31	140

LOCATION OF TREE

Distance from Centerline 98 Manage ROW Width 300

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground 40 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Multiple trees hit the line in this location over the period of a few days. Heavy snow load 3 to 4 feet with 3/4" of ice on top.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Pendleton, OR

Climatological Report (Daily)

Issued by NWS


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CDUS46 KPDT 220027
CLIYKM

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
427 PM PST SUN JAN 21 2024

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...THE YAKIMA WA CLIMATE SUMMARY FOR JANUARY 21 2024...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1946 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM         35    341 PM  62    1968  40     -5       33
  MINIMUM         29    456 AM -10    1957  24      5       19
  AVERAGE         32                        32      0       26

PRECIPITATION (IN)
  TODAY           0.09          0.23 1954   0.03   0.06     0.01
  MONTH TO DATE   1.06                      0.84   0.22     0.87
  SINCE OCT 1     3.68                      3.78  -0.10     3.92
  SINCE JAN 1     1.06                      0.84   0.22     0.87

DEGREE DAYS
 HEATING
  TODAY           33                        33      0       39
  MONTH TO DATE  825                       714    111      657
  SINCE DEC 1   1632                      1779   -147     1945
  SINCE JUL 1   2961                      3222   -261     3232

 COOLING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE DEC 1     0                         0      0        0
  SINCE JAN 1     0                         0      0        0
.....


WIND (MPH)
  HIGHEST WIND SPEED     6   HIGHEST WIND DIRECTION     E (80)
  HIGHEST GUST SPEED     7   HIGHEST GUST DIRECTION     E (80)
  AVERAGE WIND SPEED     0.2

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  LT FREEZING RAIN
  FOG
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          800 AM
 LOWEST     79         1100 AM
 AVERAGE    84

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THE YAKIMA WA CLIMATE NORMALS FOR TOMORROW
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	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	41	55	1950 2011
MINIMUM TEMPERATURE (F)	25	-3	1969

SUNRISE AND SUNSET
JANUARY 21 2024.....SUNRISE 738 AM PST SUNSET 449 PM PST
JANUARY 22 2024.....SUNRISE 737 AM PST SUNSET 451 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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National Weather Service
Pendleton, OR Weather Forecast Office
2001 NW 56th Drive
Pendleton, OR 97801
(541) 276-7832
Page Author: PDT Webmaster
Web Master's E-mail: w-pdt.webmaster@noaa.gov
Page last modified: Sep 19th, 2023 19:10 UTC

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/12/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1	**30/8**

Date Outage Occurred	Outage ID	Duration of Outage
1/6/2024	**225292**	**575 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**17"**	**130'**

LOCATION OF TREE

Distance from Centerline — Manage ROW Width **50'**

☐	Uphill	☐	Left Side		
☑	Downhill	% Slope of ground **15** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Road to this location has been washed out in several locations and the area shows sighns of sever root rot, many dead and dying trees.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible], WA
WFO Seattle, WA
[illegible] te Air ort, WA
elli gham, WA
[illegible] iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 060926
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SAT JAN 06 2024

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 5 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         48    811 PM  57    2023  45      3        57
  MINIMUM         38    113 AM   4    1979  33      5        34
  AVERAGE         43                       39      4        46

PRECIPITATION (IN)
  YESTERDAY      0.35          1.95 1954   0.25   0.10     0.06
  MONTH TO DATE  0.83                      1.30  -0.47     0.20
  SINCE OCT 1   21.19                     22.43  -1.24    19.28
  SINCE JAN 1    0.83                      1.30  -0.47     0.20

DEGREE DAYS
 HEATING
  YESTERDAY       22                       26     -4       19
  MONTH TO DATE  110                      130    -20      129
  SINCE DEC 1    707                      941   -234      963
  SINCE JUL 1   1907                     2372   -465     2228

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED  11   RESULTANT WIND DIRECTION   S (200)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION     S (180)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION     S (170)
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  AVERAGE WIND SPEED    11.3

SKY COVER
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     89           100 AM
 LOWEST      80          1100 AM
 AVERAGE     85

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    45         56       2002
 MINIMUM TEMPERATURE (F)    33          3       1979

SUNRISE AND SUNSET
JANUARY  6 2024.....SUNRISE   757 AM PST   SUNSET   438 PM PST
JANUARY  7 2024.....SUNRISE   756 AM PST   SUNSET   439 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/7/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1	**33/6**

Date Outage Occurred	Outage ID	Duration of Outage
1/6/2024	**225686**	**13hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**17"**	**90'**

LOCATION OF TREE

Distance from Centerline — Manage ROW Width **50'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **15**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☑ YES ☑ NO

Tree had trunk damage from FS logging activities, logging equipment tore of 5 feet of bark on the back side of the tree.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This area was thinned by the FS leaving trees subject to failure from increased exposer to the wind and mechanicle damage.

Hemlock tree stem broke approximately 20 feet from the root collar.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible], WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
a iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 060926
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SAT JAN 06 2024

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 5 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         48    811 PM  57    2023  45      3        57
  MINIMUM         38    113 AM   4    1979  33      5        34
  AVERAGE         43                       39      4        46

PRECIPITATION (IN)
  YESTERDAY      0.35          1.95 1954    0.25   0.10     0.06
  MONTH TO DATE  0.83                       1.30  -0.47     0.20
  SINCE OCT 1   21.19                      22.43  -1.24    19.28
  SINCE JAN 1    0.83                       1.30  -0.47     0.20

DEGREE DAYS
 HEATING
  YESTERDAY       22                       26     -4       19
  MONTH TO DATE  110                      130    -20      129
  SINCE DEC 1    707                      941   -234      963
  SINCE JUL 1   1907                     2372   -465     2228

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
.....

WIND (MPH)
  RESULTANT WIND SPEED  11   RESULTANT WIND DIRECTION   S (200)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION     S (180)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION     S (170)
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  AVERAGE WIND SPEED    11.3

SKY COVER
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     89           100 AM
 LOWEST      80          1100 AM
 AVERAGE     85

.....................................................

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    45         56       2002
 MINIMUM TEMPERATURE (F)    33          3       1979

SUNRISE AND SUNSET
JANUARY  6 2024.....SUNRISE   757 AM PST   SUNSET   438 PM PST
JANUARY  7 2024.....SUNRISE   756 AM PST   SUNSET   439 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/7/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1	**34/6**

Date Outage Occurred	Outage ID	Duration of Outage
1/6/2024	**225686**	**13hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**13"**	**100'**

LOCATION OF TREE

Distance from Centerline — Manage ROW Width **50'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **15**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☑ YES ☑ NO

FS thinning project.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This area was thinned by the FS leaving trees subject to failure from increased exposer to the wind.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
[illegible] WA
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elli gham, WA
a iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SAT JAN 06 2024

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JANUARY 5 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         48    811 PM  57    2023  45      3        57
  MINIMUM         38    113 AM   4    1979  33      5        34
  AVERAGE         43                       39      4        46

PRECIPITATION (IN)
  YESTERDAY      0.35          1.95 1954    0.25   0.10     0.06
  MONTH TO DATE  0.83                       1.30  -0.47     0.20
  SINCE OCT 1   21.19                      22.43  -1.24    19.28
  SINCE JAN 1    0.83                       1.30  -0.47     0.20

DEGREE DAYS
 HEATING
  YESTERDAY       22                       26     -4       19
  MONTH TO DATE  110                      130    -20      129
  SINCE DEC 1    707                      941   -234      963
  SINCE JUL 1   1907                     2372   -465     2228

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
-------------------------------------------------------------------

WIND (MPH)
  RESULTANT WIND SPEED  11   RESULTANT WIND DIRECTION   S (200)
  HIGHEST WIND SPEED    22   HIGHEST WIND DIRECTION     S (180)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION     S (170)
```

AVERAGE WIND SPEED 11.3

SKY COVER
AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG
HAZE

RELATIVE HUMIDITY (PERCENT)
HIGHEST 89 100 AM
LOWEST 80 1100 AM
AVERAGE 85

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	45	56	2002
MINIMUM TEMPERATURE (F)	33	3	1979

SUNRISE AND SUNSET
JANUARY 6 2024.....SUNRISE 757 AM PST SUNSET 438 PM PST
JANUARY 7 2024.....SUNRISE 756 AM PST SUNSET 439 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/18/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Alvey-Fairview No. 1 / 230 kV	**21/4 +164' AOL**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2024	**225480**	**4 days**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**18"**	**103'**

LOCATION OF TREE

Distance from Centerline **75'** Manage ROW Width **125 (62.5 on either side)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/18/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Alvey-Fairview No. 1 / 230 kV	12/6 +68' AOL

Date Outage Occured	Outage ID	Duration of Outage
1/16/2024	225569	56 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir trees	18" to 26"	89' to 106'

LOCATION OF TREE

Distance from Centerline 65' to 107' Manage ROW Width 125 (62.5 on either side)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.









BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	2/1/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holden Creek No. 1 / 115 kV	2/4 +300' AOL

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225372	1212 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	26"	98'

LOCATION OF TREE

Distance from Centerline 68' — Manage ROW Width 100' (50' on either side)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1159 PM  65    1928  47      2        53
  MINIMUM         40    135 AM   6    1937  35      5        35
  AVERAGE         45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959   0.21   0.08     0.11
  MONTH TO DATE  1.39                      1.69  -0.30     1.11
  SINCE OCT 1   13.96                     18.05  -4.09    13.29
  SINCE JAN 1    1.39                      1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                       24     -4       21
  MONTH TO DATE  176                      194    -18      168
  SINCE DEC 1    762                      952   -190      924
  SINCE JUL 1   1721                     2049   -328     1882

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
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.....|.....|.....|.....|.....|.....|.....|.....

WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION    SE (140)
  AVERAGE WIND SPEED    13.7

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          1200 AM
 LOWEST     80           900 PM
 AVERAGE    85

.....

THE EUGENE OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        63      1990
 MINIMUM TEMPERATURE (F)   35        10      1974

SUNRISE AND SUNSET
JANUARY  9 2024.....SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.....SUNRISE   747 AM PST   SUNSET   454 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	2/1/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Cougar-Holden Creek No. 1 / 115 kV	2/1 +103' AOL

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225371	1212 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	11"	89'

LOCATION OF TREE

Distance from Centerline 63' Manage ROW Width 100' (50' on either side)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CDUS46 KPQR 091241
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
-------------------------------------------------------------------
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1159 PM  65    1928  47      2        53
  MINIMUM         40    135 AM   6    1937  35      5        35
  AVERAGE         45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959   0.21   0.08     0.11
  MONTH TO DATE  1.39                      1.69  -0.30     1.11
  SINCE OCT 1   13.96                     18.05  -4.09    13.29
  SINCE JAN 1    1.39                      1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                       24     -4       21
  MONTH TO DATE  176                      194    -18      168
  SINCE DEC 1    762                      952   -190      924
  SINCE JUL 1   1721                     2049   -328     1882

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
```

WIND (MPH)
  HIGHEST WIND SPEED   25   HIGHEST WIND DIRECTION   SE (130)
  HIGHEST GUST SPEED   32   HIGHEST GUST DIRECTION   SE (140)
  AVERAGE WIND SPEED   13.7

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   89   1200 AM
 LOWEST   80   900 PM
 AVERAGE   85

THE EUGENE OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	47	63	1990
MINIMUM TEMPERATURE (F)	35	10	1974

SUNRISE AND SUNSET
JANUARY 9 2024.....SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.....SUNRISE   747 AM PST   SUNSET   454 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	2/8/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap to Alvey-Martin Creek / 115 kV	2/2 +239' AOL

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	225481	313 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir trees	8"-11"	76'-81'

LOCATION OF TREE

Distance from Centerline 53' Manage ROW Width **100' (50' on either side)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/17/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap to Alvey-Martin Creek / 115 kV	4/4

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	225492	313 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir trees	10"-12"	80'-95'

LOCATION OF TREE

Distance from Centerline 55' to 62' Manage ROW Width **100' (50' on either side)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/17/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap to Alvey-Martin Creek / 115 kV	4/5

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	225493	313 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir trees	11"-14"	86'-95'

LOCATION OF TREE

Distance from Centerline 52' to 65' Manage ROW Width 100' (50' on either side)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/19/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No.1 / 115 kV	**28/5**

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	**225329**	**2512 Minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Several Fir trees	**22"-30"**	**93'-108'**

LOCATION OF TREE

Distance from Centerline **55' to 70'** Manage ROW Width **100' (50' on either side)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

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File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 22 versions of this product stored.

Newest | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Oldest | Click for access to archived data.

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CDUS46 KPQR 091241
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
441 AM PST TUE JAN 09 2024

.....

...THE EUGENE OR CLIMATE SUMMARY FOR JANUARY 8 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
...................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         49   1159 PM  65    1928  47      2        53
  MINIMUM         40    135 AM   6    1937  35      5        35
  AVERAGE         45                       41      4        44

PRECIPITATION (IN)
  YESTERDAY      0.29          1.81 1959   0.21   0.08     0.11
  MONTH TO DATE  1.39                      1.69  -0.30     1.11
  SINCE OCT 1   13.96                     18.05  -4.09    13.29
  SINCE JAN 1    1.39                      1.69  -0.30     1.11

SNOWFALL (IN)
  YESTERDAY      0.0
  MONTH TO DATE  0.0
  SINCE JUL 1    0.0

DEGREE DAYS
 HEATING
  YESTERDAY       20                       24     -4       21
  MONTH TO DATE  176                      194    -18      168
  SINCE DEC 1    762                      952   -190      924
  SINCE JUL 1   1721                     2049   -328     1882

 COOLING
  YESTERDAY       0                        0      0        0
  MONTH TO DATE   0                        0      0        0
  SINCE DEC 1     0                        0      0        0
  SINCE JAN 1     0                        0      0        0
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WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION    SE (130)
  HIGHEST GUST SPEED    32   HIGHEST GUST DIRECTION    SE (140)
  AVERAGE WIND SPEED    13.7

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          1200 AM
 LOWEST     80           900 PM
 AVERAGE    85

.....

THE EUGENE OR CLIMATE NORMALS FOR TODAY
                         NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   47        63      1990
 MINIMUM TEMPERATURE (F)   35        10      1974

SUNRISE AND SUNSET
JANUARY  9 2024.......SUNRISE   747 AM PST   SUNSET   453 PM PST
JANUARY 10 2024.......SUNRISE   747 AM PST   SUNSET   454 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/19/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No.1 / 115 kV	**28/7**

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2024	**225440**	**Still out**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Several Fir trees	**22"-30"**	**93'-108'**

LOCATION OF TREE

Distance from Centerline **55' to 70'** Manage ROW Width **100' (50' on either side)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

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File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/19/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No.1 / 115 kV	**31/4 +1,196' AOL**

Date Outage Occured	Outage ID	Duration of Outage
1/13/2024	**225440**	**Still out**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**24"**	**103'**

LOCATION OF TREE

Distance from Centerline **71'** Manage ROW Width **100' (50' on either side)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/23/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No.2 / 230 kV	22/2 +364' AOL

Date Outage Occurred	Outage ID	Duration of Outage
1/13/2024	225472	Still out

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	21"	98'

LOCATION OF TREE

Distance from Centerline 74' Manage ROW Width 125' (62.5' on either side)

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	1/31/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Marion-Alvey No.1 / 500 kV	61/2 +816' AOL

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	225542	8 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Approx. 4 D. Fir	16"-18"	87'-95'

LOCATION OF TREE

Distance from Centerline 79' — Manage ROW Width **150' (75' on either side)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/9/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Alvey No. 2 / 230 kV	**36/6, 38/4, 38/6, and 60/1**

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	**225501**	**28948 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir	**18"-28"**	**90'-95'**

LOCATION OF TREE

Distance from Centerline **68** Manage ROW Width **125' (62.5' on either side)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.











BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/9/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Thurston-McKenzie No. 1 / 115 kV	**4/1, 4/4, and 4/5**

Date Outage Occurred	Outage ID	Duration of Outage
1/14/2024	**225537**	**5256 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☑ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple Fir	**16"-23"**	**97'-103'**

LOCATION OF TREE

Distance from Centerline **58** Manage ROW Width **100' (50' on either side)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐	On	☑ Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Ice storm related

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.









BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	Covington	2/6/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Sammamish-Maple Valley #1 / 230kV	13/2

Date Outage Occured	Outage ID	Duration of Outage
2/3/2024	225714	5 hours

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	32 inch	120 ft

LOCATION OF TREE

Distance from Centerline 85 Manage ROW Width 75

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☑	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

An off right of way cedar and alder uprooted in wet boggy area and hit another cedar and all three tree hit line. Alder is 14inch dbh, 90ft and cedar is 16 inch dbh and 90ft.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

National Weather Service Weather Forecast Office

Seattle/Tacoma, WA

Climatological Report (Daily)

Issued by NWS

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000
CDUS46 KSEW 020939
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
139 AM PST FRI FEB 02 2024

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 1 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         58    307 PM  63    1962  49      9       47
  MINIMUM         47   1159 PM   1    1950  38      9       32
  AVERAGE         53                       44      9       40

PRECIPITATION (IN)
  YESTERDAY       0.09          1.51 1947   0.15  -0.06     0.00
  MONTH TO DATE   0.09                      0.15  -0.06     0.00
  SINCE OCT 1    23.55                     21.87   1.68    17.98
  SINCE JAN 1     6.40                      5.93   0.47     3.09

SNOWFALL (IN)
  YESTERDAY       0.0           5.8  1989                  0.0
  MONTH TO DATE   0.0                                      0.0
  SINCE OCT 1     T                                        5.9
  SINCE JUL 1     T                                        5.9
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  YESTERDAY      12                        22    -10       25
  MONTH TO DATE  12                        22    -10       25
  SINCE DEC 1  1306                      1420   -114     1488
  SINCE JUL 1  2309                      2481   -172     2438

 COOLING
  YESTERDAY       0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE DEC 1     0                         0      0        0
  SINCE JAN 1     0                         0      0        0
.....


WIND (MPH)
  RESULTANT WIND SPEED   5   RESULTANT WIND DIRECTION  SE (140)
  HIGHEST WIND SPEED    16   HIGHEST WIND DIRECTION     W (250)
  HIGHEST GUST SPEED    24   HIGHEST GUST DIRECTION     W (250)
  AVERAGE WIND SPEED     6.8


SKY COVER
  AVERAGE SKY COVER 0.8


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          400 AM
 LOWEST     61          500 PM
 AVERAGE    77
```

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	49	64	1962
MINIMUM TEMPERATURE (F)	38	8	1950

SUNRISE AND SUNSET

FEBRUARY 2 2024.....	SUNRISE	734 AM PST	SUNSET	512 PM PST
FEBRUARY 3 2024.....	SUNRISE	733 AM PST	SUNSET	513 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

National Weather Service
Seattle/Tacoma, WA Weather Forecast Office
7600 Sand Point Way NE
Seattle, WA 98115-6349
(206) 526-6087
Page Author: SEW Webmaster
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/28/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No. 1 / 115kV	**17/5 +75' AOL**

Date Outage Occurred	Outage ID	Duration of Outage
2/26/2024	**225926**	**256 Minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**16"**	**98'**

LOCATION OF TREE

Distance from Centerline **62'** Manage ROW Width **100' (50' from centerline)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree uprooted due to wind.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Astoria - KAST
Aurora - KUAO
Eugene - KEUG
Hillsboro - KHIO
McMinnville - KMMV
Portland - KPDX
Redmond - KRDM

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 20 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | Oldest | Click for access to archived data.

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CDUS46 KPQR 270220
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
620 PM PST MON FEB 26 2024

.....

...THE EUGENE OR CLIMATE SUMMARY FOR FEBRUARY 26 2024...
VALID TODAY AS OF 0600 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM        50    143 PM  78    1932  54      -4        46
  MINIMUM        38    559 PM  18    1962  36       2        36
  AVERAGE        44                        44       0        41

PRECIPITATION (IN)
  TODAY           0.27          1.60 1904   0.17   0.10      0.23
  MONTH TO DATE   3.52                      4.34  -0.82      1.38
  SINCE OCT 1    25.72                     26.75  -1.03     16.39
  SINCE JAN 1    13.15                     10.39   2.76      4.21

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUL 1     0.7

DEGREE DAYS
 HEATING
  TODAY           21                        20       1        24
  MONTH TO DATE  480                       568     -88       640
  SINCE DEC 1   1727                      2058    -331      2110
  SINCE JUL 1   2686                      3155    -469      3068

 COOLING
  TODAY           0                         0       0         0
  MONTH TO DATE   0                         0       0         0
  SINCE DEC 1     0                         0       0         0
```

```
  SINCE JAN 1       0                          0       0        0
-------------------------------------------------------------------

WIND (MPH)
  HIGHEST WIND SPEED    26   HIGHEST WIND DIRECTION    SW (210)
  HIGHEST GUST SPEED    35   HIGHEST GUST DIRECTION    SW (210)
  AVERAGE WIND SPEED    10.0

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          1200 AM
 LOWEST     62           500 PM
 AVERAGE    78

-------------------------------------------------------------

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   54        69       1905
 MINIMUM TEMPERATURE (F)   36        19       1962

SUNRISE AND SUNSET
FEBRUARY 26 2024......SUNRISE   655 AM PST   SUNSET   557 PM PST
FEBRUARY 27 2024......SUNRISE   654 AM PST   SUNSET   558 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**3/12/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Reston-Fairview No. 2 230kV	**24/3 Span (Just BOL of 24/4)**

Date Outage Occurred	Outage ID	Duration of Outage
3/10/2024	**226018**	**794 Min**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**16"**	**96'**

LOCATION OF TREE

Distance from Centerline **75'** Manage ROW Width **125' (62.5' from center)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Two trees in the same location uprooted due to high wind.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | **14** | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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CDUS46 KPQR 102323
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
423 PM PDT SUN MAR 10 2024

.....

...THE EUGENE OR CLIMATE SUMMARY FOR MARCH 10 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 TODAY
  MAXIMUM         53    331 AM  69    1934  56     -3        47
                                      2005
  MINIMUM         41    812 AM  25    1935  37      4        33
                                      2022
  AVERAGE         47                        46      1        40

PRECIPITATION (IN)
  TODAY           0.31          1.27 1903   0.15   0.16     0.39
  MONTH TO DATE   2.07                      1.59   0.48     1.33
  SINCE OCT 1    29.20                     28.67   0.53    18.32
  SINCE JAN 1    16.63                     12.31   4.32     6.14

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.7
  SINCE JUL 1     1.4

DEGREE DAYS
 HEATING
  TODAY            18                       19     -1       25
  MONTH TO DATE   238                      195     43      244
  SINCE MAR 1     238                      195     43      244
  SINCE JUL 1    2984                     3391   -407     3364

 COOLING
  TODAY             0                        0      0        0
```

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  MONTH TO DATE    0                        0       0       0
  SINCE MAR 1      0                        0       0       0
  SINCE JAN 1      0                        0       0       0
.....

WIND (MPH)
  HIGHEST WIND SPEED    30   HIGHEST WIND DIRECTION    SE (120)
  HIGHEST GUST SPEED    39   HIGHEST GUST DIRECTION    SE (130)
  AVERAGE WIND SPEED    17.7

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     89           600 AM
 LOWEST      41           300 AM
 AVERAGE     65

.....

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    56        73      2007
 MINIMUM TEMPERATURE (F)    37        24      2009

SUNRISE AND SUNSET
MARCH 10 2024.....SUNRISE   733 AM PDT   SUNSET   714 PM PDT
MARCH 11 2024.....SUNRISE   731 AM PDT   SUNSET   715 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**3/20/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Toledo-Wendson No. 1 230kV	**39/3**

Date Outage Occured	Outage ID	Duration of Outage
3/2/2024	**225978 & 225979**	**808 Min.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**18"**	**127'**

LOCATION OF TREE

Distance from Centerline **89'** Manage ROW Width **125' (62.5' from center)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree broke off about 12' above from base due to snow load.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)

Issued by NWS


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CDUS46 KMFR 030847
CLIOTH

CLIMATE REPORT
NATIONAL WEATHER SERVICE MEDFORD, OR
1247 AM PST SUN MAR 03 2024

.....

...THE NORTH BEND OR CLIMATE SUMMARY FOR MARCH 2 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1902 TO 2024
```

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	44	MM	80	1931	55	-11	48
MINIMUM	34	MM	27	1917	41	-7	36
AVERAGE	39				48	-9	42
PRECIPITATION (IN)							
YESTERDAY	0.54		1.77	1972	0.27	0.27	0.21
MONTH TO DATE	1.23				0.54	0.69	0.21
SINCE OCT 1	47.58				39.97	7.61	28.52
SINCE JAN 1	23.90				16.96	6.94	12.41
SNOWFALL (IN)							
YESTERDAY	MM						
SNOW DEPTH	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	26				17	9	23
MONTH TO DATE	48				34	14	49
SINCE MAR 1	48				34	14	49
SINCE JUL 1	2396				2889	-493	3008
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)
  HIGHEST WIND SPEED   23   HIGHEST WIND DIRECTION   W (280)
  HIGHEST GUST SPEED   31   HIGHEST GUST DIRECTION   W (280)
  AVERAGE WIND SPEED   10.0

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  LIGHT SNOW
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1100 PM
 LOWEST   82   300 PM

.....

THE NORTH BEND OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	55	72	1937
MINIMUM TEMPERATURE (F)	41	23	1923

SUNRISE AND SUNSET
MARCH 3 2024.....SUNRISE   649 AM PST   SUNSET   609 PM PST
MARCH 4 2024.....SUNRISE   647 AM PST   SUNSET   611 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Austin, Jennifer	**Salem**	**1/9/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Jones Canyon-Santiam No.1	**133/2**

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	**225333**	**12 hrs 48 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**16"**	**80ft**

LOCATION OF TREE

Distance from Centerline **78'** Manage ROW Width **75**

☑	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**15**	**%**	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☑	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

DF tree from off ROW, fell onto the coductor during a winter storm conditions with strong winds and heavy snowfall. TLM removed the tree the following day.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code:MA-12-11 Retention:Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





Regional Forecast Discussions & Special Weather Statements

January 09

Special Weather Statement

by Fairman,Sarah I (BPA) - PGPW-5 on 1/9/2024 10:51 AM
Category: Special Weather Statement

Weather and Streamflow Forecasting - Special Weather Statement

10:55am Tuesday, January 9, 2024

...Gusty winds regionwide and blizzard conditions in the mountains through tomorrow morning...

...Increasing risk for wet sloppy accumulating snow across the Portland metro overnight tonight...

...Cold snap conditions likely over MLK Weekend, with chances for low-elevation wintry precip increasing...

Today through tomorrow morning:

Widespread winds associated with a deep low pressure system moving through the region today will persist through tomorrow morning across Washington and Oregon, especially along the coast as well as the Coast Range, Cascades, and Blue Mountains. The winds combined with heavy snow in the mountains will result in continued blizzard conditions in the Cascades and Blue Mountains.

Latest model guidance is now suggesting a surface low pressure system developing offshore and moving inland over NW Oregon overnight tonight, bringing with it occasionally heavy showers. This setup combined with morning low temperatures forecast just above freezing across the Portland Metro will result in an increased risk for wet sloppy snow accumulations. Any accumulation will likely occur mainly on grassy surfaces and should melt rather quickly.

Longer range:

Current thinking has not changed much regarding the upcoming cold snap. While the bulk of the Arctic air will remain confined to areas east of the Cascades, some of it will briefly spill west of the Cascades beginning this Saturday. Taking all this into account, a four-day cold snap is currently forecasted for Friday through Monday. Although a warming trend will commence after the Martin Luther King Day holiday, readings much colder than average will persist through at least the first half of next week.

The incoming Arctic airmass will also bring the typical risks for low elevation snow west of the Cascades. Precipitation is generally expected to begin in Washington and Oregon Friday night and will continue into Saturday. While precipitation type and snow amounts will highly depend upon air temperatures and the positioning of the incoming weather disturbance, there is increasing confidence that some type of wintry precipitation will occur during this timeframe. There is a chance for accumulating snow in the Puget Sound area of western Washington, including Seattle. Farther south in the Portland metro area, a wintry mix is still more likely than all snow.

A lot can still change between now and this weekend, not only regarding the precipitation type but also the magnitude of the cold air coming our way. We will issue updates as we have more information.

PGPW Weather

| | 0 Comment(s)

Comments

There are no comments for this post.

Add Comment

Title

Body *

Submit Comment

31370449 BPA-2025-03068-F 1052

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Jason Hunt / Lee Webb	10/15/16

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angelles - Sappho OARSID: 199669	29/10
Date Outage Occurred	**Duration of Outage**
10/14/16	12hr

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	26"	100

LOCATION OF TREE

Distance from Centerline 75+

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree apeared to be growing out of a nurse stump and and was a domino effect as they fell towards the lines.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**2/28/2012**

TRANSMISSION LINE DATA Name *(Operated as)*

Port Angeles-Sappho-1 / 115kV OARSID: 178593	Location of Outage *(Structures)* **4/2 AHOL 100 yards**
Date Outage Occurred **2/25/2012**	Duration of Outage **6:42 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**13-16"**	**70'**

LOCATION OF TREE

Distance from Centerline **65-70'**

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	**20%**		
☐	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☒	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

Tree shows sighns of advance laminated root rot, roots were broke near the base of the tree. I did not see any othere trees showing any sighns of Laminated root ro at this time.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**02/04/2020**

TRANSMISSION LINE DATA Name *(Operated as)*

PA-SAPH **OARSID: 213459**

Location of Outage *(Structures)*: **29-10**

Date Outage Occurred	Duration of Outage
01/31/2020	**20hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**5' to 16'**	**97'**

LOCATION OF TREE

Distance from Centerline **63'**

☐	Uphill	☐	Left Side		
☒	Downhill	%Slope of ground	**30%**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☒	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☒	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☒	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

5 to 7 trees all failed in one large group, and all showing sighns of root rot but sense they all came over to gether a larg root ball was present on these trees. The creek that has created a scouring effect in high water events also played a part in the failure of these trees. Many other old painted trees in this area, I was not able to determine if and of these trees had been marked with a DT because of the tangled mess.

Return or E-mail form to Kathy Stephenson – TR –TPP-4







BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**02/04/2020**

TRANSMISSION LINE DATA Name *(Operated as)*

PA-SAPH **OARSID: 213463**

Location of Outage *(Structures)*: **33/9**

Date Outage Occurred	Duration of Outage
02/01/2020	**20hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**14"**	**97'**

LOCATION OF TREE

Distance from Centerline **53'**

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	**10**		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☒	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree failed due to the Root rot that is effecting large areas of this corridor and High winds. There are many new and old marked DT's in this area that will cause outages in the the years to come if not weeks.

Return or E-mail form to Kathy Stephenson – TR –TPP-4



BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA Name *(Operated as)*

Port Angeles - Sappho # 1 OARSID: 169055

Location of Outage *(Structures)*: 3/2 - 50 ft Left 50 ft

Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF	16"	90 ft

LOCATION OF TREE

Distance from Centerline: 40 - 60 ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Rich top soil over compacted clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Fringe was left south of the line leaving about 30 – 50 ft. of fringe trees. High winds, wet soil and newly exposed trees contributed to the tree failure.

GENERAL REMARKS

Douglas Fir exhibited root rot symptoms including no root leaders beyond the root bowl.
Additional contributing factors were a shallow root network because of the clay barrier, saturated soil and high winds. Based on the numerous wind falls along the line, the winds speed was high, gusting and turbulent. It is suspected that additional root rot will be found along this line. DT crews were in the process of assessing the length of the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA Name *(Operated as)*

Port Angeles - Sappho # 1 OARSID: 169055

Location of Outage *(Structures)*: 9/2 + 200 ft Left 80 ft.

Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
DF / Grand Fir	24" / 12"	100' / 80'

LOCATION OF TREE

Distance from Centerline: 40 - 60 ft

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☒	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☒	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

Rich top soil over compacted clay

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

Fringe was left south of the line leaving about 30 – 50 ft. of fringe trees. High winds, wet soil and newly exposed trees contributed to the tree failure.

GENERAL REMARKS

Contributing factors were a shallow root network because of the clay barrier, saturated soil, exposed south side and high winds. There were several more windfalls in the area falling in the same general directions but not within MAD. Based on the numerous wind falls along the line, the winds speed was high, gusting and turbulent. Dueto the observations at 3/2 it is suspected that additional root rot will be found along this line. DT crews were in the process of assessing the length of the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho 115 kV OARSID: 154601

Location of Outage *(Structures)*: +330' 15/8

Date Outage Occurred	Duration of Outage
11/26/06	448 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☒	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)* S	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	15"	100'

LOCATION OF TREE

Distance from Centerline 61'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	10%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree went over during heavy, wet snow storm. Winds blowing about 10 MPH from the south. Root plate lifted out - no sign of root rot.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	6/20/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho 115 kV OARSID: 150758

Location of Outage *(Structures)*: -200' 17/3

Date Outage Occurred	Duration of Outage
3/9/06	422 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☒	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	8"	70'

LOCATION OF TREE

Distance from Centerline 58'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☒	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☒	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree was very burnt so could not determine its condition prior to failure. BPA contractor had recently removed all the "C" trees in that area and this tree was not exposed. DT crew had seen a tree leaning out of the stand at that approximate location. There was snow in the area. The snow load finally took the tree down. The tree did show some minor root rot and the roots were very restricted due to the closeness of other trees near it. It was marked with a DT.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles - Sappho # 1 (A) OARSID: 169055

Location of Outage *(Structures)*: 19/4 - 150 Left 70 ft

Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar	26"	100'

LOCATION OF TREE

Distance from Centerline 70'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☒	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

None

GENERAL REMARKS

Cedar had dry rot and failed at the forks about 12 ft. above ground.
Same area Spruce snapped above ground showing no sings of defect. Did not strike the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Stephen Duncan / Nate Smith	12/3/09

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles - Sappho # 1 (B) OARSID: 169055

Location of Outage *(Structures)*: 19/4 + 250 Left 100

Date Outage Occurred	Duration of Outage
11/18-19/09	19:39

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* from SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Red Cedar, double base	48/30	140/120

LOCATION OF TREE

Distance from Centerline: 90 ft.

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0-5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☒	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

None

GENERAL REMARKS

Tree was split at the stump and the smaller tree's root structure appeared to be under cut and exposed. No rot or other defects observed. The tree

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho #1 115 kV OARSID: 150587

Location of Outage *(Structures)*: +260' 19/7

Date Outage Occurred	Duration of Outage
2/27/06	653 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SSE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Grand Fir	26"	95'

LOCATION OF TREE

Distance from Centerline 70'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☒	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had advanced Laminated Root Rot. Almost all the roots were rotten. There was a slight yellowing of last year's foliage, but no other visible signs of the disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho 115 kV OARSID: 154455

Location of Outage *(Structures)*: -240' 25/1

Date Outage Occurred	Duration of Outage
11/15/06	997 minutes - part of multiple outages on this line

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	16"	70'

LOCATION OF TREE

Distance from Centerline 55'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree's roots were very restricted on the south and west sides due to growing in close proximity to another tree (which had been cut a number of years ago). A Hemlock nearby also went down (fell to the east and not towards line) which then removed some of the DF's support. Root plate lifted out – no sign of root rot. Patch of alder to the south of this tree left this tree open to high winds once the leaves were off the alder. High winds and saturated soils led to this failure.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho #1 115 kV OARSID: 150229

Location of Outage *(Structures)*: -80' 25/7

Date Outage Occurred	Duration of Outage
2/4/06	695 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Multiple W. Hemlocks	22"	110'

LOCATION OF TREE

Distance from Centerline 105'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	16%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

It appeared that a dead standing Hemlock hit a live Hemlock and took that tree down along with 2 other Hemlocks that shared the same root plate. Many of the trees had Armillaria root disease. There was no visible sign of the disease in the tree before it failed. This was one of many trees that hit the line that same evening in the same windstorm.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/27/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho #1 115 kV OARSID: 150229

Location of Outage *(Structures)*: -290' 25/8

Date Outage Occurred	Duration of Outage
2/4/06	695 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* South	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	18"	130'

LOCATION OF TREE

Distance from Centerline 95'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	15%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☒	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

This was one of several trees that hit the line in this area and others AOL. The tree that hit the line had shallow roots matted about 2-3' below the ground due to the heavy clay below. This tree was hit by another tree further back in the stand that had root rot (Armillaria). There were a lot of trees that went down during the storm. Many show signs of Armillaria root disease.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	2/28/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho 115kV OARSID: 150587

Location of Outage *(Structures)*: -80' 32/2

Date Outage Occurred	Duration of Outage
2/27/06	653 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
W. Hemlock	18"	100'

LOCATION OF TREE

Distance from Centerline 53'

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	45%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☒	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Tree had extensive Armillaria root rot. Is a dead tree behind it and other trees that fell out of that stand were infected with root rot. Trees were located in a fringe between the access road and the ROW. This was part of a large outage on the line where trees in the 25 mile also hit the line.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Kathy Stephenson	12/7/06

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho 115 kV OARSID: 154454

Location of Outage *(Structures)*: Between 17/3 to 17/5

Date Outage Occurred: 11/15/06

Duration of Outage: 997 minutes - part of multiple outages on this line

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)* SE	☐	Ice
☒	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Red Alder - several	10-18"	100'-120'

LOCATION OF TREE

Distance from Centerline: 55-150'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☒	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

There were two areas where multiple alder fell into the line. In both cases, larger alder from further back in the stand fell into the smaller alder closest to the line, pushing the smaller alder into the line. Large alder had shallow root systems due to soil conditions.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Lee Web	11/19/2017

TRANSMISSION LINE DATA Name *(Operated as)*: Port Angeles-Sappho No 1 115kV OARSID: 204532

Location of Outage *(Structures)*: 30/5

Date Outage Occurred	Duration of Outage
11/19/2017	16hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	14" and 17"	83' and 92'

LOCATION OF TREE

Distance from Centerline: 69-to 72 feet

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
11/27/01

Name of Inspector	Date of Inspection
Jason Hunt	**3/31/2020**

TRANSMISSION LINE DATA Name *(Operated as)*

Port Angeles-Sappho No 1 115kV OARSID: 213949

Location of Outage *(Structures)*

33/8

Date Outage Occurred	Duration of Outage
03/31/2020	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir		

LOCATION OF TREE

Distance from Centerline

☒	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☒ YES ☐ NO

This outage was casued from a wood thief cutting fire wood on FS property. The tree fell 90deg in the wrong directions from the face cut. Lee Webb indicated that this was not the first tree in the area that has been cut and aproximatly nine other trees have been removed and the local Sheriffe and the Forest Service law inforcment are currently investigating this incedent.

The person that was responsible was not on scene and has not been identified as of yet.

GENERAL REMARKS

Return or E-mail form to Kathy Stephenson – TR –TPP-4





BPA F 4300.04e
(11-01)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by CIL
1/27/01

Name of Inspector	Date of Inspection
Lee Web	01/21/18

TRANSMISSION LINE DATA

Name *(Operated as)*	Location of Outage *(Structures)*
Port Angeles-Sappho No 1 115kV OARSID: 204998	32/8
Date Outage Occurred	**Duration of Outage**
01/21/18	16hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	17"	97'

LOCATION OF TREE

Distance from Centerline 87'

☒	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	5%		
☒	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☒	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☒	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☒ NO

GENERAL REMARKS

This tree failed at the trunk and did not up root with week or decayed root system.

Return or E-mail form to Kathy Stephenson – TR –TPP-4

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
Port Angeles-Sappho No 1 115kV OARSID: 208752	2/2
Date Outage Occurred	**Duration of Outage**
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind (Indicate direction) Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	17"	80-90'

LOCATION OF TREE

Distance from Centerline 73'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? (Check one)

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused (cut)	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? (Please type comments below) ☐ YES ☒ NO

GENERAL REMARKS

Laminated root rot is present in the area with several dead and declineing trees.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(06-2010)

U.S. DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
TREE-CAUSED OUTAGE REPORT

Electronic Form
Approved by Forms
Mgmt. 06/30/2010

Name of Inspector	Date of Inspection
Jason Hunt	12/19/18

TRANSMISSION LINE DATA

Name (Operated as)	Location of Outage (Structures)
Port Angeles-Sappho No 1 115kV OARSID: 208752	3/2
Date Outage Occurred	**Duration of Outage**
12/14/18	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☒	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☒	Strong Wind (Indicate direction) Ne	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	10 and 9"	80'

LOCATION OF TREE

Distance from Centerline 63'

☐	Uphill	☒	Left Side		
☐	Downhill	%Slope of ground	0%		
☐	Right Side	On or Off ROW?	☐ On	☒	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? (Check one)

☒	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☒	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☒	Multiple Stems	☐	Lighting Scars
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☒	Distressed Cone Crop	☒	Healthy

REASON FOR FALL OR BREAK

☒	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused (cut)	☐	Logging Fringe	☒	High Wind
☐	Standing Water	☒	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

Type of soil, if known

If human caused, did you talk with anyone on site? If yes, what comments were made? (Please type comments below) ☐ YES ☒ NO

GENERAL REMARKS

Laminated root rot is present in the area with several dead and declineing trees. High winds and laminated rot caused this tree failure.

Return or e-mail form to: Steve Narolski – TFBV – DOB-1

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Covington	6/5/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
COVI-BTRD/ 230K	9/4

Date Outage Occurred	Outage ID	Duration of Outage
6/4/2024	226342	240 min

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* North	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western Hemlock	15" DBH	105'

LOCATION OF TREE

Distance from Centerline 72.5ft — Manage ROW Width 62.5ft

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 12 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☑	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This tree had significant heart rot and termite damage.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m a, WA
WFO Seattle, WA
illa te Air ort, WA
efli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CDUS46 KSEW 040827
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
127 AM PDT TUE JUN 04 2024

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR JUNE 3 2024...
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CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	59	118 PM	89	1978 2009	69	-10	77
MINIMUM	50	1159 PM	30	1976	46	4	38
AVERAGE	55				57	-2	58
PRECIPITATION (IN)							
YESTERDAY	0.37		0.89	1990	0.06	0.31	0.00
MONTH TO DATE	1.46				0.19	1.27	0.00
SINCE OCT 1	44.67				45.82	-1.15	36.31
SINCE JAN 1	24.31				24.69	-0.38	17.23
DEGREE DAYS							
HEATING							
YESTERDAY	10				8	2	7
MONTH TO DATE	22				24	-2	21
SINCE JUN 1	22				24	-2	21
SINCE JUL 1	4590				5211	-621	5017
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE JUN 1	0				0	0	0
SINCE JAN 1	3				2	1	22

WIND (MPH)
RESULTANT WIND SPEED 9 RESULTANT WIND DIRECTION SW (210)
HIGHEST WIND SPEED 22 HIGHEST WIND DIRECTION SW (210)
HIGHEST GUST SPEED 34 HIGHEST GUST DIRECTION SW (240)
AVERAGE WIND SPEED 9.5

SKY COVER
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   97   1200 AM
 LOWEST   64   100 PM
 AVERAGE   81

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	69	92	1978 2009
MINIMUM TEMPERATURE (F)	46	33	1991

SUNRISE AND SUNSET
JUNE 4 2024.....SUNRISE   519 AM PDT   SUNSET   902 PM PDT
JUNE 5 2024.....SUNRISE   518 AM PDT   SUNSET   903 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Kyle Goeke Dee	Kalispell	6/14/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Libby - Bonners Ferry No 1 115 kV line	43/5

Date Outage Occured	Outage ID	Duration of Outage
6/11/2024	226412	127 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SSE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	14	70

LOCATION OF TREE

Distance from Centerline 66 ft — Manage ROW Width 100 ft

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☑	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

On June 11, 2024 at approximately 0700, the Libby-Bonners Ferry No 1 115 kV line experienced an outage. This was caused by a tree top that was broken by high winds that were occurring in the area. The NWS indicates wind speed at 11 mph with guys at 32-36 mph.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climate

Weather.gov > Missoula, MT > Climate

Missoula, MT
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)

Storm Event Database (NCEI)

2. Choose a Location

Missoula, MT
[illegible], MT
Little, MT

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 23 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Oldest | Click for access to archived data.

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CDUS45 KMSO 112232
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
432 PM MDT TUE JUN 11 2024

.....

...THE KALISPELL MT CLIMATE SUMMARY FOR JUNE 11 2024...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1894 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         83    259 PM  90    1965  70     13        83
                                      2015
  MINIMUM         45    448 AM  28    1973  44      1        51
  AVERAGE         64                        57      7        67

PRECIPITATION (IN)
  TODAY           0.00          1.07 1997   0.10  -0.10      0.00
  MONTH TO DATE   0.50                      1.10  -0.60      0.19
  SINCE OCT 1    11.01                     11.95  -0.94      8.78
  SINCE JAN 1     7.05                      7.75  -0.70      4.60

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUN 1     0.0
  SINCE JUL 1    39.9
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  TODAY           1                         9     -8         0
  MONTH TO DATE  76                       103    -27         8
  SINCE JUN 1    76                       103    -27         8
  SINCE JUL 1  7476                      7977   -501      7909

 COOLING
  TODAY           0                         0      0         2
  MONTH TO DATE   1                         0      1        20
  SINCE JUN 1     1                         0      1        20
  SINCE JAN 1     3                         1      2        28
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WIND (MPH)
  HIGHEST WIND SPEED    21   HIGHEST WIND DIRECTION    SE (140)
  HIGHEST GUST SPEED    31   HIGHEST GUST DIRECTION    SE (130)
  AVERAGE WIND SPEED     7.1

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.1

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93           600 AM
 LOWEST     26           300 PM
 AVERAGE    60

.....

THE KALISPELL MT CLIMATE NORMALS FOR TOMORROW
                         NORMAL    RECORD     YEAR
 MAXIMUM TEMPERATURE (F)   70        94       1990
 MINIMUM TEMPERATURE (F)   44        34       1969
                                              2007
                                              2016

SUNRISE AND SUNSET
JUNE 11 2024.....SUNRISE   536 AM MDT   SUNSET   938 PM MDT
JUNE 12 2024.....SUNRISE   536 AM MDT   SUNSET   939 PM MDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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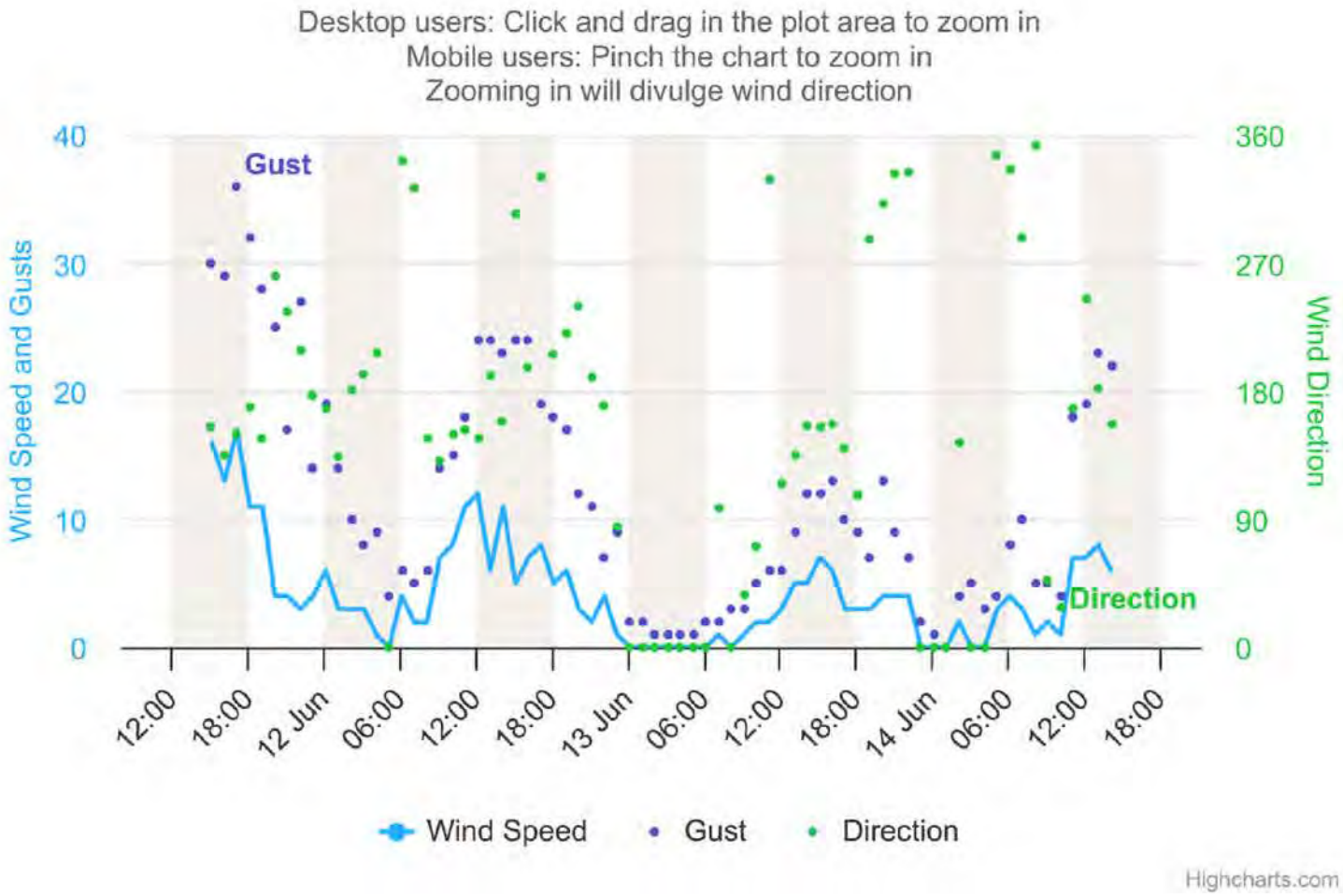
Desktop users: Click and drag in the plot area to zoom in
Mobile users: Pinch the chart to zoom in
Zooming in will divulge wind direction
Wind Speed and Gusts
Wind Direction
Gust
Direction
40
30
20
10
0
360
270
180
90
0
12:00
18:00
12 Jun
06:00
12:00
18:00
13 Jun
06:00
12:00
18:00
14 Jun
06:00
12:00
18:00
Wind Speed
Gust
Direction
Highcharts.com





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	Eugene	7/29/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Dorena Tap to Alvey-Martin Creek/115kV	2/8 +403' AOL

Date Outage Occurred	Outage ID	Duration of Outage
7/26/2024	226645	464 minutes

WEATHER AT THE TIME OF OCCURRENCE

☑	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☑ **Other:** Logging

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D Fir	23"	98'

LOCATION OF TREE

Distance from Centerline 71' — Manage ROW Width **100' (50' on either side)**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☑	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☑	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

TLM responded to the outage on 7/26/24 and removed a tree from the line felled by logger. When I inspected the site on 7/29/24, the tree in question was removed from site, it was gone.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climate

Weather.gov > Portland, OR > Climate

Portland, OR
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

storia
rora O
ills oro O
c innville
Portland P
Redmond R

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 28 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | Oldest

Click for access to archived data.

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CDUS46 KPQR 262321
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
421 PM PDT FRI JUL 26 2024

.....

...THE EUGENE OR CLIMATE SUMMARY FOR JULY 26 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)   VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         83    259 PM 102    1998  86     -3        87
                                      2022
  MINIMUM         50    514 AM  42    1919  53     -3        51
                                      1953
  AVERAGE         67                        69     -2        69

PRECIPITATION (IN)
  TODAY           0.00          0.88 1947   0.00   0.00      0.00
  MONTH TO DATE   0.14                      0.29  -0.15      0.01
  SINCE OCT 1    37.16                     39.02  -1.86     26.68
  SINCE JAN 1    24.59                     22.66   1.93     14.50

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUL 1     0.0

DEGREE DAYS
 HEATING
  TODAY           0                         0      0         0
  MONTH TO DATE   0                        20    -20         0
  SINCE JUN 1    93                       166    -73        64
  SINCE JUL 1     0                        20    -20         0

 COOLING
```

```
  TODAY              2                        3     -3       4
  MONTH TO DATE    212                       89    123     176
  SINCE JUN 1      243                      112    131     231
  SINCE JAN 1      248                      116    132     280
.....

WIND (MPH)
  HIGHEST WIND SPEED    16   HIGHEST WIND DIRECTION    NW (330)
  HIGHEST GUST SPEED    23   HIGHEST GUST DIRECTION    NW (300)
  AVERAGE WIND SPEED    10.3

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.1

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     83           300 AM
 LOWEST      26           300 PM
 AVERAGE     55

.....

THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)    86       105      1998
 MINIMUM TEMPERATURE (F)    53        41      1919

SUNRISE AND SUNSET
JULY 26 2024.....SUNRISE   555 AM PDT   SUNSET   843 PM PDT
JULY 27 2024.....SUNRISE   556 AM PDT   SUNSET   842 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	Longview	8/19/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
KEELER-ALLSTON NO. 1 500kV	15/1

Date Outage Occurred	Outage ID	Duration of Outage
8/17/2024	226869	7 Hours, 55 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SW 41 MPH GUSTS	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas-fir	24"	130'

LOCATION OF TREE

Distance from Centerline 104' Manage ROW Width 150' (75' from center)

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 10 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☑	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☑ YES ☐ NO

Outage was not human caused, but a recent logging fringe contributed to failure. I spoke with the logging operation manager, who agreed to remove the fringe in the next 1-2 weeks. Contact information was exchanged. This will be shared with TLM.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Douglas-fir 525' AHOL of 15/1 on left side uprooted during major storm event. Tree was part of a recent logging fringe.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)

Issued by NWS Portland, OR

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840
CDUS46 KPQR 180221
CLIPDX

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
721 PM PDT SAT AUG 17 2024

.....

...THE PORTLAND OR CLIMATE SUMMARY FOR AUGUST 17 2024...
VALID TODAY AS OF 0700 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1940 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         84    156 PM 105    1977  82      2       93
  MINIMUM         60    506 AM  45    1970  59      1       66
  AVERAGE         72                        71      1       80

PRECIPITATION (IN)
  TODAY           0.30          0.90 1948   0.02   0.28     0.00
  MONTH TO DATE   0.30                      0.23   0.07     0.01
  SINCE OCT 1    38.86                     35.09   3.77    33.51
  SINCE JAN 1    22.37                     20.45   1.92    17.40

SNOWFALL (IN)
  TODAY           0.0           0.0  2022
  MONTH TO DATE   0.0
  SINCE JUL 1     0.0

DEGREE DAYS
 HEATING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE JUN 1    45                        90    -45       45
  SINCE JUL 1     0                        10    -10        0

 COOLING
  TODAY           7                         6      1       15
  MONTH TO DATE  152                       111     41      224
  SINCE JUN 1    537                       338    199      589
  SINCE JAN 1    560                       361    199      688
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    28   HIGHEST WIND DIRECTION    SW (240)
  HIGHEST GUST SPEED    41   HIGHEST GUST DIRECTION    SW (240)
  AVERAGE WIND SPEED     6.7


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  THUNDERSTORM
  RAIN


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    87          600 PM
 LOWEST     50          400 PM
 AVERAGE    69

.....

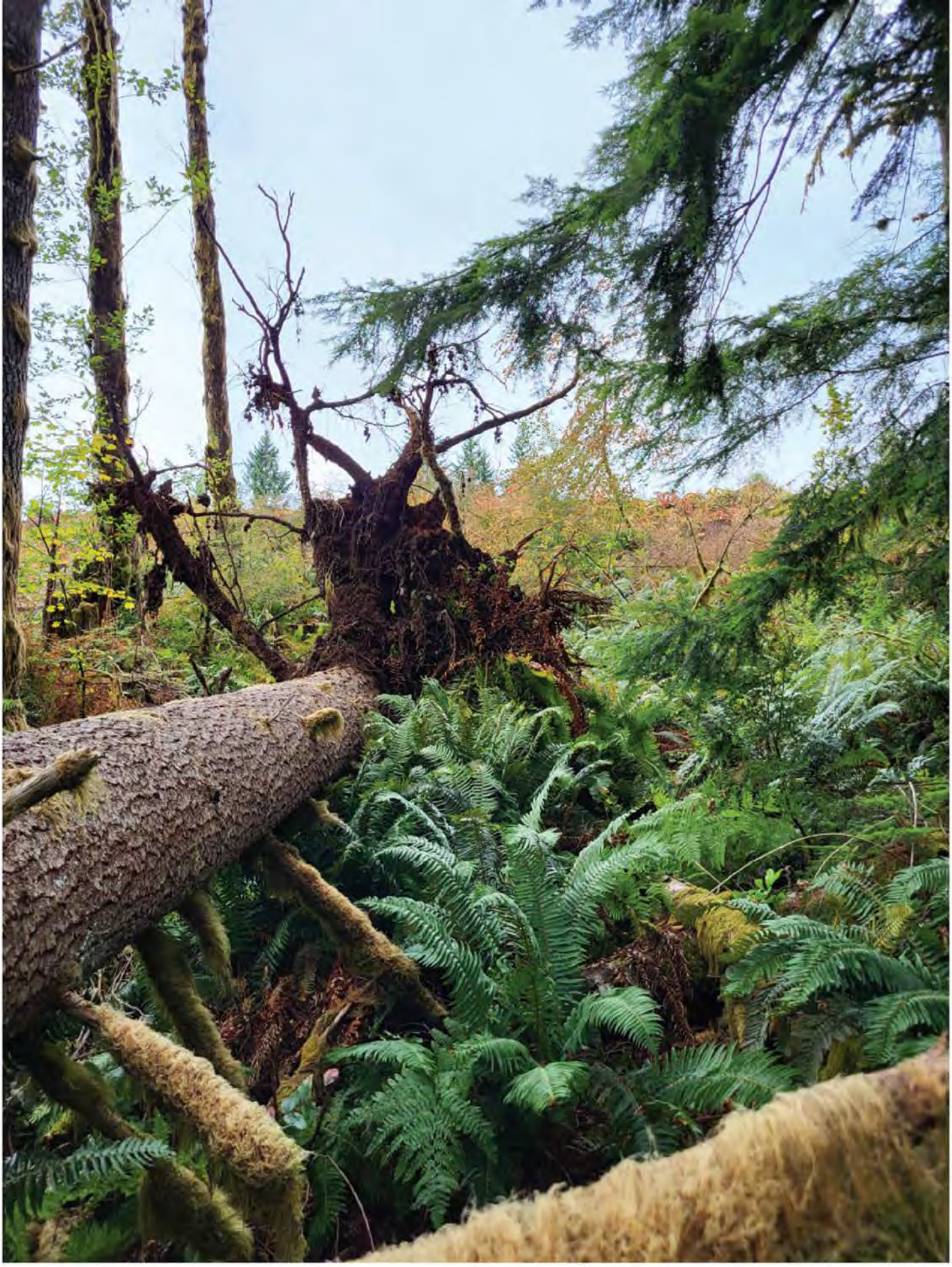

THE PORTLAND OR CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)  82        99      2016
 MINIMUM TEMPERATURE (F)  59        45      1973
```

SUNRISE AND SUNSET
AUGUST 17 2024.....SUNRISE 614 AM PDT SUNSET 814 PM PDT
AUGUST 18 2024.....SUNRISE 615 AM PDT SUNSET 812 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Kyle Goeke Dee	Kalispell	8/21/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Hot Springs - Rattlesnake No 1 230 kV	47/7

Date Outage Occurred	Outage ID	Duration of Outage
8/10/2024	226747, 226750	2 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* SSE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Ponderosa Pine	19	92

LOCATION OF TREE

Distance from Centerline 78 ft — Manage ROW Width 120 ft

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

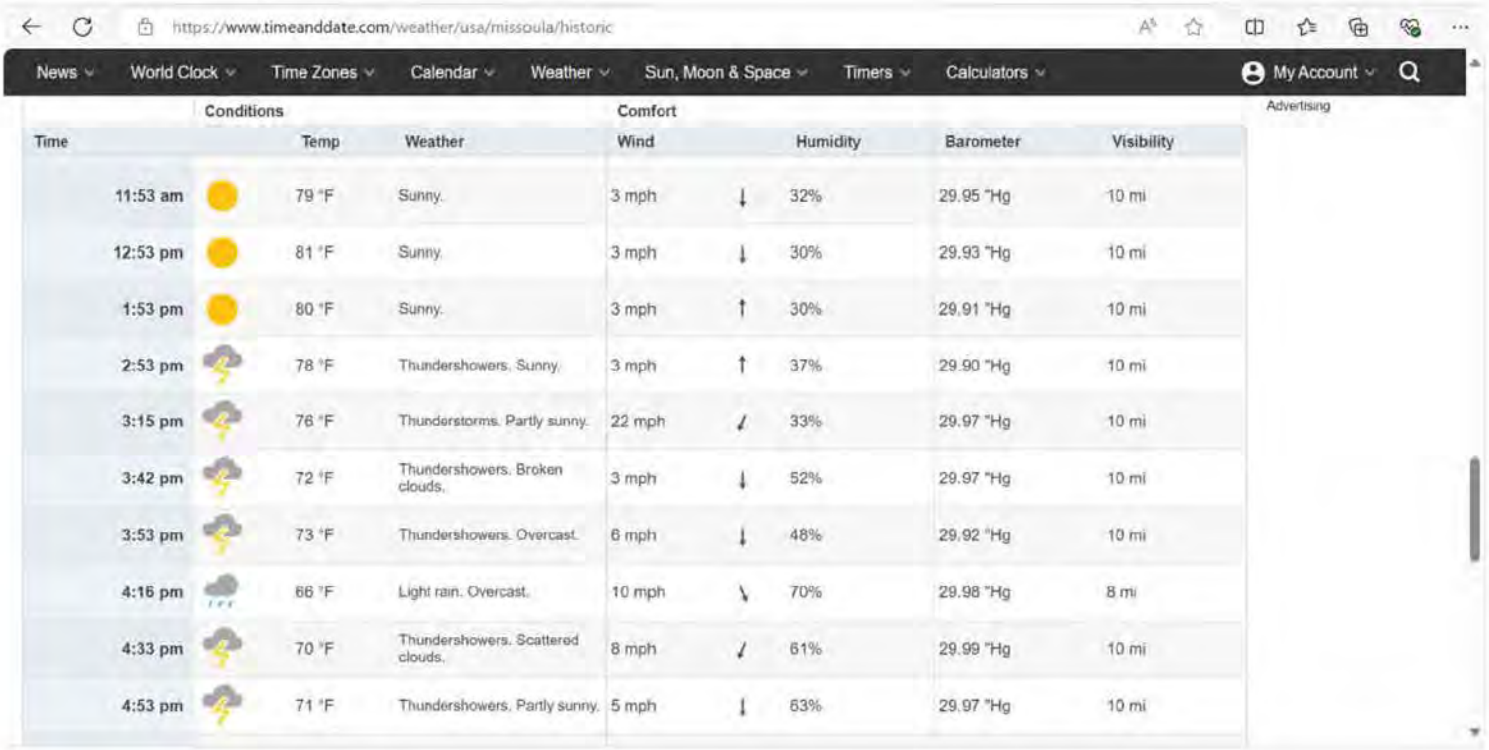
If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

On August 10th, a marked Ponderosa Pine with a split top located off-ROW but within the unmanaged ROW on the RS of HOTS-RATL was broken off due to high winds resulting in a 2 minute outage at 3:15 PM, coinciding with thunderstorms and high winds (>22 mph).

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



	Conditions		Comfort			
Time	Temp	Weather	Wind	Humidity	Barometer	Visibility
11:53 am	79 °F	Sunny.	3 mph ↓	32%	29.95 "Hg	10 mi
12:53 pm	81 °F	Sunny.	3 mph ↓	30%	29.93 "Hg	10 mi
1:53 pm	80 °F	Sunny.	3 mph ↑	30%	29.91 "Hg	10 mi
2:53 pm	78 °F	Thundershowers. Sunny.	3 mph ↑	37%	29.90 "Hg	10 mi
3:15 pm	76 °F	Thunderstorms. Partly sunny.	22 mph ↙	33%	29.97 "Hg	10 mi
3:42 pm	72 °F	Thundershowers. Broken clouds.	3 mph ↓	52%	29.97 "Hg	10 mi
3:53 pm	73 °F	Thundershowers. Overcast.	6 mph ↓	48%	29.92 "Hg	10 mi
4:16 pm	66 °F	Light rain. Overcast.	10 mph ↘	70%	29.98 "Hg	8 mi
4:33 pm	70 °F	Thundershowers. Scattered clouds.	8 mph ↙	61%	29.99 "Hg	10 mi
4:53 pm	71 °F	Thundershowers. Partly sunny.	5 mph ↓	63%	29.97 "Hg	10 mi

Climatological Report (Daily)
Issued by NWS Missoula, MT

883
CDUS45 KMSO 102230
CLIMSO

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
430 PM MDT SAT AUG 10 2024

.....

...THE MISSOULA MT CLIMATE SUMMARY FOR AUGUST 10 2024...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1893 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
TODAY							
MAXIMUM	84	1217 PM	104	2018	87	-3	81
MINIMUM	54	608 AM	37	1893	52	2	51
AVERAGE	69				69	0	66

PRECIPITATION (IN)

TODAY	T	0.76	1963	0.03	-0.03	0.00
MONTH TO DATE	0.28			0.24	0.04	0.32
SINCE OCT 1	9.99			12.56	-2.57	10.77
SINCE JAN 1	7.79			9.12	-1.33	7.91

SNOWFALL (IN)

TODAY	0.0
MONTH TO DATE	0.0
SINCE JUN 1	0.0
SINCE JUL 1	0.0
SNOW DEPTH	0

DEGREE DAYS

HEATING

TODAY	0	1	-1	0
MONTH TO DATE	0	8	-8	1
SINCE JUN 1	157	232	-75	81
SINCE JUL 1	3	47	-44	1

COOLING

TODAY	4	5	-1	1
MONTH TO DATE	79	56	23	57
SINCE JUN 1	360	230	130	370
SINCE JAN 1	360	233	127	396

.....

WIND (MPH)

HIGHEST WIND SPEED	22	HIGHEST WIND DIRECTION	N (20)
HIGHEST GUST SPEED	34	HIGHEST GUST DIRECTION	NE (30)
AVERAGE WIND SPEED	3.1		

SKY COVER

POSSIBLE SUNSHINE	MM
AVERAGE SKY COVER	0.1

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED TODAY.

THUNDERSTORM

LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)

HIGHEST	77	600 AM
LOWEST	30	100 PM
AVERAGE	54	

.....

THE MISSOULA MT CLIMATE NORMALS FOR TOMORROW

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	86	100	1996
			2018
MINIMUM TEMPERATURE (F)	51	39	1893
			1895

SUNRISE AND SUNSET
AUGUST 10 2024.....SUNRISE 628 AM MDT SUNSET 854 PM MDT
AUGUST 11 2024.....SUNRISE 629 AM MDT SUNSET 852 PM MDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

USA.gov

- US Dept of Commerce
- National Oceanic and Atmospheric Administration
- National Weather Service
- 1325 East West Highway
- Silver Spring, MD 20910
- Comments? Questions? Please Contact Us.
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Kyle Goeke Dee	Kalispell	8/27/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego No 1 115 kV line	23/3 300 ft AHOL

Date Outage Occurred	Outage ID	Duration of Outage
8/23/2024	226970	216 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* ENE	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Englemann Spruce	16	75

LOCATION OF TREE

Distance from Centerline 64 ft — Manage ROW Width 100 ft

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

On 8/23/24 at 17:27 an off-ROW Englemann Spruce failed and fell on LIBY-BOFE across multiple conductors. The tree was healthy with no decay, and the likely culprit of this failure were high winds in the Whitefish area with wind speeds of 28 mph with gusts up to 47 mph.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climate

Weather.gov > Missoula, MT > Climate

Missoula, MT
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)

Storm Event Database (NCEI)

2. Choose a Location

Missoula, MT
[illegible]
utte, MT

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Oldest | Click for access to archived data.

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CDUS45 KMSO 232230
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
430 PM MDT FRI AUG 23 2024

.....

...THE KALISPELL MT CLIMATE SUMMARY FOR AUGUST 23 2024...
VALID TODAY AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1894 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         91    248 PM  98    1969  80      11       74
  MINIMUM         60    644 AM  31    1962  44      16       47
                                      2015
  AVERAGE         76                        62      14       61

PRECIPITATION (IN)
  TODAY           0.00          0.60 1965   0.02   -0.02      T
  MONTH TO DATE   1.49                      0.53    0.96     1.56
  SINCE OCT 1    15.72                     15.36    0.36    10.97
  SINCE JAN 1    11.76                     11.16    0.60     6.79

SNOWFALL (IN)
  TODAY           0.0
  MONTH TO DATE   0.0
  SINCE JUN 1     0.0
  SINCE JUL 1     0.0
  SNOW DEPTH      0

DEGREE DAYS
 HEATING
  TODAY           0                         4      -4        4
  MONTH TO DATE   7                        54     -47        9
  SINCE JUN 1   225                       363    -138      144
  SINCE JUL 1    30                       129     -99       22

 COOLING
  TODAY          11                         1      10        0
  MONTH TO DATE  97                        50      47       82
  SINCE JUN 1   271                       134     137      225
  SINCE JAN 1   273                       135     138      233
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WIND (MPH)
  HIGHEST WIND SPEED   16   HIGHEST WIND DIRECTION   N (20)
  HIGHEST GUST SPEED   22   HIGHEST GUST DIRECTION   N (360)
  AVERAGE WIND SPEED   9.4

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   60   700 AM
 LOWEST   23   300 PM
 AVERAGE   42

.....

THE KALISPELL MT CLIMATE NORMALS FOR TOMORROW

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	79	103	1969
MINIMUM TEMPERATURE (F)	44	33	1992
			2021

SUNRISE AND SUNSET
AUGUST 23 2024.....SUNRISE   643 AM MDT   SUNSET   835 PM MDT
AUGUST 24 2024.....SUNRISE   644 AM MDT   SUNSET   833 PM MDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

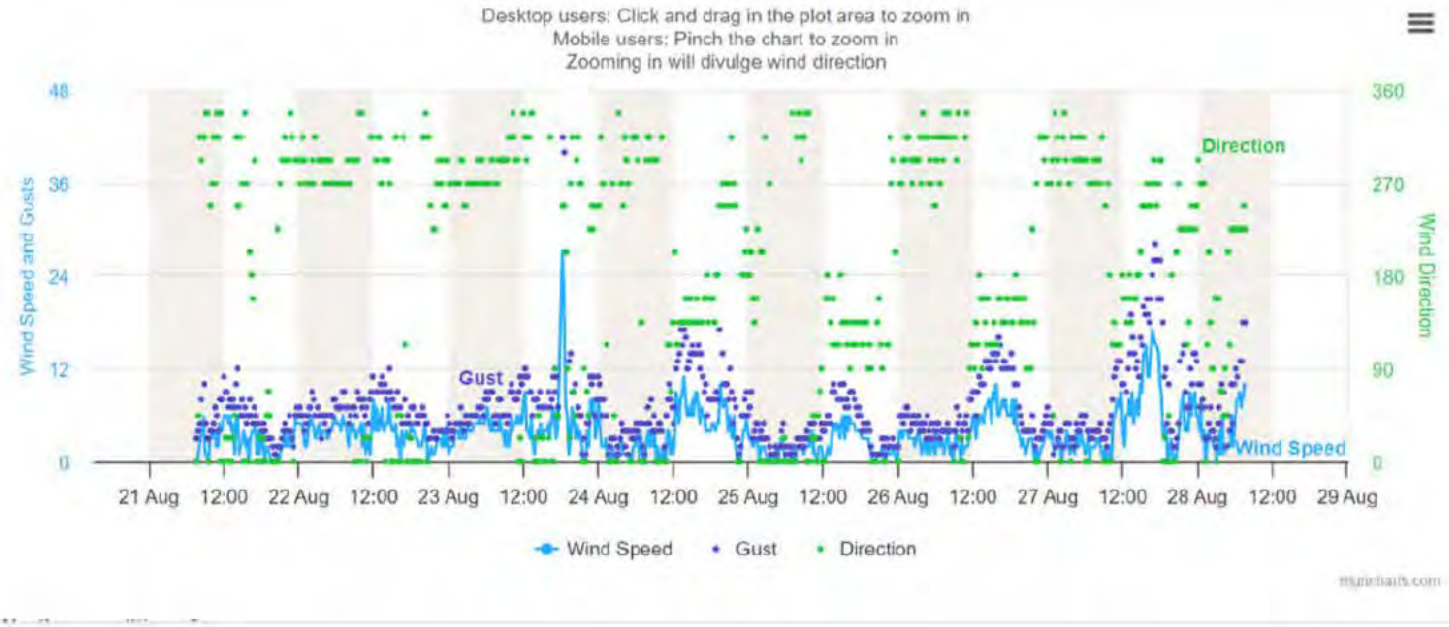
$$

Flathead River MT 35 MP49

Weather.gov > Western Region Headquarters > Time Series Viewer

Western Region Headquarters
Regional Headquarters

Wind Speed & Gusts | 3 Days | Show Hourly Data | Switch to Metric Units | Font: A A A | About This Page | Advanced Options











BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	8/27/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
COLV-BOUN (115kV)	7/7

Date Outage Occurred	Outage ID	Duration of Outage
8/23/2024	226977	256 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* NW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☐ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	20"	95'

LOCATION OF TREE

Distance from Centerline 70' Manage ROW Width 100'

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Property has had a tree fall on the line before, multiple large lodgepoles that are prone to break in high winds. This storm broke two trees on the property, one snapped just above the ground and got held up on the line. TLM responded quickly and restored service.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Felts Field, WA
Deer Park, WA
Pullman, WA
Lewiston, ID
Moses Lake, WA
Ephrata, WA
Wenatchee, WA
Omak, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 7 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | Oldest | Click for access to archived data.

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CDUS46 KOTX 240841
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
141 AM PDT SAT AUG 24 2024

.....

...THE DEER PARK WA AIRPORT CLIMATE SUMMARY FOR AUGUST 23 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                 NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         79    204 PM  MM      MM  83     -4       73
  MINIMUM         47   1148 PM  MM      MM  45      2       45
  AVERAGE         63                       64     -1       59

PRECIPITATION (IN)
  YESTERDAY     0.05          MM      MM   0.03   0.02     0.00
  MONTH TO DATE 0.21                       0.51  -0.30     0.55
  SINCE OCT 1  16.66                      21.48  -4.82    16.26
  SINCE JAN 1   9.65                      13.65  -4.00     8.32

SNOWFALL (IN)
  YESTERDAY      MM

DEGREE DAYS
 HEATING
  YESTERDAY      2                         3     -1        6
  MONTH TO DATE  3                        37    -34       17
  SINCE JUN 1  206                       308   -102      128
  SINCE JUL 1   14                        96    -82       32

 COOLING
  YESTERDAY      0                         2     -2        0
  MONTH TO DATE 144                       72     72      130
  SINCE JUN 1   351                      189    162      323
  SINCE JAN 1   351                      193    158      363
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WIND (MPH)
  HIGHEST WIND SPEED     32   HIGHEST WIND DIRECTION     SW (220)
  HIGHEST GUST SPEED     43   HIGHEST GUST DIRECTION     SW (210)
  AVERAGE WIND SPEED      8.9

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.3

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG
  HAZE

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     93           800 PM
 LOWEST      34          1200 AM
 AVERAGE     64

.....................................................

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    82         MM         MM
 MINIMUM TEMPERATURE (F)    45         MM         MM

SUNRISE AND SUNSET
AUGUST 24 2024........SUNRISE   558 AM PDT   SUNSET   745 PM PDT
AUGUST 25 2024........SUNRISE   559 AM PDT   SUNSET   743 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04a
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	1/12/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
HOLC-NASE-1 / 115kV	1/4

Date Outage Occurred	Outage ID	Duration of Outage
1/9/2024	225342	1099 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir		

LOCATION OF TREE

Distance from Centerline				Manage ROW Width	
☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☑	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree top broke and sailed from off row in heavy winds.

Please submit e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	9/26/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Priest River Tap-Albeni Falls Sand Creek No 1 / 115kV	1/3

Date Outage Occured	Outage ID	Duration of Outage
9/25/2024	227384	220 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* East to west	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole pine	16"	75'

LOCATION OF TREE

Distance from Centerline 35' Manage ROW Width 50'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree fell in very high wind gusts, multiple other trees in area fell during storm. This tree was marked for removal by BPA tree crew in the next few days.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	9/26/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Sand Creek-Bonners Ferry No 1&2 / 115kV	14/1

Date Outage Occurred	Outage ID	Duration of Outage
9/25/2024	227400	1020 Minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* Southwest to Northeast	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Western red cedar	14"	90'

LOCATION OF TREE

Distance from Centerline 76' Manage ROW Width 100'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

I talked with the on-site land managers with IDL. I suggested they check on the area over the next couple of days to make sure the fire doesn't re-ignite.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree trunk snapped in the wind about 15' up from the ground, got caught on the line and started a small fire. Was smoking when I arrived. I used 5 gallons of water and a shovel to extinguish the fire. I marked 3 DT's in the area and had my crew remove them the following week.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



Arrival: 1500



Arrival: 1500



Fire out at 1555

31370499

Climate

Weather.gov > Spokane, WA > Climate

Spokane, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Spokane, WA
Felts Fiel , WA
eer ark, WA
llman, WA
e iston,
oses ake, WA
phrata, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Ne est | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | Ol est | Click for access to archive ata.

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CDUS46 KOTX 260825
CLIGEG

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
125 AM PDT THU SEP 26 2024

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BPA-2025-03068-F 1132

31370499

...THE SPOKANE WA AIRPORT CLIMATE SUMMARY FOR SEPTEMBER 25 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1881 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	88	226 PM	93	1952	70	18	80
MINIMUM	56	1159 PM	25	1926	46	10	55
AVERAGE	72				58	14	68
PRECIPITATION (IN)							
YESTERDAY	0.01		0.57	1982	0.02	-0.01	0.01
MONTH TO DATE	0.04				0.46	-0.42	0.11
SINCE OCT 1	13.32				16.33	-3.01	14.98
SINCE JAN 1	7.64				10.56	-2.92	7.75
SNOWFALL (IN)							
YESTERDAY	0.0		0.0	1999 2001 2002	0.1	-0.1	0.0
MONTH TO DATE	0.0				0.1	-0.1	0.0
SINCE SEP 1	0.0				0.1	-0.1	0.0
SINCE JUL 1	0.0				0.1	-0.1	0.0
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
YESTERDAY	0				8	-8	0
MONTH TO DATE	32				117	-85	65
SINCE SEP 1	32				117	-85	65
SINCE JUL 1	52				171	-119	84
COOLING							
YESTERDAY	7				0	7	3
MONTH TO DATE	126				43	83	46
SINCE SEP 1	126				43	83	46
SINCE JAN 1	869				512	357	792

WIND (MPH)			
HIGHEST WIND SPEED	43	HIGHEST WIND DIRECTION	W (250)
HIGHEST GUST SPEED	61	HIGHEST GUST DIRECTION	W (250)
AVERAGE WIND SPEED	13.6		

BPA-2025-03068-F 1133

31370499

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.7

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  THUNDERSTORM
  LIGHT RAIN
  HAZE
  SANDSTORM

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   83   1000 PM
 LOWEST   27   100 PM
 AVERAGE   55

.....

THE SPOKANE WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	69	87	1952
MINIMUM TEMPERATURE (F)	45	28	1908

SUNRISE AND SUNSET
SEPTEMBER 26 2024.....SUNRISE   643 AM PDT   SUNSET   638 PM PDT
SEPTEMBER 27 2024.....SUNRISE   645 AM PDT   SUNSET   636 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA-2025-03068-F 1134

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**10/23/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1 / 115kV	**26/6**

Date Outage Occured	Outage ID	Duration of Outage
10/18/2024	**227801**	**7hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
spruce	**30"**	**160'**

LOCATION OF TREE

Distance from Centerline **150'** Manage ROW Width **100'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **20** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This large 30" DBH spruce had root rot and fell do to high winds, knocking down 6 other trees and broke the tops out of 2 more trees that where 100' tall. Another 24" DBH spruce tree shows advance signs of disease with Basal Resinosis, and the hill side is littered failed trees.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climate

Weather.gov > Seattle/Tacoma, WA > Climate

Seattle/Tacoma, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle Tacoma, WA
Ol m ia, WA
WFO Seattle, WA
illa te Air ort, WA
elli gham, WA
o iam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the Last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Click for access to archived data.

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CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
617 PM PDT FRI OCT 18 2024

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR OCTOBER 18 2024...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE    (LST)  VALUE       VALUE  FROM      YEAR
                                                  NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM        52    459 PM  71    2023  60     -8        71
  MINIMUM        44    708 AM  32    1949  47     -3        51
  AVERAGE        48                        53     -5        61

PRECIPITATION (IN)
  TODAY          0.03           2.23 1947   0.13  -0.10     0.00
  MONTH TO DATE  0.95                       1.88  -0.93     2.12
  SINCE OCT 1    0.95                       1.88  -0.93     2.12
  SINCE JAN 1   19.73                      25.28  -5.55    19.94

SNOWFALL (IN)
  TODAY          0.0            MM    MM                    0.0
  MONTH TO DATE  0.0                                        0.0
  SINCE OCT 1    0.0                                        0.0
  SINCE JUL 1    0.0                                        0.0
  SNOW DEPTH     MM

DEGREE DAYS
 HEATING
  TODAY          17                       12     5         4
  MONTH TO DATE  162                     169    -7       109
  SINCE SEP 1    268                     271    -3       217
  SINCE JUL 1    306                     326   -20       229

 COOLING
  TODAY           0                       0     0         0
  MONTH TO DATE   0                       0     0         0
  SINCE SEP 1    42                      30    12        25
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  SINCE JAN 1    315                    262     52      378
.....

WIND (MPH)
  RESULTANT WIND SPEED    8   RESULTANT WIND DIRECTION    S (170)
  HIGHEST WIND SPEED     13   HIGHEST WIND DIRECTION      S (180)
  HIGHEST GUST SPEED     25   HIGHEST GUST DIRECTION      E (80)
  AVERAGE WIND SPEED      8.1

SKY COVER
  AVERAGE SKY COVER 0.8

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     90          200 AM
 LOWEST      66          400 PM
 AVERAGE     78

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THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TOMORROW
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   59        72      2014
 MINIMUM TEMPERATURE (F)   46        28      1949

SUNRISE AND SUNSET
OCTOBER 18 2024.....SUNRISE   733 AM PDT   SUNSET   615 PM PDT
OCTOBER 19 2024.....SUNRISE   735 AM PDT   SUNSET   613 PM PDT

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Brian Luis	**Longview**	**11/1/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Ross-Alcoa No. 3 / 230kV	**4/3**

Date Outage Occurred	Outage ID	Duration of Outage
11/1/2024	**228054**	**6 hours, 31 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **South**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Cottonwood	**15**	**95**

LOCATION OF TREE

Distance from Centerline **66 feet(mid-point between #3 and #4 lines)** Manage ROW Width **187.5**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **0**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Dead tree with internal decay broke off just above base. Tree was resting on line and burning before eventually breaking off. Failure occurred during high wind event with gusts up to 40 MPH.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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CDUS46 KPQR 012322
CLIPDX

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
422 PM PDT FRI NOV 01 2024

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...THE PORTLAND OR CLIMATE SUMMARY FOR NOVEMBER 1 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1940 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         58    258 PM  70    1969  58      0       55
  MINIMUM         50    637 AM  26    2003  43      7       48
  AVERAGE         54                        51      3       52

PRECIPITATION (IN)
  TODAY           0.24          1.31 1984   0.14   0.10     0.65
  MONTH TO DATE   0.24                      0.14   0.10     0.65
  SINCE OCT 1     3.39                      3.56  -0.17     3.14
  SINCE JAN 1    26.80                     25.84   0.96    22.40

SNOWFALL (IN)
  TODAY           0.0           0.0  2022
  MONTH TO DATE   0.0
  SINCE JUL 1     0.0

DEGREE DAYS
 HEATING
  TODAY          11                        14     -3       13
  MONTH TO DATE  11                        14     -3       13
  SINCE SEP 1   265                       371   -106      287
  SINCE JUL 1   269                       388   -119      288

 COOLING
  TODAY           0                         0      0        0
  MONTH TO DATE   0                         0      0        0
  SINCE SEP 1   119                        77     42      107
  SINCE JAN 1   751                       508    243      898
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    25   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    40   HIGHEST GUST DIRECTION     S (180)
  AVERAGE WIND SPEED    12.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    89          400 AM
 LOWEST     70          300 PM
 AVERAGE    80

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THE PORTLAND OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   58        68      1970
                                             1976
                                             2023
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MINIMUM TEMPERATURE (F) 43 27 2002

SUNRISE AND SUNSET
NOVEMBER 1 2024.....SUNRISE 751 AM PDT SUNSET 556 PM PDT
NOVEMBER 2 2024.....SUNRISE 752 AM PDT SUNSET 555 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**11/18/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lane-Wendson No 1 / 115kV	**16/5**

Date Outage Occurred	Outage ID	Duration of Outage
11/15/2024	**228202**	**According to DIR System-Wide report, it's still out**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**10" DBH**	**70**

LOCATION OF TREE

Distance from Centerline **50'** Manage ROW Width **100' (50' from centerline)**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Light wind and rain. Saturated soil caused the tree to uproot and burn the base and around the tree.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest123456789101112131415161718190ldest Click for access to archived data.

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CDUS46 KPQR 161201
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
401 AM PST SAT NOV 16 2024

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...THE EUGENE OR CLIMATE SUMMARY FOR NOVEMBER 15 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
...................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         53    325 PM  65    1906  53      0        54
                                      1912
                                      1999
  MINIMUM         34   1156 PM  14    1955  38     -4        44
  AVERAGE         44                       46     -2        49

PRECIPITATION (IN)
  YESTERDAY        0.02           3.61 1950   0.19  -0.17     0.09
  MONTH TO DATE    3.68                       2.65   1.03     2.60
  SINCE OCT 1      6.14                       5.82   0.32     5.35
  SINCE JAN 1     32.48                      30.29   2.19    21.77

SNOWFALL (IN)

  YESTERDAY       MM
  MONTH TO DATE    0.0
  SINCE JUL 1      0.0

DEGREE DAYS
 HEATING
  YESTERDAY       21                        20      1        16
  MONTH TO DATE  245                       268    -23       210
  SINCE SEP 1    612                       731   -119       589
  SINCE JUL 1    625                       779   -154       595
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 COOLING
  YESTERDAY        0                          0      0        0
  MONTH TO DATE    0                          0      0        0
  SINCE SEP 1     76                         39     37       54
  SINCE JAN 1    492                        293    199      594
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED     9   HIGHEST WIND DIRECTION    NW (300)
  HIGHEST GUST SPEED    13   HIGHEST GUST DIRECTION    NW (300)
  AVERAGE WIND SPEED     3.4


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.7


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    97           800 AM
 LOWEST     59           100 PM
 AVERAGE    78

.........................................................


THE EUGENE OR CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   53        71      1976
 MINIMUM TEMPERATURE (F)   38        21      1955
                                             2000
                                             2014


SUNRISE AND SUNSET
NOVEMBER 16 2024......SUNRISE   710 AM PST   SUNSET   445 PM PST
NOVEMBER 17 2024......SUNRISE   712 AM PST   SUNSET   444 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**11/19/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No.1 / 115kV	**21/8 BOL -34'**

Date Outage Occured	Outage ID	Duration of Outage
11/17/2024	**228248**	**Still out**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**11"**	**85'**

LOCATION OF TREE

Distance from Centerline **61'** Manage ROW Width **100' (50' From centerline)**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground		%	
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

High winds caused the tree to break off 10 ft. above from ground falling onto the line. Log was still burning from the inside out. I used water from a near by spring to put it out and dragged the last piece of log onto the road to keep it away from vegetation.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest123456789101112131415161718190ldest Click for access to archived data.

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CDUS46 KPQR 180021
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
421 PM PST SUN NOV 17 2024

.....................................

...THE EUGENE OR CLIMATE SUMMARY FOR NOVEMBER 17 2024...
VALID AS OF 0400 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2024
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WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
TODAY							
MAXIMUM	54	1147 AM	70	1932 2008	53	1	53
MINIMUM	46	355 PM	18	1955	38	8	46
AVERAGE	50				45	5	50
PRECIPITATION (IN)							
TODAY	0.65		1.78	1950	0.21	0.44	0.00
MONTH TO DATE	4.46				3.07	1.39	2.60
SINCE OCT 1	6.92				6.24	0.68	5.35
SINCE JAN 1	33.26				30.71	2.55	21.77
SNOWFALL (IN)							
TODAY	MM						
MONTH TO DATE	0.0						
SINCE JUL 1	0.0						
DEGREE DAYS							
HEATING							
TODAY	15				20	-5	15
MONTH TO DATE	284				308	-24	243
SINCE SEP 1	651				771	-120	622
SINCE JUL 1	664				819	-155	628

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 COOLING
  TODAY            0                         0      0        0
  MONTH TO DATE    0                         0      0        0
  SINCE SEP 1     76                        39     37       54
  SINCE JAN 1    492                       293    199      594
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    23   HIGHEST WIND DIRECTION     W (260)
  HIGHEST GUST SPEED    33   HIGHEST GUST DIRECTION     W (260)
  AVERAGE WIND SPEED    12.3


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    93          1000 AM
 LOWEST     77           200 PM
 AVERAGE    85

.........................................................


THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        69       1897
 MINIMUM TEMPERATURE (F)   37        21       2000
                                              2014
                                              2022


SUNRISE AND SUNSET
NOVEMBER 17 2024......SUNRISE   712 AM PST   SUNSET   444 PM PST
NOVEMBER 18 2024......SUNRISE   713 AM PST   SUNSET   443 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```











BPA F 4300 04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/19/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Boundary-Sacheen 230kV	25/3

Date Outage Occurred	Outage ID	Duration of Outage
11/17/2024	228243	673 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole pine	18"	75'

LOCATION OF TREE

Distance from Centerline 73' Manage ROW Width 250' (62.5' from centerline)

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree had a forked stem about 20' above the ground and each fork was about 12" dbh. Significant internal decay at the fork as shown in photos. Both stems contacted the line after breaking in high winds and heavy rainfall/first snowfall of the season.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Felts Field, WA
Deer Park, WA
Pullman, WA
Lewiston, ID
Moses Lake, WA
Ephrata, WA
Wenatchee, WA
Omak, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 7 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | Oldest | Click for access to archived data.

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CDUS46 KOTX 180848
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1248 AM PST MON NOV 18 2024

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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 17 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	43	611 PM	MM	MM	41	2	42
MINIMUM	33	540 AM	MM	MM	26	7	22
AVERAGE	38				34	4	32
PRECIPITATION (IN)							
YESTERDAY	0.23		MM	MM	0.10	0.13	0.00
MONTH TO DATE	3.81				1.51	2.30	2.32
SINCE OCT 1	4.95				3.51	1.44	3.05
SINCE JAN 1	14.63				18.20	-3.57	13.96
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	27				31	-4	33
MONTH TO DATE	455				493	-38	468
SINCE SEP 1	1164				1381	-217	1209
SINCE JUL 1	1218				1506	-288	1259
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	55				14	41	10
SINCE JAN 1	411				216	195	408

WIND (MPH)
  HIGHEST WIND SPEED 23 HIGHEST WIND DIRECTION S (180)
  HIGHEST GUST SPEED 32 HIGHEST GUST DIRECTION SW (210)
  AVERAGE WIND SPEED 8.5

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  MIXED PRECIP
  HEAVY RAIN
  LIGHT RAIN
  LT FREEZING RAIN
  LIGHT SNOW
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   78   1000 PM
 AVERAGE   89

.....

THE DEER PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	41	MM	MM
MINIMUM TEMPERATURE (F)	26	MM	MM

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE   701 AM PST   SUNSET   408 PM PST
NOVEMBER 19 2024.....SUNRISE   703 AM PST   SUNSET   407 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

Outage Information

5344	228243	2593-2024		Boundary-Sacheen No 1 230kV line : L		230.0	BEL	SPK	0		60.05	11/17/2024 00:20	11/17/2029 11:33	673		Auto	Tree	BPA		

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
OPS	BOUN	Boundary Substation			
OPS	SACH	Sacheen Substation			
SPC	BOUN	Boundary Substation			
SPC	SACH	Sacheen Substation			

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/25/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
BELL-BOUN-3 (230kV)	77/5

Date Outage Occurred	Outage ID	Duration of Outage
11/21/2024	228353 and 228355	2161 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Englemann Spruce	16"	85'

LOCATION OF TREE

Distance from Centerline 55' (403' AHOL) Manage ROW Width 100'

☑	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground 5 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

Meeting with logger and TLM F3 on site was previously arranged. Tree failure and outage unrelated to logging activities. NRS offered crew to help fall trees if necessary.

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Saturated soils and heavy snow/ice on tree caused it to uproot and fall on the line. Tree burned through the line between 1st and 2nd outages, causing line to break and fall onto roadway. TLM had to wait for approval to close Aladdin Rd. before making repair.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







Climate

Weather.gov > Spokane, WA > Climate

Spokane, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (●) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Spokane, WA
Felts Field, WA
Deer Park, WA
Pullman, WA
Lewiston, ID
Moses Lake, WA
Ephrata, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 7 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | Oldest | Click for access to archived data.

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CDUS46 KOTX 220842
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1242 AM PST FRI NOV 22 2024

.........................................
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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 21 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	41	204 PM	MM	MM	39	2	44
MINIMUM	36	111 AM	MM	MM	26	10	29
AVERAGE	39				33	6	37
PRECIPITATION (IN)							
YESTERDAY	0.17		MM	MM	0.09	0.08	0.00
MONTH TO DATE	4.41				1.89	2.52	2.41
SINCE OCT 1	5.55				3.89	1.66	3.14
SINCE JAN 1	15.23				18.58	-3.35	14.05
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	26				32	-6	28
MONTH TO DATE	573				621	-48	591
SINCE SEP 1	1282				1509	-227	1332
SINCE JUL 1	1336				1634	-298	1382
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	55				14	41	10
SINCE JAN 1	411				216	195	408

WIND (MPH)
  HIGHEST WIND SPEED 10 HIGHEST WIND DIRECTION N (20)
  HIGHEST GUST SPEED 14 HIGHEST GUST DIRECTION NE (30)
  AVERAGE WIND SPEED 4.4

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   93   500 PM
 AVERAGE   97

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	39	MM	MM
MINIMUM TEMPERATURE (F)	26	MM	MM

SUNRISE AND SUNSET
NOVEMBER 22 2024.....SUNRISE   707 AM PST   SUNSET   404 PM PST
NOVEMBER 23 2024.....SUNRISE   708 AM PST   SUNSET   404 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

OARS

Home | Outage List | Trouble Report Instructions | Outage Guidelines

SPC Trouble Report

Dispatcher and Reference Information:

Equipment Name			Out Datetime	In Datetime	Oms Outage ID
Bell-Boundary No 3 230kV line			11/21/2024 03:58	11/21/2024 04:00	2644-2024
Station	**Headquarters**	**Dispatch Cause**	**Responsible System**	**Total Miles**	**Oars Outage ID**
Bell Substation	Bell	Weather	BPA	108.07	228353

SPC Out Datetime	*# Faults	*Reported By
11/21/2024 03:58:03	1	Brett Loos

Component	Cause	Responsible System
Transmission Equipment	Tree	BPA

Lines Only: Fault Location from First Station listed in Equipment Name
84.9

Phase/Ground:	A Phase	B Phase	C Phase	Ground
	☐	☐	☐	☐

Type of Fault:	Phase to Phase	**Unsuccessful Reclose:**	Reclose Blocked: Proper
Relay Primary:	Proper 3 Phase	**Fault Clearing:**	Instantaneous
Relay Secondary:		**Fuse Operation:**	
TransferTrip:	Proper	**Additional Trouble:**	
Reclosing:	Unsuccessful	**System Control:**	Proper

NERC Misoperation Reporting:

* **Failed To Operate** No
* **Operated For Outside Fault** No
* **Operated For No Fault** No

What part of the protection system caused the problem?
Description of the problem:

Description of the corrective action:

Date and approximate time when the corrective action was completed:
Reference documents that help explain the problem or the corrective action:

NERC Relay Performance During Power Swings:

Did a relay trip in response to a power swing? No

If yes, date this was determined:

Last Update: 11/22/2024 06:58 ***Minimum Analysis Complete:** 11/22/2024 06:56 **Final Analysis Complete:** 11/22/2024 06:56

Comments

11/21/2024 Ops(BELL) Edit PCB A-572 tripped by relay action originally for an A to B phase fault. Dispatch put line back in service and it held for 10 minutes. It then tripped 2 more times for a C phase to ground fault.
11/21/2024 Ops(ADDY) Edit Tree in line at 74 mile -- MCC test energized successfully -- appears that tree remained in line until conductor burned through without tripping the line
11/22/2024 Spc(BOUN) looking at the fault record dfr it shows the pcb reigniting restriking. Edit

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
SPC	BOUN	Boundary Substation	11/22/2024 07:01	Tree	BPA
SPC	ADDY	Addy Substation	11/22/2024 07:01	Tree	BPA
SPC	BELL	Bell Substation	11/22/2024 06:58	Tree	BPA
OPS	ADDY	Addy Substation	11/21/2024 15:23	Tree	BPA
OPS	BELL	Bell Substation	11/21/2024 12:04	Weather	BPA
OPS	BOUN	Boundary Substation			

OARS

Home | Outage List | Trouble Report Instructions | Outage Guidelines

OPS Trouble Report

Dispatcher and Reference Information

Equipment Name			Out Datetime	In Datetime	Oms Outage ID
Bell-Boundary No 3 230kV line			11/21/2024 04:12	11/22/2024 16:13	2645-2024
Station	**Headquarters**	**Dispatch Cause**	**Responsible System**	**Total Miles**	**Oars Outage ID**
Boundary Substation	Bell	Weather	BPA	108.07	228355

Component: Conductor/Hardware
Cause: Tree
Responsible System: BPA
Dfr/Osc Operated: Yes
Fault Location (*from reporting station*): 31 miles
Local Weather: Snow
Temperature: 32
Reported By: Dawson Weilep

Trouble Report Last Update: 11/25/2024 09:16

PCB Information

PCB LBD	PCB Present Count	# Of Fault Operations	Is Reclosing Relay In?
A-1222	1964	3	Enabled

Target Information

Set	Type	Target
1	SEL-321	CG T +55.72 miles
2	SEL-321	CG T +57.08 miles

Transfer Trip Information

Set	Type	Target
1	MWTT	T1T=2, T2T=3, T1R=4, T2R=4, DTR=4, (DTR), (PTR)

Associated POD Outages

There are no associated POD outages.

Comments

11/22/2024 Spc(BOUN) TLM found conductor separated at 77/6 tower. if i understand correctly,.
Edit

11/25/2024 Ops(BOUN)
Edit
Conductor found severed in 77 mile -- appears to be due to tree on the line with not enough fault current for relays to detect until it burned through the conductor -- PCB counts and transfer trip targets are as found following multiple operations

11/25/2024 Ops(ADDY)
Edit
Conductor found severed in 77 mile -- appears to be due to tree on the line with not enough fault current for relays to detect until it burned through the conductor -- PCB counts, relay targets, and transfer trip targets are as found following multiple operations

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
OPS	ADDY	Addy Substation	11/25/2024 09:18		
OPS	BOUN	Boundary Substation	11/25/2024 09:16	Tree	BPA
SPC	ADDY	Addy Substation	11/22/2024 10:21	Line Material Failure	BPA
SPC	BELL	Bell Substation	11/22/2024 10:13	Line Material Failure	BPA
SPC	BOUN	Boundary Substation	11/22/2024 09:25	Line Material Failure	BPA
OPS	BELL	Bell Substation			

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Covington**	**11/21/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Covington-Maple Valley #2	**3/4, 7/2**

Date Outage Occurred	Outage ID	Duration of Outage
11/19/2024	**228279**	**24 hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **west**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**12-24**	**80-120**

LOCATION OF TREE

Distance from Centerline **77-100** Manage ROW Width **75**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **0** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Bomb Cyclone storm. 3/4-Large doug fir uprooted completely from 100 ft from centerline. Wet area and hard pan prevented deep roots. 7/2-large group of doug firs with small root wads blew over and uprooted. 6 tree hit line.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
Issued by NWS

310
CDUS46 KSEW 180930
CLISEA

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
130 AM PST MON NOV 18 2024

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...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 17 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	49	1038 AM	63	2020	52	-3	52
MINIMUM	40	1106 PM	23	1955	41	-1	33
AVERAGE	45				46	-1	43

PRECIPITATION (IN)

YESTERDAY	0.03	1.34	1946	0.23	-0.20	0.00
MONTH TO DATE	3.29			3.54	-0.25	5.09
SINCE OCT 1	6.33			7.45	-1.12	7.98
SINCE JAN 1	25.11			30.85	-5.74	25.80

SNOWFALL (IN)

YESTERDAY	0.0	4.6	1955			0.0
MONTH TO DATE	0.0					0.0
SINCE OCT 1	0.0					0.0
SINCE JUL 1	0.0					0.0
SNOW DEPTH	0					

DEGREE DAYS

HEATING

YESTERDAY	20			19	1	22
MONTH TO DATE	281			293	-12	283
SINCE SEP 1	723			744	-21	676
SINCE JUL 1	761			799	-38	688

COOLING

YESTERDAY	0			0	0	0
MONTH TO DATE	0			0	0	0
SINCE SEP 1	42			30	12	26
SINCE JAN 1	315			263	52	378

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WIND (MPH)

RESULTANT WIND SPEED 15 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 24 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 36 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 15.9

SKY COVER

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	1200 AM
LOWEST	79	1100 PM
AVERAGE	88	

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THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	52	59	1965
MINIMUM TEMPERATURE (F)	40	28	1946

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE 719 AM PST SUNSET 429 PM PST
NOVEMBER 19 2024.....SUNRISE 721 AM PST SUNSET 428 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

USA.gov

- US Dept of Commerce
- National Oceanic and Atmospheric Administration
- National Weather Service
- 1325 East West Highway
- Silver Spring, MD 20910
- Comments? Questions? Please Contact Us.
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- Freedom of Information Act (FOIA)
- About Us
- Career Opportunities







BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Covington**	**11/21/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Covington-Maple Valley #2	**3/4, 7/2**

Date Outage Occurred	Outage ID	Duration of Outage
11/19/2024	**228279**	**24 hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **west**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**12-24**	**80-120**

LOCATION OF TREE

Distance from Centerline **77-100** Manage ROW Width **75**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **0** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Bomb Cyclone storm. 3/4-Large doug fir uprooted completely from 100 ft from centerline. Wet area and hard pan prevented deep roots. 7/2-large group of doug firs with small root wads blew over and uprooted. 6 tree hit line.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
130 AM PST MON NOV 18 2024

.....

...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 17 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	49	1038 AM	63	2020	52	-3	52
MINIMUM	40	1106 PM	23	1955	41	-1	33
AVERAGE	45				46	-1	43

PRECIPITATION (IN)

YESTERDAY	0.03	1.34	1946	0.23	-0.20	0.00
MONTH TO DATE	3.29			3.54	-0.25	5.09
SINCE OCT 1	6.33			7.45	-1.12	7.98
SINCE JAN 1	25.11			30.85	-5.74	25.80

SNOWFALL (IN)

YESTERDAY	0.0	4.6	1955			0.0
MONTH TO DATE	0.0					0.0
SINCE OCT 1	0.0					0.0
SINCE JUL 1	0.0					0.0
SNOW DEPTH	0					

DEGREE DAYS

HEATING

YESTERDAY	20	19	1	22
MONTH TO DATE	281	293	-12	283
SINCE SEP 1	723	744	-21	676
SINCE JUL 1	761	799	-38	688

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	42	30	12	26
SINCE JAN 1	315	263	52	378

.....

WIND (MPH)

RESULTANT WIND SPEED 15 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 24 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 36 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 15.9

SKY COVER

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	1200 AM
LOWEST	79	1100 PM
AVERAGE	88	

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	52	59	1965
MINIMUM TEMPERATURE (F)	40	28	1946

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE 719 AM PST SUNSET 429 PM PST
NOVEMBER 19 2024.....SUNRISE 721 AM PST SUNSET 428 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Covington**	**11/21/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Mt Si-Tanner #1 / 115Kv	**2/5**

Date Outage Occurred	Outage ID	Duration of Outage
11/19/2024	**228295**	**31 hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**30 in**	**110**

LOCATION OF TREE

Distance from Centerline **35** Manage ROW Width **25**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **0** %			
☑	Right Side	On or Off ROW?	☐ On	☐	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☑	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Bomb Cyclone storm. Large, dead doug fir broke off and hit Tanner Tap and under build.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
130 AM PST MON NOV 18 2024

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...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 17 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	49	1038 AM	63	2020	52	-3	52
MINIMUM	40	1106 PM	23	1955	41	-1	33
AVERAGE	45				46	-1	43

PRECIPITATION (IN)

YESTERDAY	0.03	1.34	1946	0.23	-0.20	0.00
MONTH TO DATE	3.29			3.54	-0.25	5.09
SINCE OCT 1	6.33			7.45	-1.12	7.98
SINCE JAN 1	25.11			30.85	-5.74	25.80

SNOWFALL (IN)

YESTERDAY	0.0	4.6	1955		0.0
MONTH TO DATE	0.0				0.0
SINCE OCT 1	0.0			0.0	
SINCE JUL 1	0.0			0.0	

SNOW DEPTH 0

DEGREE DAYS

HEATING

YESTERDAY	20	19	1	22
MONTH TO DATE	281	293	-12	283
SINCE SEP 1	723	744	-21	676
SINCE JUL 1	761	799	-38	688

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	42	30	12	26
SINCE JAN 1	315	263	52	378

.....

WIND (MPH)

RESULTANT WIND SPEED 15 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 24 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 36 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 15.9

SKY COVER

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	1200 AM
LOWEST	79	1100 PM
AVERAGE	88	

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	52	59	1965
MINIMUM TEMPERATURE (F)	40	28	1946

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE 719 AM PST SUNSET 429 PM PST
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jacob Grinolds	**Covington**	**11/26/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Sammamish-Maple Valley #1 / 115kV	**13/4, 14/4, 15/5, 23/1**

Date Outage Occured	Outage ID	Duration of Outage
11/19/2024	**228282**	**88 hrs, restoration still active**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas Fir	**20 inch**	**100**

LOCATION OF TREE

Distance from Centerline **80-120** Manage ROW Width **75**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☑	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Bomb Cyclone Storm. 13/4-Large Doug fir mid span uprooted, shows sign of root rot, wet area. 14/3-Large Doug fir with signs of heart rot, snapped off. 15/5-Large co-dom Doug Fir snapped off and destroyed the tower. 23/1- Huge blow down area with 15 plus trees hit and destroy

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
130 AM PST MON NOV 18 2024

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CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	49	1038 AM	63	2020	52	-3	52
MINIMUM	40	1106 PM	23	1955	41	-1	33
AVERAGE	45				46	-1	43

PRECIPITATION (IN)

YESTERDAY	0.03	1.34	1946	0.23	-0.20	0.00
MONTH TO DATE	3.29			3.54	-0.25	5.09
SINCE OCT 1	6.33			7.45	-1.12	7.98
SINCE JAN 1	25.11			30.85	-5.74	25.80

SNOWFALL (IN)

YESTERDAY	0.0	4.6	1955			0.0
MONTH TO DATE	0.0					0.0
SINCE OCT 1	0.0					0.0
SINCE JUL 1	0.0					0.0
SNOW DEPTH	0					

DEGREE DAYS

HEATING

YESTERDAY	20	19	1	22
MONTH TO DATE	281	293	-12	283
SINCE SEP 1	723	744	-21	676
SINCE JUL 1	761	799	-38	688

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	42	30	12	26
SINCE JAN 1	315	263	52	378

.....

WIND (MPH)

RESULTANT WIND SPEED 15 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 24 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 36 HIGHEST GUST DIRECTION SW (220)
AVERAGE WIND SPEED 15.9

SKY COVER

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	1200 AM
LOWEST	79	1100 PM
AVERAGE	88	

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	52	59	1965
MINIMUM TEMPERATURE (F)	40	28	1946

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE 719 AM PST SUNSET 429 PM PST
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Covington**	**11/27/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
COVI-BETS -1 / 230kV	**10/2**

Date Outage Occurred	Outage ID	Duration of Outage
11/19/2024	**228276**	**24hr**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**8" to 17"**	**50 to 100'**

LOCATION OF TREE

Distance from Centerline **Laser was not working due to Fog.** Manage ROW Width **100'**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **28** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This area consistently has recurring tree outages and needs the DT crew to complete a through evaluation. Significant amounts of root disease and very shallow soil over a rocky sub straight.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
Issued by NWS

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CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
127 AM PST TUE NOV 19 2024

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...THE SEATTLE-TACOMA WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 18 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1945 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	43	351 PM	59	1965	52	-9	51
MINIMUM	39	1159 PM	28	1946	40	-1	35
AVERAGE	41				46	-5	43

PRECIPITATION (IN)

YESTERDAY	0.07	2.06	2003	0.22	-0.15	0.27
MONTH TO DATE	3.36			3.76	-0.40	5.36
SINCE OCT 1	6.40			7.67	-1.27	8.25
SINCE JAN 1	25.18			31.07	-5.89	26.07

SNOWFALL (IN)

YESTERDAY	0.0	9.4	1946			0.0
MONTH TO DATE	0.0					0.0
SINCE OCT 1	0.0					0.0
SINCE JUL 1	0.0					0.0
SNOW DEPTH	0					

DEGREE DAYS

HEATING

YESTERDAY	24	19	5	22
MONTH TO DATE	305	312	-7	305
SINCE SEP 1	747	763	-16	698
SINCE JUL 1	785	818	-33	710

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	42	30	12	26
SINCE JAN 1	315	263	52	378

.....

WIND (MPH)

RESULTANT WIND SPEED 11 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 21 HIGHEST WIND DIRECTION SW (210)
HIGHEST GUST SPEED 32 HIGHEST GUST DIRECTION S (200)
AVERAGE WIND SPEED 10.9

SKY COVER

AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	89	200 AM
LOWEST	70	700 PM
AVERAGE	80	

.....

THE SEATTLE-TACOMA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	51	60	1965
			1987
			2008
MINIMUM TEMPERATURE (F)	40	23	1946

SUNRISE AND SUNSET
NOVEMBER 19 2024.....SUNRISE 721 AM PST SUNSET 428 PM PST
NOVEMBER 20 2024.....SUNRISE 722 AM PST SUNSET 427 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

USA.gov

- US Dept of Commerce
- National Oceanic and Atmospheric Administration
- National Weather Service
- 1325 East West Highway
- Silver Spring, MD 20910
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Kyle Goeke	Kalispell	12/3/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Columbia Falls - Trego No 1 / 115 kV	24/4 - 24/5

Date Outage Occurred	Outage ID	Duration of Outage
11/30/2024	228416	286 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	14 in	76 ft

LOCATION OF TREE

Distance from Centerline 57 ft — Manage ROW Width 100 ft

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

On 11/30, two off-ROW LP failed due to snow load and came in contact with conductors on COFL-TREG. Both trees were alive and unmarked at the time. Neither tree had evidence of decay, significant snow in area over previous weeks was likely cause of failure

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
Issued by NWS Missoula, MT

656
CDUS45 KMSO 301540
CLIGPI

CLIMATE REPORT
NATIONAL WEATHER SERVICE MISSOULA MT
840 AM MST SAT NOV 30 2024

.....

...THE KALISPELL MT CLIMATE SUMMARY FOR NOVEMBER 30 2024...
VALID AS OF 0800 AM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1894 TO 2024

WEATHER ITEM	OBSERVED VALUE	RECORD VALUE	YEAR	NORMAL VALUE
TEMPERATURE (F)				
TODAY				
MINIMUM	17	-10	1975	21
PRECIPITATION (IN)				
TODAY	0.00			

.....

SUNRISE AND SUNSET
NOVEMBER 30 2024.....SUNRISE 806 AM MST SUNSET 445 PM MST
DECEMBER 1 2024.....SUNRISE 808 AM MST SUNSET 445 PM MST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

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- National Oceanic and Atmospheric Administration
- National Weather Service
- 1325 East West Highway
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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	11/19/2024

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Boundary-Sacheen / 230kV	25/3

Date Outage Occured	Outage ID	Duration of Outage
11/17/2024	228242 and 228243	17 minutes and 673 minutes

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☑	Snow
☑	Strong Wind *(Indicate direction)* SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other**:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole pine	18"	75'

LOCATION OF TREE

Distance from Centerline 73' Manage ROW Width 250' (62.5' from centerline)

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 0 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree had a forked stem about 20' above the ground and each fork was about 12" dbh. Significant internal decay at the fork as shown in photos. Both stems contacted the line after breaking in high winds and heavy rainfall/first snowfall of the season.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.







31370504

Climate

Weather.gov > Spokane, WA > Climate

Spokane, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Felts Field, WA
Deer Park, WA
Pullman, WA
Lewiston, ID
Moses Lake, WA
Ephrata, WA
Wenatchee, WA
Omak, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 7 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | Oldest | Click for access to archived data.

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CDUS46 KOTX 180848
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
1248 AM PST MON NOV 18 2024

.....................................
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BPA-2025-03068-F 1233

31370504

...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR NOVEMBER 17 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	43	611 PM	MM	MM	41	2	42
MINIMUM	33	540 AM	MM	MM	26	7	22
AVERAGE	38				34	4	32
PRECIPITATION (IN)							
YESTERDAY	0.23		MM	MM	0.10	0.13	0.00
MONTH TO DATE	3.81				1.51	2.30	2.32
SINCE OCT 1	4.95				3.51	1.44	3.05
SINCE JAN 1	14.63				18.20	-3.57	13.96
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	27				31	-4	33
MONTH TO DATE	455				493	-38	468
SINCE SEP 1	1164				1381	-217	1209
SINCE JUL 1	1218				1506	-288	1259
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE SEP 1	55				14	41	10
SINCE JAN 1	411				216	195	408

WIND (MPH)
HIGHEST WIND SPEED 23 HIGHEST WIND DIRECTION S (180)
HIGHEST GUST SPEED 32 HIGHEST GUST DIRECTION SW (210)
AVERAGE WIND SPEED 8.5

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

BPA-2025-03068-F 1234

31370504

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  MIXED PRECIP
  HEAVY RAIN
  LIGHT RAIN
  LT FREEZING RAIN
  LIGHT SNOW
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   78   1000 PM
 AVERAGE   89

.....

THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	41	MM	MM
MINIMUM TEMPERATURE (F)	26	MM	MM

SUNRISE AND SUNSET
NOVEMBER 18 2024.....SUNRISE   701 AM PST   SUNSET   408 PM PST
NOVEMBER 19 2024.....SUNRISE   703 AM PST   SUNSET   407 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

BPA-2025-03068-F 1235

OARS

Home

Outage Information

Trend ID	Oars Outage ID	Oms Outage ID	Consolidated Name	FOD/Line Name	Type	Sub Flag	Kv	Nackel ID	O&M District	Subsidiary Ownership	Length Mile	Dis Date/Time	Tr Date/Time	Duration Minutes	Auto Plan	Cause	Responsible System	Component	Division	Transmission (F)
5344	228243	2593-2024		Boundary-Sacheen No 1 230kV line	1		230.0	BEL	SPK	0	60.05	11/17/2024 00:20	11/17/2024 11:33	673	Auto	Tree	BPA			

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
OPS	BOUN	Boundary Substation			
OPS	SACH	Sacheen Substation			
SPC	BOUN	Boundary Substation			
SPC	SACH	Sacheen Substation			

OARS (Outage Analysis and Reporting System) Version 1.2.65.0, User: BUD\CJF7367, Role: OPI-OARS-SpcEditors,SQL Server: DZPRDSQL60CRP,Database: OARS
For content-related issues contact **Denise Allen 360.418.2908** For access or software-related issues contact **Ralph Erdmann 360.418.2333**

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**12/18/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM 1 / 115kV	**14/1**

Date Outage Occurred	Outage ID	Duration of Outage
12/14/2024	**228550**	**Still out!! (as of 12/19/24)**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Northerly**	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the TO or GO or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
spruce	**37"**	**150'**

LOCATION OF TREE

Distance from Centerline **80'** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **2**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☑	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☑	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree showed sighns of internal decay with Basal Resinosis. Two structures where damaged due to this outage.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Heavy Snow and Strong Winds Across the North-Central U.S.; Heavy Rain and Flash Flooding in American Samoa and Puerto Rico

Areas of moderate to heavy snow and gusty to high winds are expected across the Northern Plains, Upper Midwest and Great Lakes into Friday. Several inches of snow accumulation is expected. Heavy rain will bring an isolated flash flood threat to Puerto Rico and flash flooding along with mudslides to American Samoa today. Read More >

1. Choose a Product

Daily Climate Report (CLI)
Preliminary Monthly Climate Data (CF6)
Record Event Report (RER)
Monthly Weather Summary (CLM)
Routine Temperature/Precip (RTP)

2. Choose a Location

Seattle-Tacoma, WAOlympia, WAWFO Seattle, WAQuillayute Airport, WABellingham, WAHoquiam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days
This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).
There are 14 versions of this product stored.
Newest123456789101112Oldest Click for access to archived data.

000
CDUS46 KSEW 140928
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
128 AM PST SAT DEC 14 2024

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR DECEMBER 13 2024...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2024

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	46	1159 PM	60	1952	45	1	53
MINIMUM	37	530 AM	12	1967	33	4	35
AVERAGE	42				39	3	44
PRECIPITATION (IN)							
YESTERDAY	0.51		2.12	2001	0.25	0.26	0.00
MONTH TO DATE	1.70				3.33	-1.63	8.75
SINCE OCT 1	12.36				16.61	-4.25	18.39
SINCE JAN 1	40.95				46.10	-5.15	39.54
DEGREE DAYS							
HEATING							
YESTERDAY	23				26	-3	21
MONTH TO DATE	334				333	1	230
SINCE DEC 1	334				333	1	230
SINCE JUL 1	1521				1764	-243	1430
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	214				113	101	203

WIND (MPH)
RESULTANT WIND SPEED 1 RESULTANT WIND DIRECTION SW (220)
HIGHEST WIND SPEED 10 HIGHEST WIND DIRECTION S (170)
HIGHEST GUST SPEED 14 HIGHEST GUST DIRECTION SW (240)
AVERAGE WIND SPEED 2.4

SKY COVER
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST 100 700 PM
LOWEST 89 1100 AM
AVERAGE 95

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	45	59	1952
MINIMUM TEMPERATURE (F)	33	15	1967

SUNRISE AND SUNSET
DECEMBER 14 2024.....SUNRISE 750 AM PST SUNSET 423 PM PST
DECEMBER 15 2024.....SUNRISE 751 AM PST SUNSET 423 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

USA.gov
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National Oceanic and Atmospheric Administration
National Weather Service
Seattle/Tacoma, WA
7600 Sand Point Way NE
Seattle, WA 98115-6349

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**1/2/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
MOSY-CHEH	**15/1**

Date Outage Occurred	Outage ID	Duration of Outage
12/19/2024	**228646**	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Southerly**	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**18"**	**78'**

LOCATION OF TREE

Distance from Centerline **68'** Manage ROW Width **60'**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **0** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree had root rot and failed due to structural weakness of the roots.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Vince Martinez	Alvey	1/8/2025

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Lookout Point Power house to Lookout Point No. 1 115kv line	0/1

Date Outage Occured	Outage ID	Duration of Outage
12/26/2024	228728	

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* S SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the contrd of an appicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Cedar	28	90

LOCATION OF TREE

Distance from Centerline 51 Manage ROW Width 50

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 12 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

N/A

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Pictures attached

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Data for Eugene Area, OR (ThreadEx) - December 2024

Date	Temperature				HDD	CDD	Precipitation	New Snow	Snow Depth
	Maximum	Minimum	Average	Departure					
2024-12-01	36	32	34.0	-8.1	31	0	0.00	0.0	0
2024-12-02	34	32	33.0	-8.9	32	0	0.00	0.0	0
2024-12-03	36	31	33.5	-8.2	31	0	0.00	0.0	0
2024-12-04	37	31	34.0	-7.6	31	0	T	0.0	0
2024-12-05	36	31	33.5	-7.9	31	0	0.00	0.0	0
2024-12-06	40	30	35.0	-6.2	30	0	0.00	0.0	0
2024-12-07	54	34	44.0	2.9	21	0	0.34	0.0	0
2024-12-08	50	33	41.5	0.5	23	0	0.03	0.0	0
2024-12-09	40	36	38.0	-2.8	27	0	0.00	0.0	0
2024-12-10	39	35	37.0	-3.7	28	0	0.00	0.0	0
2024-12-11	39	36	37.5	-3.1	27	0	0.22	0.0	0
2024-12-12	46	38	42.0	1.5	23	0	0.09	0.0	0
2024-12-13	50	37	43.5	3.1	21	0	0.50	0.0	0
2024-12-14	50	42	46.0	5.7	19	0	0.22	0.0	0
2024-12-15	51	41	46.0	5.8	19	0	0.46	0.0	0
2024-12-16	50	44	47.0	6.8	18	0	0.95	0.0	0
2024-12-17	58	49	53.5	13.4	11	0	0.28	0.0	0
2024-12-18	62	48	55.0	14.9	10	0	0.18	0.0	0
2024-12-19	56	43	49.5	9.5	15	0	T	0.0	0
2024-12-20	53	41	47.0	7.0	18	0	T	0.0	0
2024-12-21	55	42	48.5	8.5	16	0	0.12	0.0	0
2024-12-22	54	43	48.5	8.5	16	0	0.37	0.0	0
2024-12-23	53	34	43.5	3.5	21	0	0.61	0.0	0
2024-12-24	54	38	46.0	6.0	19	0	0.28	0.0	0
2024-12-25	51	37	44.0	4.0	21	0	0.52	0.0	0
2024-12-26	52	46	49.0	8.9	16	0	0.58	0.0	0
2024-12-27	52	46	49.0	8.9	16	0	0.82	0.0	0
2024-12-28	54	45	49.5	9.4	15	0	0.65	0.0	0
2024-12-29	53	41	47.0	6.8	18	0	0.71	0.0	0
2024-12-30	48	34	41.0	0.7	24	0	0.07	0.0	0
2024-12-31	45	33	39.0	-1.3	26	0	0.09	0.0	0
Sum	1488	1183	-	-	674	0	8.09	0.0	-
Average	48.0	38.2	43.1	2.5	-	-	-	-	0.0
Normal	46.8	34.3	40.6	-	758	0	7.21	M	-

Observations for each day cover the 24 hours ending at the time given below (Local Standard Time).
Max Temperature : midnight
Min Temperature : midnight
Precipitation : midnight
Snowfall : midnight
Snow Depth : 4am

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**1/15/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Hills Creek-Lookout Point No. 1 / 115kV	**14/6 +110' AOL Right Side**

Date Outage Occured	Outage ID	Duration of Outage
12/31/2024	**228743**	**25 Min.**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☐	Snow
☐	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
D. Fir	**32"**	**140'**

LOCATION OF TREE

Distance from Centerline **117'** Manage ROW Width **100' (50' from centerline)**

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground	%		
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Moderate winds and rain caused the tree to fail due to root rot.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.



BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	**Spokane**	**1/7/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
ADDY-CUSICK-1 (USK-BOUNDARY-1) - 230kV	**ADDY-CUSI - 15/3**

Date Outage Occurred	Outage ID	Duration of Outage
1/5/2025	**228784**	**0755 - 1051 (176 Minutes)**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)*	☑	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Lodgepole Pine	**14"**	**70'**

LOCATION OF TREE

Distance from Centerline **55'** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☐	Downhill	%Slope of ground **0**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☑	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree uprooted under recently fallen heavy/wet snow load. Tree came to rest on outside conductor, burning the top of tree black as seen in photos. Similar sized trees nearby, but no obvious uprooting or leaning towards lines.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code:MA-12-11 Retention:Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.





OARS

Home

Outage Information

TrmID	Oars Outage ID	Dms Outage ID	Customer Name	PDD/Line Name	Type	Gen Flag	kV	OpsSpc HQ	O&M District	Reliability Ownership	Length Mile	OutDateTime	InDateTime	Duration Minutes	Auto Plan	Cause	Responsible System	Comment	Wea
60	228784	2809-2025		Usk-Boundary No 1 230kV line	L	G	230.0	BEL	SPK	1	55.04	1/5/2025 07:55	1/5/2025 10:51	176	Auto	Unknown	BPA		
2076	228784	2809-2025		Usk-Cusick section of Usk-Boundary No 1 230kV line	S		230.0	BEL	SPK	0	6.86	1/5/2025 07:55	1/5/2025 10:51	176	Auto	Unknown	BPA		
2075	228784	2809-2025		Cusick-Boundary section of Usk-Boundary No 1 230kV line	S		230.0	BEL	SPK	0	48.18	1/5/2025 07:55	1/5/2025 10:50	175	Auto	Unknown	BPA		

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
OPS	BOUN	Boundary Substation			
OPS	USKS	Usk Substation			
SPC	BOUN	Boundary Substation			
SPC	USKS	Usk Substation			

OARS (Outage Analysis and Reporting System) Version 1.2.65.0, User: BUD\CJF7367, Role: OPI-OARS-SpcEditors,SQL Server: DZPRDSQL60CRP,Database: OARS
For content-related issues contact **Denise Allen 360.418.2908** For access or software-related issues contact **Ralph Erdmann 360.418.2333**

Climate

Weather.gov > Spokane, WA > Climate

Spokane, WA
Weather Forecast Office

NOWData | Observed Weather | Climate Prediction and Variability | Local Data/Records | Climate Resources

1. Choose a Product

- (●) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

Spokane, WA
Felts Field, WA
Deer Park, WA
Pullman, WA
Lewiston, ID
Moses Lake, WA
Ephrata, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 7 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | Oldest | Click for access to archived data.

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CDUS46 KOTX 060900
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
100 AM PST MON JAN 06 2025

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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR JANUARY 5 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	38	251 PM	MM	MM	33	5	37
MINIMUM	31	1159 PM	MM	MM	21	10	30
AVERAGE	35				27	8	34
PRECIPITATION (IN)							
YESTERDAY	0.20		MM	MM	0.11	0.09	0.00
MONTH TO DATE	0.72				0.53	0.19	0.16
SINCE OCT 1	11.40				8.36	3.04	7.17
SINCE JAN 1	0.72				0.53	0.19	0.16
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	30				38	-8	31
MONTH TO DATE	164				192	-28	150
SINCE DEC 1	1117				1364	-247	1132
SINCE JUL 1	2726				3303	-577	2844
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE DEC 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)
  HIGHEST WIND SPEED 7 HIGHEST WIND DIRECTION NW (320)
  HIGHEST GUST SPEED 8 HIGHEST GUST DIRECTION NW (310)
  AVERAGE WIND SPEED 1.8

SKY COVER
  POSSIBLE SUNSHINE MM
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  LIGHT RAIN
  LIGHT SNOW
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST   100   1200 AM
 LOWEST   89   200 PM
 AVERAGE   95

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THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	33	MM	MM
MINIMUM TEMPERATURE (F)	21	MM	MM

SUNRISE AND SUNSET
JANUARY 6 2025.......SUNRISE   738 AM PST   SUNSET   413 PM PST
JANUARY 7 2025.......SUNRISE   738 AM PST   SUNSET   414 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/11/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1 / 115kV	**35/1**

Date Outage Occurred	Outage ID	Duration of Outage
2/3/2024	**228907**	**938**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)* **Southerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**10"**	**60'**

LOCATION OF TREE

Distance from Centerline **75'** Manage ROW Width **100'**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **45** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree had root rot and failed due to structural weakness of the roots from snow loading and winds. Tree was on FS property and by the pictures you can see the presents of root rot in area indicated by trees showing signs of thinning and yellowing needles and heavy cone crops.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
Issued by NWS

546
CDUS46 KSEW 020928
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
128 AM PST SUN FEB 02 2025

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 1 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	42	1238 PM	67	1962	48	-6	60
MINIMUM	31	1059 PM	-1	1950	33	-2	43
AVERAGE	37				40	-3	52

PRECIPITATION (IN)

YESTERDAY	0.19	1.41	2000	0.20	-0.01	T
MONTH TO DATE	0.19			0.20	-0.01	T
SINCE OCT 1	23.61			29.13	-5.52	29.18
SINCE JAN 1	2.71			8.00	-5.29	8.82

DEGREE DAYS

HEATING				
YESTERDAY	28	25	3	13
MONTH TO DATE	28	25	3	13
SINCE DEC 1	1576	1623	-47	1334
SINCE JUL 1	2763	3054	-291	2534

COOLING				
YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE DEC 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

RESULTANT WIND SPEED 7 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 16 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 28 HIGHEST GUST DIRECTION S (180)
AVERAGE WIND SPEED 7.5

SKY COVER

AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

RAIN
LIGHT RAIN
LIGHT SNOW
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	100	1100 PM
LOWEST	82	1100 AM
AVERAGE	91	

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THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR

MAXIMUM TEMPERATURE (F)	48	70	1962
MINIMUM TEMPERATURE (F)	33	-1	1972

SUNRISE AND SUNSET
FEBRUARY 2 2025.....SUNRISE 734 AM PST SUNSET 517 PM PST
FEBRUARY 3 2025.....SUNRISE 733 AM PST SUNSET 518 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.











BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jake Marti	The Dalles	2/26/2025

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Knight - Ostrander / 500kV	48/4

Date Outage Occurred	Outage ID	Duration of Outage
2/25/2025	229089	665

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	19	120

LOCATION OF TREE

Distance from Centerline 116 — Manage ROW Width 75

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 30 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Root rot pocket. Other uprooted trees in the area. High winds and saturated soils combined with root rot caused the tree to fail. The outage occurred in the 48/4 span 650' AHOL.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

NOWData - NOAA Online Weather Data

Enlarge results | Print

Almanac for BONNEVILLE DAM, OR
February 25, 2025

Daily Data	Observed	Normal	Record Highest	Record Lowest
Max Temperature	58	49	67 in 1986	31 in 2023
Min Temperature	41	36	50 in 1986	21 in 2023
Avg Temperature	49.5	42.7	58.5 in 1986	26.0 in 2023
Precipitation	1.21	0.29	2.24 in 1994	0.00 in 2023
Snowfall	0.0	0.1	5.5 in 1994	0.0 in 2025
Snow Depth	0	-	6 in 1994	0 in 2025
HDD (base 65)	15	22	39 in 2023	6 in 1986
CDD (base 65)	0	0	0 in 2025	0 in 2025
Month-to-Date Summary	**Observed**	**Normal**	**Record Highest**	**Record Lowest**
Avg Max Temperature	43.6	46.9	53.9 in 2015	36.4 in 1989
Avg Min Temperature	32.7	35.4	41.8 in 1958	26.3 in 1956
Avg Temperature	38.2	41.2	47.2 in 2015	31.4 in 1956
Total Precipitation	11.12	7.77	20.32 in 1949	1.23 in 1993
Total Snowfall	4.6	3.2	31.5 in 1949	0.0 in 2020
Max Snow Depth	4	-	36 in 1950	0 in 2020
Total HDD (base 65)	663	596	833 in 1956	433 in 1991
Total CDD (base 65)	0	0	0 in 2025	0 in 2025
Year-to-Date Summary	**Observed**	**Normal**	**Record Highest**	**Record Lowest**
Avg Max Temperature	43.9	44.6	51.3 in 1953	33.5 in 1950
Avg Min Temperature	32.7	34.8	39.3 in 1992	23.9 in 1949
Avg Temperature	38.3	39.7	45.1 in 1953	30.0 in 1949
Total Precipitation	16.29	19.08	41.52 in 1953	6.23 in 1977

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)
- ( ) Annual Climate Report (CLA)

2. Choose a Location

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Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

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CLIDLS

CLIMATE REPORT
NATIONAL WEATHER SERVICE PENDLETON, OR
1228 AM PST TUE FEB 25 2025

.....

...THE DALLESPORT WA CLIMATE SUMMARY FOR FEBRUARY 24 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1948 TO 2025

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         51    516 PM  69    1995  51       0        61
  MINIMUM         34    640 AM  14    1962  33       1        36
  AVERAGE         43                        42       1        49

PRECIPITATION (IN)
  YESTERDAY      0.21          0.96 1994    0.06    0.15     0.00
  MONTH TO DATE  1.64                       1.38    0.26     0.84
  SINCE OCT 1    9.86                       9.55    0.31     9.62
  SINCE JAN 1    3.47                       3.76   -0.29     3.85

DEGREE DAYS
 HEATING
  YESTERDAY       22                        23      -1       16
  MONTH TO DATE  673                       604      69      555
  SINCE DEC 1   2354                      2386     -32     2307
  SINCE JUL 1   3222                      3459    -237     3254

 COOLING
  YESTERDAY       0                         0       0        0
  MONTH TO DATE   0                         0       0        0
  SINCE DEC 1     0                         0       0        0
  SINCE JAN 1     0                         0       0        0
.....................................................................

WIND (MPH)
  RESULTANT WIND SPEED   2   RESULTANT WIND DIRECTION   S (160)
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  HIGHEST WIND SPEED    20   HIGHEST WIND DIRECTION     S (200)
  HIGHEST GUST SPEED    29   HIGHEST GUST DIRECTION     W (270)

SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.5

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     96
 LOWEST      61
 AVERAGE     79

.....

THE DALLESPORT WA CLIMATE NORMALS FOR TODAY
                        NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   52        64      1968
 MINIMUM TEMPERATURE (F)   33        13      1993
                                             2023

SUNRISE AND SUNSET
FEBRUARY 25 2025.....SUNRISE   649 AM PST   SUNSET   547 PM PST
FEBRUARY 26 2025.....SUNRISE   648 AM PST   SUNSET   548 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jennifer Austin	Salem	1/29/2025

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CARL-TILL-1 / 230kV	20/2

Date Outage Occurred	Outage ID	Duration of Outage
12/26/2024	228692	7 hrs

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☑	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	11"	80ft

LOCATION OF TREE

Distance from Centerline 68ft Manage ROW Width 50ft

☐	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground 5 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☑	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This outage occurred on 12/26/2024 at approx. 3:20AM. The tree in question, a small Douglas fir, snapped about 10ft up on the main stem due to the strong winds of the storm. The tree was blown off by the wind gusts while TLM was on site. Tree showed recent signs of bug infestation.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

45.56 °N, 122.62 °W

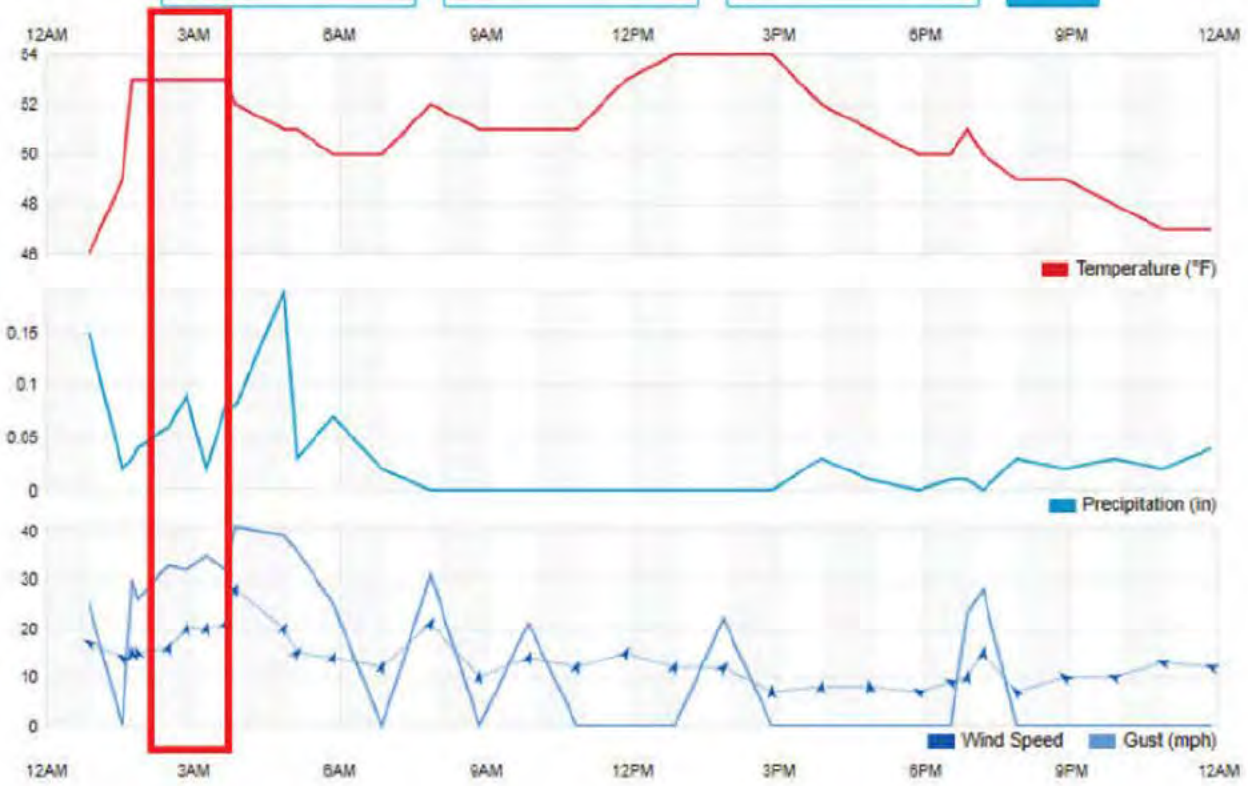
Portland, OR Weather History

50° PORTLAND INTL AIRPORT STATION | CHANGE

TODAY | HOURLY | 10-DAY | CALENDAR | **HISTORY** | WUNDERMAP

Daily | Weekly | Monthly

December | 26 | 2024 | View



Summary

Temperature (°F)	Actual	Historic Avg.	Record
High Temp	54	45.9	63
Low Temp	46	35.6	22
Day Average Temp	50.97	40.7	-
Precipitation (in)	Actual	Historic Avg.	Record
Precipitation (past 24 hours from 11:53:00)	1.45	--	-
Dew Point (°F)	Actual	Historic Avg.	Record
Dew Point	44.53	-	-
High	47	-	-
Low	42	-	-
Average	44.53	-	-

Wind (mph)	Actual	Historic Avg.	Record
Max Wind Speed	28	-	-
Visibility	10	-	-

Sea Level Pressure (in)	Actual	Historic Avg.	Record
Sea Level Pressure	29.77	-	-

Astronomy	Day Length	Rise	Set
Actual Time	8h 42m	7:51 AM	4:33 PM
Civil Twilight		7:16 AM	5:08 PM
Nautical Twilight		6:39 AM	5:45 PM
Astronomical Twilight		6:03 AM	6:21 PM
Moon: waning crescent		3:54 AM	1:15 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:53 AM	46 °F	42 °F	86 %	ESE	17 mph	25 mph	29.39 in	0.1 in	Light Rain
1:34 AM	49 °F	44 °F	83 %	SE	14 mph	0 mph	29.36 in	0.0 in	Light Rain
1:46 AM	53 °F	46 °F	77 %	S	15 mph	30 mph	29.35 in	0.0 in	Light Rain
1:53 AM	53 °F	46 °F	77 %	SSE	15 mph	26 mph	29.34 in	0.0 in	Rain
2:31 AM	53 °F	47 °F	80 %	SSW	16 mph	33 mph	29.35 in	0.1 in	Rain
2:53 AM	53 °F	47 °F	80 %	S	20 mph	32 mph	29.35 in	0.1 in	Light Rain
3:17 AM	53 °F	46 °F	77 %	S	20 mph	35 mph	29.34 in	0.0 in	Light Rain
3:41 AM	53 °F	46 °F	77 %	SSW	21 mph	32 mph	29.33 in	0.1 in	Light Rain / Windy
3:53 AM	52 °F	46 °F	80 %	SSW	28 mph	41 mph	29.35 in	0.1 in	Rain / Windy
4:53 AM	51 °F	45 °F	80 %	SSW	20 mph	39 mph	29.41 in	0.2 in	Rain
5:09 AM	51 °F	44 °F	77 %	SW	15 mph	36 mph	29.43 in	0.0 in	Rain
5:53 AM	50 °F	44 °F	80 %	SSW	14 mph	25 mph	29.48 in	0.1 in	Light Rain
6:53 AM	50 °F	45 °F	83 %	SSW	12 mph	0 mph	29.52 in	0.0 in	Light Rain
7:53 AM	52 °F	44 °F	74 %	SSW	21 mph	31 mph	29.59 in	0.0 in	Mostly Cloudy / Windy
8:53 AM	51 °F	44 °F	77 %	S	10 mph	0 mph	29.66 in	0.0 in	Mostly Cloudy

2024
12/26

Special Weather Statement

by Whitney,Sarah F (BPA) - PGPW-5 at 11:03 AM in Special Weather Statement

Weather and Streamflow Forecasting - Special Weather Statement

11:05am Thursday, December 26, 2024

...Additional rounds of heavy precipitation and gusty winds expected through this weekend...

...Snow accumulation and blowing snow likely at and above pass levels...

An active pattern remains in place and will allow a few additional low pressure systems and atmospheric rivers to move through the Pacific Northwest over the next 5 days. As has been the theme so far this week, heavy precipitation will accompany each of these systems, although the heaviest totals will now likely concentrate over Oregon, southern Idaho, and northern California. Another 4 to 5 inches of liquid precipitation is expected in coastal areas and the Oregon Cascades now through Sunday. An additional 2 to 3 inches of rain is likely in the Willamette Valley and closer to 1 to 2 inches in the Puget Sound region through Sunday. As a result, the risk of landslides along the Cascade passes and coastal mountains will remain through the weekend. Snow levels will rise well above pass levels across southern Oregon and southern Idaho, confining any snow to the highest elevations. However, snow levels will hover near or below pass levels across northern Oregon, Washington, and north central Idaho, where several feet of snow will be possible along the Washington Cascades by Sunday. Several inches of snow will be possible across the north Oregon Cascade passes and a couple of feet at the high elevations. This is particularly noteworthy since significant snow accumulation on top of already fallen heavy, wet snow will increase avalanche risk across the Cascades. Gusty winds will also remain a threat as each of these disturbances moves across the Basin, with the highest risks being Friday and Sunday.

Anyone needing to travel over the next 5 days should continue to exercise caution. Travel could be difficult at times, especially over the mountain passes and at ski resorts this weekend. Be sure to have a vehicle emergency supply kit when traveling, and check road conditions before heading out. Areas of heavy rain and heavy blowing snow could significantly reduce visibility. Please be safe!

PGPW Weather

0 comments | Email a link

2024
12/23

Special Weather Statement

by Whitney,Sarah F (BPA) - PGPW-5 at 10:20 AM in Special Weather Statement

Weather and Streamflow Forecasting - Special Weather Statement

10:20am Monday, December 23, 2024

...Several rounds of heavy precipitation and gusty winds this week through this weekend...

...Most hazards will concentrate along and west of the Cascades...

A series of low pressure systems and atmospheric rivers are still on track to impact the Pacific Northwest this week and upcoming weekend. Heavy precipitation will accompany each system, where 5+ inches of liquid precipitation is expected in coastal areas and the Cascades through Friday. Up to 3 inches of rain is likely in the Willamette Valley and Puget Sound region through Friday. As a result, the risk of landslides along the Cascade passes and coastal mountains will increase as the week progresses. Snow levels will also fluctuate in the mountains near pass levels, with heavy wet snow accumulation at the highest elevations and mostly liquid precipitation at the low to mid elevations. Additionally, gusty winds are likely as each of these disturbances moves across the Basin, with the highest risks being Wednesday night and Thursday night.

Another atmospheric river will take aim at the region Friday and Saturday, this time likely targeting Oregon and Idaho. Another 1 to 3 inches of liquid precipitation will be possible through Saturday along and west of the Oregon Cascades. However, snow levels will lower to pass levels with this system, increasing heavy snow risk for travelers this upcoming weekend along with the threat of another round of gusty winds.

Anyone needing to travel over the next 7 days should continue to exercise caution. Travel could be difficult at times, especially over the mountain passes this weekend. Be sure to have a vehicle emergency supply kit when traveling, and check road conditions before heading out. Areas of heavy rain and high elevation blowing snow could significantly reduce visibility. Be safe and enjoy the holidays safely!

PGPW Weather





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/25/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-ALVY No. 1 / 230kV	**52/3 + 415 ft. AHOL Left**

Date Outage Occured	Outage ID	Duration of Outage
2/24/2025	**229043**	**4 hours, 20 minutes**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	**19"**	**118'**

LOCATION OF TREE

Distance from Centerline **74'** Manage ROW Width **125' (62.5' from center line)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground		%	
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Uprooted due to strong winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 21 versions of this product stored.

Newest1234567891011121314151617181920ldest Click for access to archived data.

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CDUS46 KPQR 251142
CLIEUG

CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
342 AM PST TUE FEB 25 2025

.....................................

...THE EUGENE OR CLIMATE SUMMARY FOR FEBRUARY 24 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2025


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         60   1234 PM  67    1992  53      7        56
  MINIMUM         44    232 AM  22    2022  35      9        35
  AVERAGE         52                        44      8        46

PRECIPITATION (IN)
  YESTERDAY        0.55          1.92 2019   0.16   0.39     0.00
  MONTH TO DATE    4.73                      4.00   0.73     3.17
  SINCE OCT 1     27.94                     26.41   1.53    25.37
  SINCE JAN 1      9.08                     10.05  -0.97    12.80

SNOWFALL (IN)

  YESTERDAY        0.0
  MONTH TO DATE    1.0
  SINCE JUL 1      1.0

DEGREE DAYS
 HEATING
  YESTERDAY       13                        21     -8       19
  MONTH TO DATE  550                       527     23      442
  SINCE DEC 1   2020                      2017      3     1689
  SINCE JUL 1   2949                      3114   -165     2648

 COOLING
```

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE DEC 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

HIGHEST WIND SPEED	37	HIGHEST WIND DIRECTION	S (200)
HIGHEST GUST SPEED	51	HIGHEST GUST DIRECTION	S (200)
AVERAGE WIND SPEED	13.0		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 0.8

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

HEAVY RAIN

RAIN

LIGHT RAIN

FOG

FOG W/VISIBILITY <= 1/4 MILE

HAZE

RELATIVE HUMIDITY (PERCENT)

HIGHEST	97	600 AM
LOWEST	69	300 PM
AVERAGE	83	

.....

THE EUGENE OR CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	53	68	1968
MINIMUM TEMPERATURE (F)	35	20	2023

SUNRISE AND SUNSET

FEBRUARY 25 2025.....SUNRISE 656 AM PST SUNSET 556 PM PST

FEBRUARY 26 2025.....SUNRISE 654 AM PST SUNSET 558 PM PST

\- INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.









BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/23/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM / 115kV	**21/2**

Date Outage Occured	Outage ID	Duration of Outage
2/23/2025	**229086**	**109**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Southerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**17"**	**90'**

LOCATION OF TREE

Distance from Centerline **60'** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **3** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☑	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☑	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Doug Fir that had a codom trunk failed approximately 8' from the ground due to week wood attachment and high winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

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Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Cli k f a ess f a ived data.

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CDUS46 KSEW 230926
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SUN FEB 23 2025

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 22 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         55    116 PM  64    1973  50      5        58
  MINIMUM         47    705 AM  17    2018  32      15       33
  AVERAGE         51                        41      10       46

PRECIPITATION (IN)
  YESTERDAY       0.91          1.31 2013   0.16    0.75     0.00
  MONTH TO DATE   3.38                      4.04   -0.66     2.89
  SINCE OCT 1    26.80                     32.97   -6.17    32.07
  SINCE JAN 1     5.90                     11.84   -5.94    11.71

DEGREE DAYS
 HEATING
  YESTERDAY       14                        24     -10       19
  MONTH TO DATE  613                       541      72      478
  SINCE DEC 1   2161                      2139      22     1799
  SINCE JUL 1   3348                      3570    -222     2999

 COOLING
  YESTERDAY       0                         0       0        0
  MONTH TO DATE   0                         0       0        0
  SINCE DEC 1     0                         0       0        0
  SINCE JAN 1     0                         0       0        0
.....

WIND (MPH)
  RESULTANT WIND SPEED  10   RESULTANT WIND DIRECTION  SW (210)
  HIGHEST WIND SPEED    26   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    47   HIGHEST GUST DIRECTION     S (170)
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AVERAGE WIND SPEED 10.4

SKY COVER
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
RAIN
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)
HIGHEST 97 900 PM
LOWEST 69 100 PM
AVERAGE 83

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	50	64	1995
MINIMUM TEMPERATURE (F)	32	14	2022

SUNRISE AND SUNSET
FEBRUARY 23 2025.....SUNRISE 702 AM PST SUNSET 549 PM PST
FEBRUARY 24 2025.....SUNRISE 700 AM PST SUNSET 550 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	Olympia	2/23/2025

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM-1 / 115kV	33/5

Date Outage Occured	Outage ID	Duration of Outage
2/23/2025	229086	109

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* Northerly	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ Earthquakes ☐ Hurricanes ☐ Flood ☐ Fire ☐ Landslides ☑ Major Storm ☐ Tornados ☐ Ice Storms ☐ Other:

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	12"	100'

LOCATION OF TREE

Distance from Centerline 72' Manage ROW Width 100'

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground 7 %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☑	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree does not appear to have any root disease as indicated by the pictures, no failed buttress roots failed and not a large presents of them. Tree appears healthy except the smaller root wade.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

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Storm Event Database (NCEI)

Products viewable from this page have been issued within the Last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Cli k f a ess f a ived data.

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CDUS46 KSEW 230926
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SUN FEB 23 2025

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 22 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         55    116 PM  64    1973  50      5        58
  MINIMUM         47    705 AM  17    2018  32      15       33
  AVERAGE         51                        41      10       46

PRECIPITATION (IN)
  YESTERDAY        0.91          1.31 2013   0.16   0.75     0.00
  MONTH TO DATE    3.38                      4.04  -0.66     2.89
  SINCE OCT 1     26.80                     32.97  -6.17    32.07
  SINCE JAN 1      5.90                     11.84  -5.94    11.71

DEGREE DAYS
 HEATING
  YESTERDAY       14                        24     -10       19
  MONTH TO DATE  613                       541      72      478
  SINCE DEC 1   2161                      2139      22     1799
  SINCE JUL 1   3348                      3570    -222     2999

 COOLING
  YESTERDAY        0                         0       0        0
  MONTH TO DATE    0                         0       0        0
  SINCE DEC 1      0                         0       0        0
  SINCE JAN 1      0                         0       0        0
.....................................................................

WIND (MPH)
  RESULTANT WIND SPEED  10   RESULTANT WIND DIRECTION  SW (210)
  HIGHEST WIND SPEED    26   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    47   HIGHEST GUST DIRECTION     S (170)
```

AVERAGE WIND SPEED 10.4

SKY COVER
AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
RAIN
LIGHT RAIN
FOG

RELATIVE HUMIDITY (PERCENT)
HIGHEST 97 900 PM
LOWEST 69 100 PM
AVERAGE 83

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	50	64	1995
MINIMUM TEMPERATURE (F)	32	14	2022

SUNRISE AND SUNSET
FEBRUARY 23 2025.....SUNRISE 702 AM PST SUNSET 549 PM PST
FEBRUARY 24 2025.....SUNRISE 700 AM PST SUNSET 550 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/23/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
CHEH-RAYM-1 / 115kV	**36/1**

Date Outage Occured	Outage ID	Duration of Outage
2/23/2025	**229086**	**109**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Northerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**21"**	**110'**

LOCATION OF TREE

Distance from Centerline **74'** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **0** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☑	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Two trees feel next to each other, one hit the conductors and the other fell parallel to the conductors. Both trees had significant root rot and this was the cause of the failure of these two trees.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

1. Choose a Product

- (•) Daily Climate Report (CLI)
- ( ) Preliminary Monthly Climate Data (CF6)
- ( ) Record Event Report (RER)
- ( ) Monthly Weather Summary (CLM)
- ( ) Routine Temperature/Precip (RTP)

2. Choose a Location

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Storm Event Database (NCEI)

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There are 14 versions of this product stored.

Newest | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Oldest | Cli k f a ess f a ived data.

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CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
126 AM PST SUN FEB 23 2025

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...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 22 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         55    116 PM  64    1973  50      5        58
  MINIMUM         47    705 AM  17    2018  32      15       33
  AVERAGE         51                        41      10       46

PRECIPITATION (IN)
  YESTERDAY        0.91          1.31 2013   0.16   0.75     0.00
  MONTH TO DATE    3.38                      4.04  -0.66     2.89
  SINCE OCT 1     26.80                     32.97  -6.17    32.07
  SINCE JAN 1      5.90                     11.84  -5.94    11.71

DEGREE DAYS
 HEATING
  YESTERDAY       14                        24     -10       19
  MONTH TO DATE  613                       541      72      478
  SINCE DEC 1   2161                      2139      22     1799
  SINCE JUL 1   3348                      3570    -222     2999

 COOLING
  YESTERDAY        0                         0       0        0
  MONTH TO DATE    0                         0       0        0
  SINCE DEC 1      0                         0       0        0
  SINCE JAN 1      0                         0       0        0
.....

WIND (MPH)
  RESULTANT WIND SPEED  10   RESULTANT WIND DIRECTION  SW (210)
  HIGHEST WIND SPEED    26   HIGHEST WIND DIRECTION     S (190)
  HIGHEST GUST SPEED    47   HIGHEST GUST DIRECTION     S (170)
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  AVERAGE WIND SPEED    10.4

SKY COVER
  AVERAGE SKY COVER 1.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  RAIN
  LIGHT RAIN
  FOG

RELATIVE HUMIDITY (PERCENT)
 HIGHEST     97           900 PM
 LOWEST      69           100 PM
 AVERAGE     83

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY
                          NORMAL     RECORD     YEAR
 MAXIMUM TEMPERATURE (F)    50         64       1995
 MINIMUM TEMPERATURE (F)    32         14       2022

SUNRISE AND SUNSET
FEBRUARY 23 2025.....SUNRISE   702 AM PST   SUNSET   549 PM PST
FEBRUARY 24 2025.....SUNRISE   700 AM PST   SUNSET   550 PM PST

-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.


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BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Carlos Mora	**Eugene**	**2/25/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Santiam-Toledo No. 1 / 230kV	**55/1 + 415 ft. AHOL Left**

Date Outage Occurred	Outage ID	Duration of Outage
2/24/2025	**229065/229049**	**4.5 hours**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Multiple directions**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Fir	**12"**	**110'**

LOCATION OF TREE

Distance from Centerline **70'** Manage ROW Width **125' (62.5' from center line)**

☐	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **2**	%		
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☑	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☑	Healthy

REASON FOR FALL OR BREAK

☐	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☐ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Uproot due to strong winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Products viewable from this page have been issued within the last 7 days

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There are 21 versions of this product stored.

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CLIMATE REPORT
NATIONAL WEATHER SERVICE PORTLAND OREGON
626 PM PST MON FEB 24 2025

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...THE EUGENE OR CLIMATE SUMMARY FOR FEBRUARY 24 2025...
VALID TODAY AS OF 0600 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1892 TO 2025


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.....................................................................
TEMPERATURE (F)
 TODAY
  MAXIMUM         60   1234 PM  67    1992  53      7        56
  MINIMUM         44    232 AM  22    2022  35      9        35
  AVERAGE         52                        44      8        46

PRECIPITATION (IN)
  TODAY            0.48          1.92 2019   0.16   0.32     0.00
  MONTH TO DATE    4.66                      4.00   0.66     3.17
  SINCE OCT 1     27.87                     26.41   1.46    25.37
  SINCE JAN 1      9.01                     10.05  -1.04    12.80

SNOWFALL (IN)

  TODAY            0.0
  MONTH TO DATE    1.0
  SINCE JUL 1      1.0

DEGREE DAYS
 HEATING
  TODAY           13                        21     -8       19
  MONTH TO DATE  550                       527     23      442
  SINCE DEC 1   2020                      2017      3     1689
  SINCE JUL 1   2949                      3114   -165     2648
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 COOLING
  TODAY            0                         0      0        0
  MONTH TO DATE    0                         0      0        0
  SINCE DEC 1      0                         0      0        0
  SINCE JAN 1      0                         0      0        0
.....................................................................


WIND (MPH)
  HIGHEST WIND SPEED    37   HIGHEST WIND DIRECTION     S (200)
  HIGHEST GUST SPEED    51   HIGHEST GUST DIRECTION     S (200)
  AVERAGE WIND SPEED     8.7


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.8


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED TODAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG
  FOG W/VISIBILITY <= 1/4 MILE
  HAZE


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    97           600 AM
 LOWEST     69           300 PM
 AVERAGE    83

.........................................................


THE EUGENE OR CLIMATE NORMALS FOR TOMORROW
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   53        68      1968
 MINIMUM TEMPERATURE (F)   35        20      2023


SUNRISE AND SUNSET
FEBRUARY 24 2025......SUNRISE   657 AM PST   SUNSET   555 PM PST
FEBRUARY 25 2025......SUNRISE   656 AM PST   SUNSET   556 PM PST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```









BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/11/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO-1 / 115kV	**35/1**

Date Outage Occurred	Outage ID	Duration of Outage
2/3/2024	**228907**	**938**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☑	None to Moderate Wind	☑	Snow
☐	Strong Wind *(Indicate direction)* **Southerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**10"**	**60'**

LOCATION OF TREE

Distance from Centerline **75'** Manage ROW Width **100'**

☑	Uphill	☐	Left Side		
☐	Downhill	% Slope of ground **45** %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☑	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☑	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree had root rot and failed due to structural weakness of the roots from snow loading and winds. Tree was on FS property and by the pictures you can see the presents of root rot in area indicated by trees showing signs of thinning and yellowing needles and heavy cone crops.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Climatological Report (Daily)
Issued by NWS

546
CDUS46 KSEW 020928
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
128 AM PST SUN FEB 02 2025

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR FEBRUARY 1 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	42	1238 PM	67	1962	48	-6	60
MINIMUM	31	1059 PM	-1	1950	33	-2	43
AVERAGE	37				40	-3	52

PRECIPITATION (IN)

YESTERDAY	0.19	1.41	2000	0.20	-0.01	T
MONTH TO DATE	0.19			0.20	-0.01	T
SINCE OCT 1	23.61			29.13	-5.52	29.18
SINCE JAN 1	2.71			8.00	-5.29	8.82

DEGREE DAYS

HEATING

YESTERDAY	28	25	3	13
MONTH TO DATE	28	25	3	13
SINCE DEC 1	1576	1623	-47	1334
SINCE JUL 1	2763	3054	-291	2534

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE DEC 1	0	0	0	0
SINCE JAN 1	0	0	0	0

.....

WIND (MPH)

RESULTANT WIND SPEED 7 RESULTANT WIND DIRECTION S (200)
HIGHEST WIND SPEED 16 HIGHEST WIND DIRECTION S (200)
HIGHEST GUST SPEED 28 HIGHEST GUST DIRECTION S (180)
AVERAGE WIND SPEED 7.5

SKY COVER

AVERAGE SKY COVER 0.9

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

RAIN
LIGHT RAIN
LIGHT SNOW
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	100	1100 PM
LOWEST	82	1100 AM
AVERAGE	91	

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR

MAXIMUM TEMPERATURE (F)	48	70	1962
MINIMUM TEMPERATURE (F)	33	-1	1972

SUNRISE AND SUNSET
FEBRUARY 2 2025.....SUNRISE 734 AM PST SUNSET 517 PM PST
FEBRUARY 3 2025.....SUNRISE 733 AM PST SUNSET 518 PM PST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.











BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Olympia**	**2/24/2025**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
POAN-SAPO / 115kV	**26/3**

Date Outage Occurred	Outage ID	Duration of Outage
2/19/2025	**229014**	**329**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☑	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* **Southerly**	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☑ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Hemlock	**25" & 33"**	**120'**

LOCATION OF TREE

Distance from Centerline **100' & 80'** Manage ROW Width **100'**

☑	Uphill	☑	Left Side		
☐	Downhill	% Slope of ground **5** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☑	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☐	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☑	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Trees failed due to root disease and high winds, the 33" tree fell and hit the conductors and then another tree fell parallel to the conductors and over the 33" tree, then the 25" tree fell over all of them and onto the conductors also. These failures were not caused by each other.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Local forecast by
"City, St" or ZIP code

Location Help

Warm Temperatures Over the Western and Central U.S.

Warm to hot spring-like temperatures will expand in coverage over the western and central U.S. this week. Numerous record tying or breaking highs will be possible from Texas west through the Desert Southwest into the West Coast. Read More >

Seattle/Tacoma, WA

Weather Forecast Office

Climate

Weather.gov > Seattle/Tacoma, WA > Climate

NOWData

Observed Weather

Climate Prediction and Variability

Local Data/Records

Climate Resources

1. Choose a Product

Daily Climate Report (CLI)

Preliminary Monthly Climate Data (CF6)

Record Event Report (RER)

Monthly Weather Summary (CLM)

Routine Temperature/Precip (RTP)

Storm Event Database (NCEI)

2. Choose a Location

Seattle-Tacoma, WAOlympia, WAWFO Seattle, WAQuillayute Airport, WABellingham, WAHoquiam, WA

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO).

There are 14 versions of this product stored.
Newest123456789101112Oldest Click for access to archived data.

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CDUS46 KSEW 190119
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
619 PM PDT TUE MAR 18 2025

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR MARCH 18 2025...
VALID TODAY AS OF 0500 PM LOCAL TIME.

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM OBSERVED TIME RECORD YEAR NORMAL DEPARTURE LAST
VALUE (LST) VALUE VALUE FROM YEAR

		NORMAL			
TEMPERATURE (F)					
TODAY					
MAXIMUM	51	1254 PM	74 2019	54 -3	70
MINIMUM	27	546 AM	19 1965	35 -8	34
AVERAGE	39		44	-5	52
PRECIPITATION (IN)					
TODAY	T		1.90 1997	0.18 -0.18	0.00
MONTH TO DATE	2.37		3.45	-1.08	2.28
SINCE OCT 1	30.50		37.47	-6.97	37.56
SINCE JAN 1	9.60		16.34	-6.74	17.20
DEGREE DAYS					
HEATING					
TODAY	26		21	5	13
MONTH TO DATE	397		392	5	374
SINCE MAR 1	397		392	5	374
SINCE JUL 1	3835		4101	-266	3534
COOLING					
TODAY	0		0	0	0
MONTH TO DATE	0		0	0	0
SINCE MAR 1	0		0	0	0
SINCE JAN 1	0		0	0	0

WIND (MPH)

RESULTANT WIND SPEED 5 RESULTANT WIND DIRECTION SW (210)
HIGHEST WIND SPEED 15 HIGHEST WIND DIRECTION SW (230)
HIGHEST GUST SPEED 21 HIGHEST GUST DIRECTION SW (230)
AVERAGE WIND SPEED 5.9

SKY COVER

AVERAGE SKY COVER 0.5

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED TODAY.

LIGHT RAIN

RELATIVE HUMIDITY (PERCENT)
HIGHEST 96 500 AM
LOWEST 52 100 PM
AVERAGE 74

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TOMORROW

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	54	78	2019
MINIMUM TEMPERATURE (F)	35	18	1965

SUNRISE AND SUNSET
MARCH 18 2025.....SUNRISE 718 AM PDT SUNSET 722 PM PDT
MARCH 19 2025.....SUNRISE 716 AM PDT SUNSET 724 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$



US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Seattle/Tacoma, WA
7600 Sand Point Way NE
Seattle, WA 98115-6349

BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Jason Hunt	**Covington**	**4/15/2024**

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
STAC-SOWS-1 / 230kV	**1/3**

Date Outage Occurred	Outage ID	Duration of Outage
4/10/2024	**229510**	**6hrs**

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)*	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Doug Fir	**30"**	**120'**

LOCATION OF TREE

Distance from Centerline **89'** Manage ROW Width **100'**

☐	Uphill	☑	Left Side		
☑	Downhill	% Slope of ground **8** %			
☐	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☑	East
☐	Southeast	☐	South	☐	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☐	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☐	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☑	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☑	Yellowing Foliage	☑	Thinning Foliage	☐	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☐	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☑	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

This large 30" DBH failed to Root disease and gusty winds.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

Local forecast by
"City, St" or ZIP code

Location Help

Snow in the Northern Rockies and Lower Great Lakes; Critical Fire Weather in the Southwest and Southern Plains

Moderate to heavy mountain snow and strong winds are expected across the Northern Rockies. Lake effect snow will continue downwind of the Lower Great Lakes. Gusty winds and dry conditions will result in critical fire weather conditions in the Southwest and Southern Plains Wednesday through Friday. Extremely critical fire weather conditions are expected Thursday in portions of New Mexico. Read More >

Seattle/Tacoma, WA

Weather Forecast Office

Climate

Weather.gov > Seattle/Tacoma, WA > Climate

NOWData

Observed Weather

Climate Prediction and Variability

Local Data/Records

Climate Resources

1 Choose a Product

Daily Climate Report (CLI)

Preliminary Monthly Climate Data (CF6)

Record Event Report (RER)

Monthly Weather Summary (CLM)

Routine Temperature/Precip (RTP)

2 Choose a Location

Seattle-Tacoma, WAOlympia, WAWFO Seattle, WAQuillayute Airport, WABellingham, WAHoquiam, WA

Storm Event Database (NCEI)

Products viewable from this page have been issued within the last 7 days

This data is preliminary, for access to the complete period of record of finalized data for this site and more, visit NOAA's National Centers for Environmental Information (NCEI) Climate Data Online (CDO)

There are 14 versions of this product stored.
Newest123456789101112Oldest Click for access to archived data.

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CDUS46 KSEW 100840
CLIOLM

CLIMATE REPORT
NATIONAL WEATHER SERVICE SEATTLE
140 AM PDT THU APR 10 2025

.....

...THE OLYMPIA WA AIRPORT CLIMATE SUMMARY FOR APRIL 9 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 1941 TO 2025

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	62	309 PM	76	1949	57	5	59
MINIMUM	34	446 AM	26	1982	37	-3	36
AVERAGE	48				47	1	48
PRECIPITATION (IN)							
YESTERDAY	0.00		1.44	1970	0.13	-0.13	0.24
MONTH TO DATE	2.18				1.28	0.90	1.04
SINCE OCT 1	36.29				40.98	-4.69	40.41
SINCE JAN 1	15.39				19.85	-4.46	20.05
DEGREE DAYS							
HEATING							
YESTERDAY	17				18	-1	17
MONTH TO DATE	155				166	-11	156
SINCE MAR 1	764				814	-50	736
SINCE JUL 1	4202				4523	-321	3896
COOLING							
YESTERDAY	0				0	0	0
MONTH TO DATE	0				0	0	0
SINCE MAR 1	0				0	0	0
SINCE JAN 1	0				0	0	0

WIND (MPH)

RESULTANT WIND SPEED 1 RESULTANT WIND DIRECTION NE (40)
HIGHEST WIND SPEED 10 HIGHEST WIND DIRECTION N (10)
HIGHEST GUST SPEED 14 HIGHEST GUST DIRECTION NE (60)
AVERAGE WIND SPEED 2.0

SKY COVER

AVERAGE SKY COVER 0.5

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
FOG
FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)
HIGHEST 100 1200 AM
LOWEST 46 300 PM
AVERAGE 73

.....

THE OLYMPIA WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	58	77	1988
MINIMUM TEMPERATURE (F)	37	26	1972

SUNRISE AND SUNSET
APRIL 10 2025.....SUNRISE 632 AM PDT SUNSET 754 PM PDT
APRIL 11 2025.....SUNRISE 631 AM PDT SUNSET 755 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

$$

USA.gov

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Seattle/Tacoma, WA
7600 Sand Point Way NE
Seattle, WA 98115-6349





BPA F 4300.04e
(09-2021)

U.S. DEPARTMENT OF ENERGY-BONNEVILLE POWER ADMINISTRATION *(BPA)*

TREE-CAUSED OUTAGE REPORT

Name of Inspector	District	Date of Inspection
Craig Fackrell	Spokane	4/18/2025

TRANSMISSION LINE DATA / LINE VOLTAGE

Name *(Operated as)*	Location of Outage *(Structures)*
Spirit Tap to Colville-Boundary No 1 (115kV)	1/4 (240' AHOL)

Date Outage Occurred	Outage ID	Duration of Outage
4/16/2025	229569	1049 - 1158 (69 minutes)

WEATHER AT THE TIME OF OCCURRENCE

☐	Fair and Calm	☐	Heavy Rain
☐	None to Moderate Wind	☐	Snow
☑	Strong Wind *(Indicate direction)* NE to SW	☐	Ice
☐	None to Moderate Rain	☐	Not Known

TYPE OF NATURAL DISASTER *(Circumstances that are beyond the control of an applicable Transmission Owner or applicable Generator Owner include but are not limited to Natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the To or Go or an applicable regulatory body.)*

TYPE OF DISASTER:

☐ **Earthquakes** ☐ **Hurricanes** ☐ **Flood** ☐ **Fire** ☐ **Landslides** ☐ **Major Storm** ☐ **Tornados** ☐ **Ice Storms** ☐ **Other:**

TREE INSPECTION

Species	Approximate DBH	Approximate Height
Douglas fir	14"	72'

LOCATION OF TREE

Distance from Centerline 65' Manage ROW Width 100' (50' from CL)

☐	Uphill	☐	Left Side		
☐	Downhill	%Slope of ground 0 %			
☑	Right Side	On or Off ROW?	☐ On	☑	Off

TOP OF FALLEN TREE POINTED IN WHAT DIRECTION? *(Check one)*

☐	North	☐	Northeast	☐	East
☐	Southeast	☐	South	☑	Southwest
☐	West	☐	Northwest		

VISIBLE SIGNS OF DEFECT

☐	Dead Top	☐	Visible Conks	☐	Root Damage
☑	Snag	☐	Basal Scars	☐	Burn Scars
☐	Forks	☐	Multiple Stems	☐	Fire Damage
☐	Frost Damage	☐	Sun Scald	☑	Undermined Roots
☐	Bear Damage	☐	Basal Resinosis	☐	None Obvious

GENERAL CONDITION OF TREE BEFORE FAILURE

☐	Yellowing Foliage	☑	Thinning Foliage	☑	Interior Decay
☐	Shallow Roots	☐	Distressed Cone Crop	☐	Healthy

REASON FOR FALL OR BREAK

☑	Root Rot	☐	Heart Rot	☑	Dead/Dying Tree
☐	Ice or Snow Load	☐	Old Break	☐	Erosion/Cut Bank
☐	Human Caused *(cut)*	☐	Logging Fringe	☐	High Wind
☐	Standing Water	☐	Saturated Soils	☐	Broken Branch
☐	Broken Stem	☐	Logging Activities	☐	None Obvious

If human caused, did you talk with anyone on site? If yes, what comments were made? *(Please type comments below)* ☐ YES ☑ NO

GENERAL REMARKS *(Narrative, site description (i.e., N, NW, SE, etc.) the photo(s), and provide a copy of Natural Weather Service Report via: https://w2.weather.gov/climate/ if applicable.)*

Tree was already dead and broke at the base during high winds. It fell on the lines, caught fire and fell to the ground, igniting a ground fire that grew to almost 1/2 acre in size. The fire was contained to the ROW and burned only grass. Fire crew was on scene when TLM arrived.

Please submit/e-mail completed form with pictures to vegmgmt@bpa.gov and include your Supervisor and TFBV Manager.

File code: MA-12-11 Retention: Right-of-Way Maintenance-retain until superseded plus 3 years, and then dispose.

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CDUS46 KOTX 160821
CLIDEW

CLIMATE REPORT
NATIONAL WEATHER SERVICE SPOKANE WA
121 AM PDT WED APR 16 2025

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...THE DEER_PARK WA AIRPORT CLIMATE SUMMARY FOR APRIL 15 2025...

CLIMATE NORMAL PERIOD 1991 TO 2020
CLIMATE RECORD PERIOD 9999 TO 9999

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	70	247 PM	MM	MM	57	13	64
MINIMUM	28	523 AM	MM	MM	32	-4	42
AVERAGE	49				44	5	53
PRECIPITATION (IN)							
YESTERDAY	0.00		MM	MM	0.06	-0.06	0.00
MONTH TO DATE	1.08				1.06	0.02	0.25
SINCE OCT 1	18.55				15.68	2.87	12.75
SINCE JAN 1	7.87				7.85	0.02	5.74
SNOWFALL (IN)							
YESTERDAY	MM						
DEGREE DAYS							
HEATING							
YESTERDAY	16				21	-5	12
MONTH TO DATE	305				333	-28	274
SINCE MAR 1	1025				1184	-159	1081
SINCE JUL 1	5697				6431	-734	5804
COOLING							
YESTERDAY	0				0	0	0

MONTH TO DATE	0	0	0	0
SINCE MAR 1	0	0	0	0
SINCE JAN 1	0	0	0	0

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WIND (MPH)
HIGHEST WIND SPEED 16 HIGHEST WIND DIRECTION SW (230)
HIGHEST GUST SPEED 21 HIGHEST GUST DIRECTION SW (210)
AVERAGE WIND SPEED 6.1

SKY COVER
POSSIBLE SUNSHINE MM
AVERAGE SKY COVER 0.0

WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)
HIGHEST 92 500 AM
LOWEST 27 300 PM
AVERAGE 60

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THE DEER_PARK WA AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	57	MM	MM
MINIMUM TEMPERATURE (F)	32	MM	MM

SUNRISE AND SUNSET
APRIL 16 2025.....SUNRISE 558 AM PDT SUNSET 742 PM PDT
APRIL 17 2025.....SUNRISE 556 AM PDT SUNSET 743 PM PDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.

M INDICATES DATA IS MISSING.
INDICATES TRACE AMOUNT.

Outage Information

Transmission	Outage Number (ID)	Outage Date (dd-mmm-yyyy)	Equipment Affected	Description	Type	Cause Code	Kv	Operating Org	Crew Assigned	Outage Duration (hours:min)	Length in Miles	Start Date/Time	End Date/Time	Duration in Minutes	Source Type	Cause	Responsible System	Key
285	229569	30-Sep-2025		Colville-Boundary No 1 115kV line	L	0	115.0	BEL	SPK	3	43.06	4/16/2025 10:49	4/16/2025 12:04	75	Auto	Unknown	BPA	
684	229569	30-Sep-2025		Box Canyon tap to Colville-Boundary No 1 115kV line	T		115.0	BEL	SPK	0	2.39	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	
712	229569	30-Sep-2025		Metaline Falls tap to Colville-Boundary No 1 115kV line	T		115.0	BEL	SPK	0	1.20	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	
1308	229569	30-Sep-2025		Metaline Falls-Boundary section of Colvile-Boundary No 1 115kV line	S		115.0	BEL	SPK	0	5.91	4/16/2025 10:49	4/16/2025 12:04	75	Auto	Unknown	BPA	
1309	229569	30-Sep-2025		Spirit-Box Canyon section of Colville-Boundary No 1 115kV line	S		115.0	BEL	SPK	0	11.98	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	
1366	229569	30-Sep-2025		Box Canyon-Metaline Falls section of Colville-Boundary No 1 115kV line	S		115.0	BEL	SPK	0	4.75	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	
1367	229569	30-Sep-2025		Colville-Spirit section of Colville-Boundary No 1 115kV line	S		115.0	BEL	SPK	0	17.42	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	
842	229569	30-Sep-2025		Spirit tap to Colville-Boundary No 1 115kV line	T		115.0	BEL	SPK	0	5.23	4/16/2025 10:49	4/16/2025 11:58	69	Auto	Unknown	BPA	

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
OPS	BOUN	Boundary Substation			
OPS	COLV	Colville Substation			
SPC	BOUN	Boundary Substation			
SPC	COLV	Colville Substation			









District	Title	Name	Date of Outage	Mile	Structure
COVINGTON	COVI_BTFD_1_2021_11_8	TCO_OARSID_220670_m9_s4.pdf	11/8/2021	9	4
COVINGTON	COVI_CRET_1	COVINGTON-CRESTON 1 (5-5) 12-17-2012.pdf	12/17/2012	5	5
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m14_s4.pdf	11/19/2024	14	4
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m15_s5.pdf	11/19/2024	15	5
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m23_s1.pdf	11/19/2024	23	1
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228279_m3_s4.pdf	11/19/2024	3	4
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228279_m7_s2.pdf	11/19/2024	7	2
COVINGTON	ECOL_MONE_1	EchoLake-Monroe_1 (12-2) 12-9-2015 Tree outage.pdf	12/9/2015	12	2
COVINGTON	MTSI_TANN_1_2024_11_19	TCO_OARSID_228295_m2_s5.pdf	11/19/2024	2	5
COVINGTON	OLYM_GCOU_1	Olympia-Grand Coulee-1 (66-1) 1-23-2020.pdf	1/23/2020	66	1
COVINGTON	OLYM_GCOU_1_2021_12_30	TCO_OARSID_221244_m67_s3.pdf	12/30/2021	67	3
COVINGTON	OLYM_GCOU_1_2022_12_22	TCO_OARSID_223391_m67_s3.pdf	12/22/2022	67	3
COVINGTON	RAVE_PAUL_1	RAVE-PAUL (6-4) 7-29-2019.pdf	7/29/2019	6	4
COVINGTON	RAVE_PAUL_1_2023_01_05	TCO_OARSID_223548_m14_s2.pdf	1/5/2023	14	2
COVINGTON	RKYR_MPLV_1	ROCKY REACH-MAPLE VALLEY-1 (119-1) 12-18-2010.pdf	12/18/2010	119	1
COVINGTON	RKYR_MPLV_1	RR-MPL1-119-1 12-20-2010 Photo.pdf	12/20/2010	119	1
COVINGTON	RKYR_MPLV_1	Rocky Reach-MV 120-5 mile - 2006.pdf	12/14/2006	120	5
COVINGTON	RKYR_MPLV_1	RR-MPLV outage - 2010.pdf	12/18/2010	199	1
COVINGTON	ROCK_SERV	Rockdale 19KV (1-1 to 1-2) 12-17-2015.pdf	12/17/2015	1	1/1 to 1/2
COVINGTON	SAMH_MPLV_1_2022_12_23	TCO_OARSID_223458_m9_s2.pdf	12/23/2022	9	2
COVINGTON	SAMH_MPLV_1_2024_02_03	TCO_OARSID_225714_m13_s2.pdf	2/3/2024	13	2
COVINGTON	SAMH_MPLV_1_2024_11_19	TCO_OARSID_228282_m13_s4.pdf	11/19/2024	13	4
COVINGTON	STAC_SOWS_1_2025_04_10	TCO_OARSID_229510_m1_s3.pdf	4/10/2025	1	3
COVINGTON	STCR_STAC_1_2021_9_17	TCO_OARSID_219908_m16_s1.pdf	9/17/2021	16	1
EUGENE	LOPH_LKPT_1_2024_12_26	TCO_OARSID_228728_m0_s1.pdf	12/26/2024	0	1
EUGENE	ADDY_CUSI_1_2021_01_12	TCO_OARSID_217330_m23_s2.pdf	1/12/2021	23	2
EUGENE	ADDY_CUSI_1_2025_01_05	TCO_OARSID_228784_m15_s3.pdf	1/5/2025	15	3
EUGENE	ALFL_SDCK_1_2021_11_15	TCO_OARSID_220756_m4_s3.pdf	11/15/2021	4	3
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (16-7) 03-12-2012.pdf	3/12/2012	16	7
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (17-7) 12-20-2012.pdf	12/20/2012	17	7
EUGENE	ALVY_FAVW_1	Alvey-Fairview-1 (17-5 to 58-1) 2-25-19 Snow storm.pdf	2/25/2019	17/5 to	58/1
EUGENE	ALVY_FAVW_1	ALVY-FAVW (18-6) 2-18-2014.pdf	2/18/2014	18	6
EUGENE	ALVY_FAVW_1	ALVY-FAVW (29-2) Outage Report 1-16-16.pdf	1/16/2016	29	2
EUGENE	ALVY_FAVW_1	Alvey-Fairview A-R (64-1) 12-17-2012.pdf	12/17/2012	64	1
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (64-1) 12-17-2012.pdf	12/17/2012	64	1
EUGENE	ALVY_FAVW_1_2024_01_13	TCO_OARSID_225480_m21_s4.pdf	1/13/2024	21	4
EUGENE	ALVY_FAVW_1_2024_01_16	TCO_OARSID_225569_m12_s5.pdf	1/16/2024	12	5
EUGENE	ALVY_LANE_1	Alvy-Lane 0-1 TCO - 2019.pdf	1/13/2019	0	1
EUGENE	BAND_ROGE_1_2021_7_23	TCO_OARSID_219319_m34_s1.pdf	7/23/2021	34	1
EUGENE	BLRT_CUHO_1_2021_01_13	TCO_OARSID_217274_m1_s2.pdf	1/13/2021	1	2
EUGENE	Cougar-Holden Creek-1	Cougar-Holden Creek-1 (1-6 to 30-3) 2-25-19 Snow storm.pdf	2/25/2019	1/6 to	30/3
EUGENE	Cougar-Holden Creek-1	Cougar-Holden Creek-1 (18-8) 2-4-2019.pdf	2/4/2019	18	8
EUGENE	CUGR_HOLD_1_2021_02_15	TCO_OARSID_217635_m5_s4.pdf	2/15/2021	5	4
EUGENE	CUGR_HOLD_1_2024_01_08	TCO_OARSID_225367_m2_s4.pdf	1/8/2024	2	4
EUGENE	CUGR_HOLD_1_2024_01_09	TCO_OARSID_225371_m2_s1.pdf	1/9/2024	2	1
EUGENE	CUGR_HOLD_1_2024_01_09	TCO_OARSID_225372_m2_s4.pdf	1/9/2024	2	4
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (10-6) 12-14-2006.pdf	12/14/2006	10	6
EUGENE	CUGR_THUR_1	Cougar-Thurston 10-6 mile - 2006.pdf	12/14/2006	10	6
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (16-1) 12-14-2006.pdf	12/14/2006	16	1
EUGENE	CUGR_THUR_1	Cougar-Thurston 16-1 mile - 2006.pdf	12/14/2006	16	1
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (19-2) 12-14-2006.pdf	12/14/2006	19	2
EUGENE	CUGR_THUR_1	Cougar-Thurston 19-2 mile - 2006.pdf	12/14/2006	19	2
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (2-3) 03-13-2011.pdf	3/13/2011	2	3

EUGENE	CUGR_THUR_1	Cougar-Thurston 1 (5-3) 12-21-2015 with Photos.pdf	12/21/2015	5	3
EUGENE	Dexter Tap to Lookout Point-Alvey	Dexter Tap 1-5 mile - 2006.pdf	12/14/2006	1	5
EUGENE	Dexter Tap to Lookout Point-Alvey	DEXTER TAP TO LP-A-1 (1-5) 12-14-2006.pdf	12/14/2006	1	5
EUGENE	Dorena Tap	Dorena Tap (3-1 to 5-2) 2-25-19 Snow storm.pdf	2/25/2019	3/1 to	5/2
EUGENE	Dorena Tap to Alvey-Martin Creek No 1	Dorena Tap to Alvey-Martin Creek (2-4) 2-20-2017.pdf	2/20/2017	2	4
EUGENE	Dorena Tap to Alvey-Martin Creek No 1	Dorena Tap to Alvey-Martin Creek 4-5_12-15-16.pdf	12/14/2016	4	5
EUGENE	DORENA TAP TO ALVEY-MARTIN CREEK-1	DORENA TAP TO ALVEY-MARTIN CREEK NO 1 (4-4) 2-8-2014.pdf	2/8/2014	4	4
EUGENE	DORET_A_MN_1_2024_01_14	TCO_OARSID_225481_m2_s2.pdf	1/14/2024	2	2
EUGENE	DORET_A_MN_1_2024_01_14	TCO_OARSID_225492_m4_s4.pdf	1/14/2024	4	2
EUGENE	DORET_A_MN_1_2024_01_14	TCO_OARSID_225493_m4_s5.pdf	1/14/2024	4	5
EUGENE	DORET_A_MN_1_2024_07_28	TCO_OARSID_226645_m2_s8.pdf	7/28/2024	2	8
EUGENE	EUGENE-ALDERWOOD	Eugene-Alderwood (15-16) 5-21-2019.pdf	5/21/2019	16	16
EUGENE	FAIRVIEW-BANDON-1	FAIRVIEW-BANDON-1 (8-5) 03-13-2012.pdf	3/13/2012	8	5
EUGENE	FAIRVIEW-ROGUE-1	FAIRVIEW-ROGUE NO 1 (57-2) 1-16-2014.pdf	1/16/2014	57	2
EUGENE	Foster Tap	Foster Tap to Green Peter-Lebanon.PDF	11/5/2015	2	5
EUGENE	GRPT_LEBA_1_2021_01_13	TCO_OARSID_217273_m2_s3.pdf	1/13/2021	2	3
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-1) 11-05-2005.pdf	11/5/2005	17	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-2) 01-28-2006.pdf	1/28/2006	17	2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-2) 4-7-2017.pdf	4/7/2017	17	2
EUGENE	Hills Creek-Lookout Point-1	Hills Creek-Lookout Point-1 (17-7) 12-25-2018.pdf	12/25/2018	17	7
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 17-1 mile - 2005.pdf	11/5/2005	17	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 17-3 mile - 2006.pdf	1/28/2006	17	3
EUGENE	Hills Creek-Lookout Point-1	Hills Creek-Lookout Point-1 (2-1 to 24-8) 2-25-19 Snow storm.pdf	2/25/2019	2/1 to	24/8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (20-8) 12-28-2011.pdf	12/28/2001	20	8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point 21-5 mile - 2006.pdf	12/14/2006	21	5
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT NO 1 (21-1) 12-20-2012.pdf	12/20/2012	21	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (21-1) 12-20-2012.pdf	12/20/2012	21	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (21-5) 12-14-2006.pdf	12/14/2006	21	5
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (22-1) 2-20-2017.pdf	2/20/2017	22	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (22-3) 03-13-2011.pdf	3/13/2011	22	3
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point Nc 1 115kv - 2010.pdf	11/23/2010	23	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (23-1) 11-23-2010.pdf	11/23/2010	23	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (24-7) 03-13-2011.pdf	3/13/2011	24	7
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lockout Point (24-4) 12-14-2018.pdf	12/14/2018	24	4
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (25-1) 02-04-2008.pdf	2/4/2008	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (25-1) 03-13-2011.pdf	3/13/2011	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point-1 (25-8) 6-15-2018.pdf	6/15/2018	25	8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 25-1 mile - 2006.pdf	2/4/2006	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (26-2) 4-7-2017.pdf	4/7/2017	26	2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (3-1 to 3-2) 03-21-2012.pdf	3/21/2012	3	3/1 - 3/2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point btwn 9-7 and 9-8 - 2006.pdf	12/13/2006	9	7 & 8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (9-7 to 9-8) 12-13-2006.pdf	12/13/2006	9	9/7 - 9/8
EUGENE	Hls Creek-Lookout Point-1	Hls Creek-Lookout Point-1 (21-7) 8-22-19.pdf	8/22/2019	21	7
EUGENE	HLCK_LKPT_1_2021_12_30	TCO_OARSID_221250_m8_s5.pdf	12/30/2021	8	5
EUGENE	HLSC_LKPT_1_2024_02_26	TCO_OARSID_225926_m17_s5.pdf	2/26/2024	17	5
EUGENE	HLSC_LKPT_1_2024_11_17	TCO_OARSID_228246_m21_s8.pdf	11/17/2024	21	8
EUGENE	HLSC_LKPT_1_2024_12_31	TCO_OARSID_228743_m14_s6.pdf	12/31/2024	14	6
EUGENE	LANE_WEND_1_2024_01_09	TCO_OARSID_225329_m28_s5.pdf	1/9/2024	28	5
EUGENE	LANE_WEND_1_2024_01_09	TCO_OARSID_225329_m29_s1.pdf	1/9/2024	29	1
EUGENE	LANE_WEND_1_2024_01_13	TCO_OARSID_225440_m28_s7.pdf	1/13/2024	28	7
EUGENE	LANE_WEND_1_2024_01_13	TCO_OARSID_225440_m31_s4.pdf	1/13/2024	31	4
EUGENE	LANE_WEND_1_2024_11_15	TCO_OARSID_228202_m16_s5.pdf	11/15/2024	16	5
EUGENE	LANE_WEND_2_2022_12_27	TCO_OARSID_223489_m29_s1.pdf	12/27/2022	29	1
EUGENE	LANE_WEND_2_2022_12_27	TCO_OARSID_223495_m29_s1.pdf	12/27/2022	29	1

EUGENE	LANE_WEND_2_2024_01_13	TCO_OARSID_225472_m22_s2.pdf	1/13/2024	22	2
EUGENE	LANE-WENDSON-1	Lane-Wend 12-6 mile TCO - 2010.pdf	1/19/2010	12	6
EUGENE	LANE-WENDSON-1	Lane-Wendson 1 7361 (22-1) 02-13-16.pdf	3/13/2016	29	1
EUGENE	LANE-WENDSON-1	Lane-Wendson 1 (30-3) 7361 03-13-16.pdf	3/13/2016	30	3
EUGENE	LANE-WENDSON-2	LANE-WENDSON NO 2 (18-2) 2-8-2014.pdf	2/8/2014	18	2
EUGENE	LKPT_ALVY_1_2022-01-13	TCO_OARSID_221460_m4_s6.pdf	1/13/2022	4	6
EUGENE	LOOKOUT POINT-ALVEY-2	Lookout Point-Alvey-2 (3-10) 9-21-2019.pdf	9/21/2019	3	10
EUGENE	Marion Lane	Marion Lane MI 30 map.pdf	12/29/2005	30	1 & 2
EUGENE	MARN_ALVY_1_2023_09_24	TCO_OARSID_224986_m41_s2.pdf	9/24/2023	41	2
EUGENE	MARN_ALVY_1_2024_01_09	TCO_OARSID_225336_m56_s4.pdf	1/9/2024	56	4
EUGENE	MARN_ALVY_1_2024_01_14	TCO_OARSID_225542_m61_s2.pdf	1/14/2024	61	2
EUGENE	Martin Creek-Dran-1	Martin Cleek-Drain-1 (3-3, 7-8, 10-6) 2-25-19 Snow storm.pdf	2/25/2019	3/3 to	10/6
EUGENE	MARTIN CREEK-DRAIN-1	Martin Cr-Drain 6-1 mile - 2006.pdf	2/3/2006	6	1
EUGENE	MARTIN CREEK-DRAIN-1	Martin Creek-Drain 9-1 mile - 2006.pdf	12/14/2006	9	1
EUGENE	MARTIN CREEK-DRAIN-1	MARTIN CREEK-DRAIN-1 (9-1) 02-03-2006.pdf	2/3/2006	9	1
EUGENE	MARTIN CREEK-DRAIN-1	MARTIN CREEK-DRAIN-1 (5-1) 12-14-2006.pdf	12/14/2006	9	1
EUGENE	RAINBOW VALLEY TAP TO L-W-1	RAINBOW VALLEY TAP TO L-W-1 (3-9) 03-21-2012.pdf	3/21/2012	3	9
EUGENE	REEDSPORT-FAIRVIEW	Reedsport-Fairview (38-6) 4-13-2016.pdf	4/13/2016	38	6
EUGENE	REEDSPORT-FAIRVIEW DOG LEG	REEDSPORT-FAIRVIEW DOG LEG (8-5) 03-13-2011.pdf	3/13/2011	8	5
EUGENE	REST_FAYW_2_2024_03_10	TCO_OARSID_226019_m24_s3.pdf	3/10/2024	24	3
EUGENE	RESTON-FAIRVIEW-2	RESTON-FAIRVIEW-2 (23-4) 11-12-2006.pdf	11/12/2006	23	4
EUGENE	RESTON-FAIRVIEW-2	Reston-Fairview2 23-4 mile - 2006.pdf	11/12/2006	23	4
EUGENE	SANT_ALVY_1_2025_02_24	TCO_OARSID_229043_m52_s3.pdf	2/24/2025	52	3
EUGENE	SANT_ALVY_2_2021_01_13	TCO_OARSID_217264_m28_s3.pdf	1/13/2021	28	3
EUGENE	SANT_ALVY_2_2022_07_10	TCO_OARSID_222578_m36_s2.pdf	7/10/2022	39	2
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m36_s6.pdf	1/14/2024	36	6
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m38_s4.pdf	1/14/2024	38	4
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m38_s6.pdf	1/14/2024	38	6
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m66_s1.pdf	1/14/2024	60	1
EUGENE	SANT_TOLE_1_2023_06_20	TCO_OARSID_224611_m49_s8.pdf	6/20/2023	49	8
EUGENE	SANT_TOLE_1_2025_02_24	TCO_OARSID_229055_m55_s1.pdf	2/24/2025	55	1
EUGENE	SANT_TOLE_1_2025_02_24	TCO_OARSID_229049_m56_s1.pdf	2/24/2025	56	1
EUGENE	SANT_TOLE_2022_07_02	TCO_OARSID_222467_m53_s2.pdf	7/2/2022	53	2
EUGENE	SANTIAM-ALVEY-1	Santiam-Alvey 27-3 mile - 2006.pdf	12/14/2006	27	3
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1 (27-3) 12-14-2006.pdf	12/14/2006	27	3
EUGENE	SANTIAM-ALVEY-1	Santiam-Alvey 28-1 mile - 2006.pdf	12/14/2006	28	1
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1 (28-1) 12-14-2006.pdf	12/14/2006	28	1
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1-2 (34-4) 03-21-2012.pdf	3/21/2012	34	4
EUGENE	Santiam-Alvey-1 & 2	Santiam-Alvey-1n2 (36-6) 2-25-19 Snow storm.pdf	2/25/2019	36	6
EUGENE	SANTIAM-TOLEDO-1	Santiam-Toledo 49-4 mile - 2006.pdf	12/14/2006	49	4
EUGENE	SANTIAM-TOLEDO-1	SANTIAM-TOLEDO-1 (49-4) 12-14-2006.pdf	12/14/2006	49	4
EUGENE	SANTIAM-TOLEDO-1	Santiam-Toledo-1 (52-2) 12-16-2012.pdf	12/16/2012	52	2
EUGENE	TCO_OARSID_225979_m39_s3	TCO_OARSID_225979_m39_s3.pdf	3/2/2024	39	3
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s4.pdf	1/14/2024	4	4
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s1.pdf	1/14/2024	4	1
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s5.pdf	1/14/2024	4	5
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (2-2) 9-13-2020.pdf	9/7/2020	2	2
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (2-5) 9-13-2020.pdf	9/7/2020	2	5
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (5-2) 9-13-2020.pdf	9/7/2020	5	2
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (6-1) 9-13-2020.pdf	9/7/2020	6	1
EUGENE	TOLE_WEND_1_2020_11_13	TCO_OARSID_216712_m41_s5.pdf	11/13/2020	41	5
EUGENE	TOLE_WEND_1_2022_12_28	TCO_OARSID_223506_m37_s2.pdf	12/28/2022	37	2
EUGENE	TOLE_WEND_1_2024_03_02	TCO_OARSID_225978_m39_s3.pdf	3/2/2024	39	3
EUGENE	TOLEDO-WENDSON-1	Toledo-Wendson 23-1 mile - 2006.pdf	1/10/2006	23	1

EUGENE	TOLEDO-WENDSON-1	TOLEDO-WENDSON-1 (23-1) 01-10-2006.pdf	1/10/2006	23	1
EUGENE	TOLEDO-WENDSON-1	TOLEDO-WENDSON-1 (41-c) 03-20-2013.pdf	3/20/2013	41	5
IDAHO FALLS	PRRVT_AFSD_1	Prest River Tap to Albeni Falls-Sand Creek No 1 (1-10) 8-18-2016.pdf	8/18/2016	1	10
IDAHO FALLS	PRRVT_AFSD_1	Prest River Tap - Albeni Falls Sand Creek (12-2) 05-23-2019.pdf	5/23/2019	2	12
IDAHO FALLS	PRRVT_AFSD_1	Prest River Wind Report 5-20-19.pdf	5/20/2019	2	12
IDAHO FALLS	PRRVT_AFSD_1_2021_04_18	TCO_OARSID_218250_m3_s1.pdf	4/18/2021	3	1
IDAHO FALLS	PRRVT_AFSD_1_2022_11_4	TCO_OARSID_223207_m2_s1.pdf	11/4/2022	2	1
IDAHO FALLS	PRRVT_AFSD_1_2024_09_25	TCO_OARSID_227384_m1_s15.pdf	9/25/2024	1	15
IDAHO FALLS	PRRVT_AFSD_1_2024_09_25	TCO_OARSID_227384_m1_s3.pdf	9/25/2024	1	3
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_23-8.pdf	5/31/2020	23	8
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_28-5.pdf	5/31/2020	28	5
KALISPELL	COFL_TREG_1	Columbia Falls - Trego (39-8) 6-24-2018.pdf	6/24/2018	39	8
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_9-4.pdf	5/31/2020	9	4
KALISPELL	COFL_TREG_1_2023_06_24)	TCO_OARSID_224627_m18_s2.pdf	6/24/2023	18/2	16/3
KALISPELL	COFL_TREG_1_2024_08_23	TCO_OARSID_226970_m23_s3.pdf	8/23/2024	23	3
KALISPELL	COFL_TREGO_1_2024_11_30	TCO_OARSID_228416_m24_s4.pdf	11/30/2024	24	4
KALISPELL	HOTS_RATL_1_2024_08_10	TCO_OARSID_226750_m47_s7.pdf	8/10/2024	47	7
KALISPELL	HOTS_RATL_1_2024_08_10	TCO_OARSID_226747_m47_s7.pdf	8/10/2024	47	7
KALISPELL	LANC_NOXN_1_2021_04_18	TCO_OARSID_218241_m64_s1.pdf	4/18/2021	64	1
KALISPELL	NOXN_HOTS_1_2021_01_13	TCO_OARSID_217309_m16_s1.pdf	1/13/2021	16	1
LONGVIEW	BOPH_NCAM_1_2024_01_13	TCO_OARSID_225471_m16_s7.pdf	1/13/2024	16	7
LONGVIEW	BOPH_NCAM_1_2024_01_20	TCO_OARSID_225642_m18_s3.pdf	1/20/2024	18	3
LONGVIEW	ROSS_ALCOA_3_2024_11_01	TCO_OARSID_228064_m4_s3.pdf	11/1/2024	4	3
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield 10-8 mile - 2006.pdf	11/13/2006	10	8
OLYMPIA	CHEH_MASY_1	CHEHALIS-MAYFIELD-1 (10-8) 11-13-2006.pdf	11/13/2006	10	8
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield mi 3 TCO - 2009.pdf	3/13/2009	3	4
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield1_Mi03 map.pdf	3/13/2009	3	4
OLYMPIA	CHEH_MASY_1_2021_02_13	TCO_OARSID_217567_m19_s6.pdf	2/13/2021	19	6
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA (10-1) 10-20-2011.pdf	10/20/2011	10	1
OLYMPIA	CHEH_OLYM_1	Chehalis-Olympia-1 (18-8) 1-6-2019.pdf	1/6/2019	18	8
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 19-8 map.pdf		19	8
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 19-8 b map.pdf		19	8
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (28-10) 01-06-2007.pdf	1/6/2007	28	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Olympia-1 (23-4) 11-2-2013.pdf	11/2/2013	23	4
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 26-6 mile - 2006.pdf	2/17/2006	26	6
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (26-6) 02-17-2006.pdf	2/17/2006	26	6
OLYMPIA	CHEH_OLYM_1	CHEH-OLYM 1 230kV (26-9) 11-17-2015.pdf	11/17/2015	26	9
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 27-1 mile - 2006.pdf	12/14/2006	27	1
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (27-1) 12-14-2006.pdf	12/14/2006	27	1
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 28-10 mile - 2006.pdf	12/14/2006	28	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 28-10 mile - 2007.pdf	1/6/2007	28	10
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (28-10) 12-14-2006.pdf	12/14/2006	28	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 3-5 mile - 2006.pdf	12/14/2006	3	5
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (3-5) 12-14-2006.pdf	12/14/2006	3	5
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (9-9) 11-13-2006.pdf	11/13/2006	9	9
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond (19-1) 12-12-2019.pdf	12/12/2019	19	1
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond No. 1 - 2012.pdf	1/19/2012	14	6 &7
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond btwn 15-2 and 15-4 mile - 2006.pdf	12/14/2006	15	3 & 4
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (15-3 to 15-4) 12-14-2006.pdf	12/14/2006	15	15/3 - 15/4
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 17-1 mile - 2006.pdf	12/14/2006	17	1
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (17-1) 12-14-2006.pdf	12/14/2006	17	1
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 19-9 mile - 2006.pdf	2/3/2006	19	9
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (19-9) 02-03-2006.pdf	2/3/2006	19	9
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 21-8 mile - 2006.pdf	12/14/2006	21	8

OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (21-8) 12-14-2005.pdf	12/14/2005	21	8
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND (25-1) 12-19-2019.pdf	12/19/2019	25	1
OLYMPIA	CHEH_RAYM_1	Cheh-Raym (29-2) 8-29-15.pdf	8/29/2015	29	2
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 30-9 mile - 2006.pdf	12/14/2006	30	9
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (30-9) 12-14-2006.pdf	12/14/2006	30	9
OLYMPIA	CHEH_RAYM_1	CHEH-RAYM (32-6 to 32-8) 1-11-2014.pdf	1/11/2014	32	32/6 - 32/8
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (36-2) 11-19-2012.pdf	11/19/2012	36	2
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond-1 (36-4) 10-14-2016.pdf	10/14/2016	36	4
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 41-6 Mile - 2006.pdf	2/3/2006	41	6
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (41-6) 02-03-2006.pdf	2/3/2006	41	6
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 45-11 mile - 2006.pdf	2/3/2006	45	11
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (45-11) 02-03-2006.pdf	2/3/2006	45	11
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 7-6 mile - 2006.pdf	3/3/2006	7	6
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (7-6) 03-06-2006.pdf	3/3/2006	7	6
OLYMPIA	CHEH_RAYM_1_2022_04_11	TCO_OARSID_223173_m37_s4.pdf	11/4/2022	37	4
OLYMPIA	CHEH_RAYM_1_2023_01_09	TCO_OARSID_223572_m24_s7.pdf	1/9/2023	24	7
OLYMPIA	CHEH_RAYM_1_2024_12_14	TCO_OARSID_226559_m14_s1.pdf	12/14/2024	14	1
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m21_s2.pdf	2/23/2025	21	2
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m33_s5.pdf	2/23/2025	33	5
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m36_s1.pdf	2/23/2025	36	1
OLYMPIA	COVI_BETS_1_2024_11_19	TCO_OARSID_228276_m10_s2.pdf	11/19/2024	10	2
OLYMPIA	COVI_BTRD_1_2024_06_04	TCO_OARSID_226342_m9_s4.pdf	6/4/2024	9	4
OLYMPIA	DRIS_NASE_1_2021_02_13	TCO_OARSID_217577_m28_s3.pdf	2/13/2021	28	3
OLYMPIA	Driscoll Naselle	Driscoll Naselle (20-4) 2-11-2019.pdf	2/11/2019	20	4
OLYMPIA	ELBE TAP TO ALDER-LAGRANDE-1	ELBE TAP TO ALDER-LAGRANDE NO 1 (3-11) 1-11-2014.pdf	1/11/2014	3	11
OLYMPIA	Email to Mike Hamel on 12/11/06	Email to Mike Hamel re 11-06 Outages.pdf	12/11/2006		
OLYMPIA	Fairmont - Port Angeles-2	Fairmount-Port Angeles-2 (27-7) 12-14-2018 storm.pdf	12/14/2018	27	7
OLYMPIA	Fairmont - Port Angeles-2	Fairmount Pt Angeles 4_2 TCO - 2010.pdf	1/18/2010	4	2
OLYMPIA	Fairmont - Port Angeles-2	Fairmount-Port Angeles-2 (4-6) 12-14-2018 storm.pdf	12/14/2018	4	6
OLYMPIA	Fairmont - Port Angeles-2	FAIRMOUNT-PORT ANGELES-2 (5-1) 10-01-2012.pdf	10/1/2012	5	1
OLYMPIA	FAMT_POAN_1_2022_2_19	TCO_OARSID_221685_m6_s1.pdf	2/19/2022	6	1
OLYMPIA	FAMT_POAN_2_2026_11_17	TCO_OARSID_216773_m8_s2.pdf	11/17/2020	8	2
OLYMPIA	HOLC_NASE_1_2024_01_07	TCO_OARSID_225297_m1_s4.pdf	1/7/2024	1	4
OLYMPIA	HOLC_NASE_1_2024_01_09	TCO_OARSID_225342_m01_s04.pdf	1/9/2024	1	4
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle 13-5 mile - 2006.pdf	12/14/2006	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-4) 11-15-2006.pdf	11/15/2006	13	4
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle 13-4 mile - 2006.pdf	11/15/2006	13	4
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-5) 01-18-2012.pdf	1/18/2012	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-5) 12-14-2006.pdf	12/14/2006	13	5
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle No 1 - 2012.pdf	1/18/2012	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE (14-4) 02-19-2011.pdf	2/19/2011	14	4
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (6-3) 03-12-2012.pdf	3/12/2012	6	3
OLYMPIA	KITS_BNGR_1_2023_10_03	TCO_OARSID_225012_m3_s1.pdf	10/3/2023	3	1
OLYMPIA	Mossyrock-Chehalis	MOSY-CHEH-1 (7-3) 12-10-2014.pdf	12/10/2014	7	3
OLYMPIA	MOSY_CHEH_1_2023_05_15	TCO_OARSID_224346_m8_s8.pdf	5/15/2023	8	8
OLYMPIA	MOSY_CHEH_1_2024_12_19	TCO_OARSID_226846_m15_s1.pdf	12/19/2024	15	1
OLYMPIA	NASELLE TAP TO A-A 1, A-A 1 TO CATHLEMET	NASELLE TAP TO A-A 1 TO CATHLEMET (9-1) 11-05-2005.pdf	11/5/2005	9	1
OLYMPIA	Naselle Tap to Longview-Astoria	Naselle Tap 9-1 mile - 2005.pdf	12/5/2005	9	1
OLYMPIA	NASELLE-TARLETT-1	Naselle-Tarlett 1-6 mile - 2006.pdf	12/14/2006	1	6
OLYMPIA	NASELLE-TARLETT-1	NASELLE-TARLETT-1 (1-6) 12-14-2006.pdf	12/14/2006	1	6
OLYMPIA	OLYM_CHEH_1_2024_01_10	TCO_OARSID_225386_m8_s7.pdf	1/10/2024	8	7
OLYMPIA	OLYM_GCOU_1_2021_12_30	TCO_OARSID_221244_m66_s4.pdf	12/30/2021	69	4
OLYMPIA	OLYM_GCOU_1_m58_s1	TCO_OARSID_217571_m58_s1.pdf	2/13/2021	58	1
OLYMPIA	OLYM_STCR_1_2021_11_15	TCO_OARSID_220745_m1_s2.pdf	11/15/2021	1	2

OLYMPIA	OLYMPIA-GRAND COULEE-1	Olym - Coul 1 - 2011.pdf	9/3/2011	18	1
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE (18-1) 03-09-2011.pdf	3/9/2011	18	1
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (33-2) 03-14-2012.pdf	3/11/2012	33	2
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee btwn 39-3 and 39-4 mile - 2006.pdf	12/14/2006	39	3 & 4
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (39-3 to 39-4) 12-14-2006.pdf	12/14/2006	39	39/3 - 39/4
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee 46-5 mile - 2006.pdf	11/10/2006	46	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (46-5) 11-10-2006.pdf	11/10/2006	46	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee 1 (66-5) 3-4-2016.pdf	3/4/2016	66	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLY-GC (69-4 to 69-5) 12-9-15_Outage Report.pdf	12/9/2015	69	69/4 - 69/5
OLYMPIA	OLYMPIA-SHELTON-1	Olympia-Shelton 8-4 mile - 2006.pdf	2/4/2006	8	4
OLYMPIA	OLYMPIA-SHELTON-1	OLYMPIA-SHELTON-1 (8-4) 02-04-2006.pdf	2/4/2006	8	4
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	Olympia-S Tacoma 18-1 mile - 2006.pdf	12/14/2006	18	1
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	OLYMPIA-SOUTH TACOMA-1 (18-1) 12-14-2006.pdf	12/14/2006	18	1
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	Olympia-S Tacoma 32-3 mile - 2006.pdf	12/14/2006	32	3
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	OLYMPIA-SOUTH TACOMA-1 (32-3) 12-14-2006.pdf	12/14/2006	32	3
OLYMPIA	POAN_SAPO_1_2006_02_04	TCO_OARSID_150229_m25_s7.pdf	2/4/2006	25	7
OLYMPIA	POAN_SAPO_1_2006_02_04	TCO_OARSID_150229_m25_s8.pdf	2/4/2006	25	8
OLYMPIA	POAN_SAPO_1_2006_02_27	TCO_OARSID_150587_m16_s7.pdf	2/27/2006	16	7
OLYMPIA	POAN_SAPO_1_2006_02_27	TCO_OARSID_150587_m32_s2.pdf	2/27/2006	32	2
OLYMPIA	POAN_SAPO_1_2006_03_09	TCO_OARSID_150756_m17_s3.pdf	3/9/2006	17	3
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154454_m17_s3.pdf	11/15/2006	17	3
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154454_m17_s5.pdf	11/15/2006	17	5
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154455_m25_s1.pdf	11/15/2006	25	1
OLYMPIA	POAN_SAPO_1_2006_11_26	TCO_OARSID_154601_m15_s8.pdf	11/26/2006	15	8
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_159055_m19_s4.pdf	11/18/2009	19	4
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_159055_m3_s2.pdf	11/18/2009	3	2
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_159055_m9_s2.pdf	11/18/2009	9	2
OLYMPIA	POAN_SAPO_1_2012_02_25	TCO_OARSID_178593_m4_s2.pdf	2/25/2012	4	2
OLYMPIA	POAN_SAPO_1_2016_10_14	TCO_OARSID_119669_m29_s10.pdf	10/14/2016	29	10
OLYMPIA	POAN_SAPO_1_2017_11_19	TCO_OARSID_204532_m30_s5.pdf	11/13/2017	30	5
OLYMPIA	POAN_SAPO_1_2018_01_21	TCO_OARSID_204998_m32_s8.pdf	1/21/2018	32	8
OLYMPIA	POAN_SAPO_1_2018_12_14	TCO_OARSID_208752_m2_s2.pdf	12/14/2018	2	2
OLYMPIA	POAN_SAPO_1_2018_12_14	TCO_OARSID_208752_m3_s2.pdf	12/14/2018	3	2
OLYMPIA	POAN_SAPO_1_2020_01_31	TCO_OARSID_213459_m29_s10.pdf	1/31/2020	29	10
OLYMPIA	POAN_SAPO_1_2020_02_01	TCO_OARSID_213463_m33_s9.pdf	2/1/2020	33	9
OLYMPIA	POAN_SAPO_1_2020_03_31	TCO_OARSID_213949_m33_s8.pdf	3/31/2020	33	8
OLYMPIA	POAN_SAPO_1_2021_01_05	TCO_OARSID_217120_m33_s2.pdf	1/5/2021	33	2
OLYMPIA	POAN_SAPO_1_2021_01_05	TCO_OARSID_217120_m35_s1.pdf	1/5/2021	35	1
OLYMPIA	POAN_SAPO_1_2022_10_27	TCO_OARSID_223150_m23_s7.pdf	10/27/2022	23	7
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225292_m36_s8.pdf	1/6/2024	30	8
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225686_m33_s6.pdf	1/29/2024	33	6
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225686_m34_s6.pdf	1/29/2024	34	6
OLYMPIA	POAN_SAPO_1_2024_10_18	TCO_OARSID_227801_m26_s6.pdf	10/18/2024	26	6
OLYMPIA	POAN_SAPO_1_2025_02_03	TCO_OARSID_228907_m36_s1.pdf	2/3/2025	36	1
OLYMPIA	POAN_SAPO_1_2025_02_03	TCO_OARSID_228907_m36_s11.pdf	2/3/2025	36	1
OLYMPIA	POAN_SAPO_1_2025_02_19	TCO_OARSID_229014_m26_s3.pdf	2/19/2025	26	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 15-8 mile - 2006.pdf	11/26/2006	15	8
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (15-8) 11-26-2006.pdf	11/26/2006	15	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 17-3 mile - 2006.pdf	3/9/2006	17	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho btwn 17-3 and 17-5 mile - 2006.pdf	11/15/2006	17	3 - 5
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (17-3 to 17-5) 11-15-2006.pdf	11/15/2006	17	17/3 - 17/5
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (17-3) 03-09-2006.pdf	3/9/2006	17	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles - Sappho (29-10) 10-14-2016.pdf	10/14/2016	19	10
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-4a TCO - 2009.pdf	11/18/2009	19	4

OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-4b TCO - 2006.pdf	11/15/2006	19	4
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-7 mile - 2006.pdf	2/27/2006	19	7
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (19-7) 02-27-2006.pdf	2/27/2006	19	7
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (2-2) 12-13-2018 storm.pdf	12/14/2018	2	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-1 mile - 2006.pdf	11/15/2006	25	1
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-7 mile - 2006.pdf	2/4/2006	25	7
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-8 mile - 2006.pdf	2/4/2006	25	8
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-1) 11-15-2006.pdf	11/15/2006	25	1
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-7) 02-04-2006.pdf	2/4/2006	25	7
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-8) 02-04-2006.pdf	2/4/2006	25	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho (29-10) 1-31-2020.pdf	1/31/2020	29	10
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 3-2 TCO - 2009.pdf	11/15/2009	3	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (3-2) 12-14-2018 storm.pdf	12/14/2018	3	2
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (30-5) 11-19-2017.pdf	11/19/2017	30	5
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 32-2 mile - 2006.pdf	2/27/2006	32	2
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (32-2) 02-27-2006.pdf	2/27/2006	32	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (32-8) 1-21-2018.pdf	1/21/2018	32	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho (33-9) 2-1-2020.pdf	2/1/2020	33	9
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (33-8) 3-31-2020.pdf	3/31/2020	33	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles Sappho 1 (4-2) 02-28-2012.pdf	2/29/2012	4	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 9-2 TCO - 2009.pdf	11/15/2009	9	2
OLYMPIA	RAVE_PAUL_1_2021-02-13	TCO_OARSID_217547_m11_s4.pdf	2/13/2021	11	4
OLYMPIA	RAYM_HENK_1_2023_4_30	TCO_OARSID_224200_m1_s2.pdf	4/30/2023	1	2
OLYMPIA	Raymond-Cosmopolis-1	Raymond-Cosmopolis-1 (14-4) 11-14-2017.pdf	11/14/2017	14	4
OLYMPIA	SATP_COSM_1_2023_01_02	TCO_OARSID_223498_m15_s7.pdf	1/2/2023	15	7
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	SATSOP PARK-COSMOPOLIS-1 (10-2) 12-14-2006.pdf	12/14/2006	10	2
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop-Cosmo 10-2 mile - 2006.pdf	12/14/2006	10	2
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop Park-Cosmopolis-1 (15-7) 1-6-2019.pdf	1/6/2019	15	7
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	SATSOP PARK-COSMOPOLIS-1 (8-3) 12-14-2006.pdf	12/14/2006	8	3
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop-Cosmo 8-3 mile - 2006.pdf	12/14/2006	8	3
OLYMPIA	SHEL_FAMT_1_2021_01_12	TCO_OARSID_217265_m32_s1.pdf	1/12/2021	32	1
OLYMPIA	SHEL_KTSA_1_2021_01_12	TCO_OARSID_217175_m17_s2.pdf	1/12/2021	17	2
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 18-3 mile - 2006.pdf	12/14/2006	18	3
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (18-3) 12-14-2006.pdf	12/14/2006	18	3
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 25-1 mile.axe - 2006.pdf	2/4/2006	25	1
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 25-2 mile - 2006.pdf	2/4/2006	25	2
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (25-1) 02-04-2006.pdf	2/4/2006	25	1
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (25-2) 02-04-2006.pdf	2/4/2006	25	2
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 26-5 mile - 2006.pdf	2/4/2006	26	5
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (26-5) 02-04-2006.pdf	2/4/2006	26	5
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmont-1 (57-8) 11-26-2018.pdf	11/24/2018	57	8
OLYMPIA	SHELTON-FAIRMOUNT-2	SHEL-FAMT-2 (8-1) 12-17-2015.pdf	12/17/2015	8	1
OLYMPIA	SOUTH ELMA - SATSOP PARK	SOUTH ELMA - SATSOP PARK (2-7) 7-27-2020.pdf	7/27/2020	2	7
OLYMPIA	St Clair-South Tacoma-1	St Clair-South Tacoma-1 (2-5) 12-20-2018.pdf	12/20/2018	2	5
ROSS	Alston-Astoria	Alston-Astoria-1 (43-1) 01-31-2006.pdf	1/31/2006	43	1
ROSS	Alston-Astoria	Alston-Astoria 43-1 mile - 2006.pdf	1/31/2006	43	1
ROSS	Alston-Astoria	Alston-Astoria 7-5 mile - 2005.pdf	11/17/2015	7	5
ROSS	Alston-Astoria	ALLSTON-ASTORIA-1 (7-5) 11-17-2005.pdf	11/17/2005	7	5
ROSS	ALSN_CLSO_1	ALLSTON-CLATSOP-1 (27-4) 01-30-2006.pdf	1/30/2006	27	4
ROSS	ALSN_CLSO_1	Alston-Clatsop-1 (27-6) 11-13-2017.pdf	11/13/2017	27	6
ROSS	ALSN_CLSO_1	Alston-Clatsop 27-4 mile - 2006.pdf	1/30/2006	27	4
ROSS	ALSN_DRIS_1	Alston-Driscoll-2 (6-1) 10-28-2017.pdf	10/23/2017	6	1
ROSS	BIGE_MCLO_1&2	BIG EDDY-MCLOUGHLIN-1-2 (72-4) 02-04-2006.pdf	2/4/2006	72	4
ROSS	BIGE_OSTD_1	Big Eddy-Ostrander Tree Outage 3.29.2010.pdf	3/29/2010	55	4

ROSS	BIGE_OSTD_1	BIG EDDY-OSTRANDER-1 (55-4) 03-25-2010.pdf	3/29/2010	55	4
ROSS	BIGE_TROUT_1_2022_12_27	TCO_OARSID_223512_m61_s4.pdf	12/27/2022	61	4
ROSS	BOPH_ALCO_1&2	Bonneville-Alcoa Sifton-Ross (37-2) 01-05-2018.pdf	1/5/2018	37	2
ROSS	BOPH_ALCO_1&2	Bonneville-Alcoa (8-1) 02-09-2017.pdf	2/9/2017	8	1
ROSS	BOPH_ALCO_2_2022_12_27	TCO_OARSID_223386_m21_s2.pdf	12/27/2022	21	2
ROSS	BOPH_ALCO_2_2024_01_13	TCO_OARSID_225461_m16_s7.pdf	1/13/2024	16	7
ROSS	BOPH_ALCO_2_2024_01_20	TCO_OARSID_225640_m18_s3.pdf	1/20/2024	18	3
ROSS	CARD_COWL_1_2021_10_24	TCO_OARSID_220468_m6_s5.pdf	10/24/2021	6	5
ROSS	DRIS_ASTO_1_2021_02_13	TCO_OARSID_217595_m26_s2.pdf	2/13/2021	20	2
ROSS	Keeler-Allston	Keeler_Allston_42Mile_12-21-2015.pdf	12/21/2015	42	
ROSS	KEELER-OREGON CITY-2	Keeler-OC 2-6 mile - 2005.pdf	12/18/2005	2	6
ROSS	KEELER-OREGON CITY-2	KEELER-OREGON CITY-2 (2-6) 12-18-2005.pdf	12/18/2005	2	6
ROSS	McNary-Ross	McNary-Ross 345KV (132-2) 2-28-2016 wPics weather.pdf	2/23/2016	132	2
ROSS	NBON_ROSS_1_2021_01_12	TCO_OARSID_217267_m33_s4.pdf	1/12/2021	33	4
ROSS	NORTH BONNEVILLE-TROUTDALE-1	NORTH BONNEVILLE-TROUTDALE-1 (22-1) 12-18-2005.pdf	12/18/2005	22	1
ROSS	NORTH BONNEVILLE-TROUTDALE-1	NORTH BONNEVILLE-TROUTDALE-1 (22-1) 2005.pdf	12/18/2005	22	1
ROSS	NORTH BONNEVILLE-TROUTDALE-1	North Bonneville-Troutdale-1 (8-7) 9-8-2020.pdf	9/8/2020	8	7
ROSS	OSTD_PERL_1_2022_1_7	TCO_OARSID_221421_m6_s3.pdf	1/7/2022	6	3
ROSS	Ostrander Sub	Ostrander Sub 72-4 mile - 2006.pdf	2/4/2006	72	4
ROSS	Ross-Lexington-1	Ross_Lexington_16Mile_12-21-2015.pdf	12/21/2015	16	
ROSS	Ross-Lexington-1	Ross_Lexington_17Mile_12-21-2015.pdf	12/21/2015	17	
ROSS	Ross-Lexington-1	Ross_Lexington_18_3Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	Ross-Lexington-1	Ross_Lexington_18Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_10Mile_12-21-2015.pdf	12/21/2015	10	
ROSS	St Helens-Allston	StHelens_Allston_18_5Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_18Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_19Mile_12-21-2015.pdf	12/21/2015	19	
ROSS	St Helens-Allston	StHelens_Allston_6Mile_12-21-2015.pdf	12/21/2015	6	
ROSS	ST HELENS-ALLSTON-1	St Helen-Alston 15-6 mile - 2006.pdf	12/14/2006	15	6
ROSS	ST HELENS-ALLSTON-1	ST HELENS-ALLSTON-1 (15-6) 12-14-2006.pdf	12/14/2006	15	6
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens - 2006.pdf	11/3/2006		
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PCE)-1 (blank) 11-03-2006.pdf	11/3/2006		
ROSS	ST JOHNS-ST HELENS	StJohns_StHelens_15Mile_12-21-2015.pdf	12/21/2015	15	
ROSS	ST JOHNS-ST HELENS	StJohns_StHelens_19Mile_12-21-2015.pdf	12/21/2015	19	
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PCE)-1 (21-3) 12-14-2006.pdf	12/14/2006	21	3
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens 21-3 mile - 2006.pdf	12/14/2006	21	3
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PCE)-1 (4-2) 02-17-2006.pdf	2/17/2006	4	2
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens 4-2 mile - 2006.pdf	2/17/2006	4	2
ROSS	STJO_STHL_1_2021_01_13	TCO_OARSID_217268_m15_s2.pdf	1/13/2021	15	2
ROSS	STJO_STHL_1_2021_02_15	TCO_OARSID_217636_m9_s7.pdf	2/15/2021	9	7
ROSS	Troian-Allston-1	Troian_Alston_9Mile_12-21-2015.pdf	12/21/2015	9	
SALEM	BOYR_TILL_1	Boyer-Tillamook-1 2pgs (20-5) 9-13-2017.pdf	9/13/2017	20	5
SALEM	BOYR_TILL_1	BOYR-TLL-1_12.20.18.pdf	12/20/2018	29	3
SALEM	BOYR_TILL_1	BORY-TLL-1 (4-2) 12.7.2015.pdf	12/7/2015	4	2
SALEM	CARL_TILL_1	Carlton-Till 10-9 mile - 2006.pdf	12/14/2006	10	9
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (10-9) 12-14-2006.pdf	12/14/2006	10	9
SALEM	CARL_TILL_1	Carlton-Till btwn 11-6 and 11-7 mile - 2006.pdf	12/14/2006	11	6-7
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (11-6 to 11-7) 12-14-2006.pdf	12/14/2006	11	11/6 - 11/7
SALEM	CARL_TILL_1	Carlton-Tillamook 19-8 mile - 2005.pdf	11/5/2005	19	8
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (19-8) 11-05-2005.pdf	11/5/2005	19	8
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m11_s8.pdf	12/27/2022	11	8
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m15_s4.pdf	12/27/2022	15	4
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m15_s8.pdf	12/27/2022	15	8
SALEM	CARL_TILL_1_2024_12_26	TCO_OARSID_228682_m26_s2.pdf	12/26/2024	20	2

SALEM	FOREST GROVE-MCMINNVILLE-1	FOREST GROVE-MCMINNVILLE-1 (10-3 to 10-4) 09-24-2007.pdf	9/24/2007	10	10/3 - 10/4
SALEM	FOREST GROVE-MCMINNVILLE-1	Forst Grove-McMinn Tree Cut btwn 10-3 and 10-4 mile - 2007.pdf	9/24/2007	10	3-4
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1 (18-4) 12.12.15.pdf	12/12/2015	18	4
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1 (22-1) 10-23-2017.pdf	10/23/2017	22	1
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1 (22-9) 11-13-17.pdf	11/13/2017	22	9
SALEM	FORG_TILL_1_2022_12_27	TCO_OARSID_223481_m16_s5.pdf	12/27/2022	16	5
SALEM	FORG_TILL_1_2022_12_27	TCO_OARSID_223481_m22_s9.pdf	12/27/2022	22	9
SALEM	GRANDE RONDE-BOYER-1	Grand Ronde-Boyer 1-3 mile - 2006.pdf	11/12/2006	1	3
SALEM	GRANDE RONDE-BOYER-1	GRANDE RONDE-BOYER-1 (1-3) 11-12-2006.pdf	11/12/2006	1	3
SALEM	GRANDE RONDE-BOYER-1	Grand Ronde-Boyer 4-6 mile - 2006.pdf	11/12/2006	4	6
SALEM	GRANDE RONDE-BOYER-1	GRANDE RONDE-BOYER-1 (4-6) 12-14-2006.pdf	12/14/2006	4	6
SALEM	Jones Canyon-Sandiam-1	JSCB-SANT-1 (128-2) 4.14.16.pdf	4/14/2016	128	2
SALEM	Jones Canyon-Sandiam-1	JSCB-SANT-1 (125-2) 1-1-16.pdf	1/1/2016	25	2
SALEM	JSCB_SANT_1_2024_01_09	TCO_OARSID_225333_m133_s2.pdf	1/9/2024	133	2
SALEM	KEEL_ALSN_1_2024_8_17	TCO_OARSID_226869_m15_s1.pdf	8/17/2024	15	1
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook - 2007.pdf	2/27/2007	24	4
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (24-4) 02-27-2007.pdf	2/27/2007	24	4
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 29-6 mile - 2006.pdf	12/14/2006	29	6
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (29-6) 12-14-2006.pdf	12/14/2006	29	6
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 32-6 mile - 2006.pdf	12/14/2006	32	6
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (32-6) 12-14-2006.pdf	12/14/2006	32	6
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 45-11 mile - 2005.pdf	12/28/2005	45	11
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (45-11) 12-28-2005.pdf	12/28/2005	45	11
SALEM	SALEM-ALBANY-1	Salem-Albany 10-8 mile - 2005.pdf	10/14/2005	10	8
SALEM	SALEM-ALBANY-1	Salem-Albany btwn 10-4 and 10-5 - 2006.pdf	12/14/2006	10	4-5
SALEM	SALEM-ALBANY-1	SALEM-ALBANY-1 (10-4 to 10-5) 12-14-2006.pdf	12/14/2006	10	10/4 - 10/5
SALEM	SALEM-ALBANY-1	SALEM-ALBANY-1 (10-8) 10-14-2005.pdf	10/14/2005	10	8
SALEM	Timber Tap	Timber Tap 11-9 mile - 2006.pdf	12/14/2006	11	9
SALEM	Timber Tap	Timber Tap 2-6 mile - 2005.pdf	12/19/2005	2	6
SALEM	Timber Tap	Timber Tap 2-6 mile - 2006.pdf	2/4/2006	2	6
SALEM	Timber Tap	Timber Tap 2-7 mile - 2006.pdf	12/14/2006	2	7
SALEM	Timber Tap	Timber Tap 6-4 mile - 2006.pdf	12/14/2006	6	4
SALEM	Timber Tap	Timber Tap 9-9 mile - 2006.pdf	12/14/2006	9	9
SALEM	Timber Tap to Forest Grove-Tillamook-1	TIMBT-FOTI-1-(5-3) 12.22.2015.pdf	12/22/2015	5	3
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (11-9) 12-14-2006.pdf	12/14/2006	11	9
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-6) 02-04-2006.pdf	2/4/2006	2	6
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-6) 12-19-2005.pdf	12/19/2005	2	6
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-7) 12-14-2006.pdf	12/14/2006	2	7
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (5-3) 11-15-2010.pdf	11/15/2010	5	3
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (6-4) 12-14-2006.pdf	12/14/2006	6	4
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (9-9) 12-14-2006.pdf	12/14/2006	9	9
SALEM	Timber tap to the Keeler - Tillamook-1	Timber tap to the Keeler - Tillamook no.1 115kv - 2010.pdf	11/15/2010	5	3
SALEM	TIMBT_FOTI_1_2021_01_12	TCO_OARSID_217206_m16_s1.pdf	1/12/2021	16	1
SALEM	TIMBT_FOTI_1_2022_12_27	TCO_OARSID_223481_m4_s3.pdf	12/27/2022	4	3
SALEM	TIMBT_FOTI_1_2023_05_14	TCO_OARSID_224329_m7_s6.pdf	5/14/2023	7	6
SNOHOMISH	A-B-03-AN-11	A-B-03-AN-11 SCAN PACKET 02-16-2010.pdf	2/16/2010		
SNOHOMISH	CHJO_MONE_1	Chief Jo-Monroe (92-2) 1-11-2020.pdf	1/11/2020	92	2
SNOHOMISH	CHJO_SNOH_4	Chief Jo-Snohomish-4 (89-2) 1-14-2020.pdf	1/14/2020	89	2
SNOHOMISH	CHJO_SNOH_4_2022_11_05	TCO_OARSID_223172_m101_s2.pdf	11/5/2022	101	2
SNOHOMISH	Email to Steve Narolski re Jim Creek 115kv line	FW Jim Creek 115KV line restoration - 2010.pdf	11/18/2010		
SNOHOMISH	Jim Creek Service 1	JimCr_TCO_Rept - 2009.pdf	5/12/2009	7	1-2
SNOHOMISH	MONE_CUST_1	MONROE-CUSTER-1 (20-2) 05-03-2010.pdf	5/3/2010	20	2
SNOHOMISH	MONE_CUST_1	Monroe-Custer-1 (52-3) 6-1-2016.pdf	6/1/2016	52	3
SNOHOMISH	MONE_NOVH_1_2021_01_13	TCO_OARSID_217230_m11_s2.pdf	1/13/2021	11	2

SNOHOMISH	MURY_CUST_1	Murray-Custer (24-8) 11-15-2006.pdf	11/15/2006	24	8
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (24-8) 11-15-2006.pdf	11/15/2006	24	8
SNOHOMISH	MURY_CUST_1	Murray-Custer (3-5) 11-15-2010.pdf	11/15/2010	3	6
SNOHOMISH	MURY_CUST_1	Murray-Custer (3-7) 11-27-2006.pdf	11/27/2006	3	7
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (3-6) 11-15-2010.pdf	11/15/2010	3	6
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (3-7) 11-27-2006.pdf	11/27/2006	3	7
SNOHOMISH	MURY_CUST_1_2021_11_15	TCO_OARSID_220737_m3_s8.pdf	11/15/2021	3	8
SNOHOMISH	SNOH_MURY_1	Snohomish-Murray-1 (13-7,13-7,16-1) 11-17-2015.pdf	11/17/2015	11/7, 13/7, 16/1	11/7, 13/7, 16/1
SNOHOMISH	SNOH_MURY_1	Snohomish-Murray-1 (13-8) 2-20-2018.pdf	2/20/2018	13	8
SNOHOMISH	SNOH_MURY_1_2021_01_13	TCO_OARSID_217280_m13_s5.pdf	1/13/2021	13	6
SNOHOMISH	SNOH_MURY_1_2022_11_25	TCO_OARSID_223266_m5_s2.pdf	11/25/2022	5	2
SPOKANE	BELL_BOUN_3	Bell-Boundary-3 (77-9) 9-30-2006.pdf	9/30/2006	77	9
SPOKANE	BELL_BOUN_3	Bell-Boundary-3 (92-1) 10-21-2017.pdf	10/21/2017	92	1
SPOKANE	BELL_BOUN_3_2021_01_12	TCO_OARSID_217178_m91_s5.pdf	1/12/2021	91	5
SPOKANE	BELL_BOUN_3_2023_3_28	TCO_OARSID_224090_m78_s1.pdf	3/28/2023	78	1
SPOKANE	BELL_BOUN_3_2024_01_09	TCO_OARSID_225338_m77_s3.pdf	1/9/2024	77	3
SPOKANE	BELL_BOUN_3_2024_11_21	TCO_OARSID_228353_m77_s5.pdf	11/21/2024	77	5
SPOKANE	BELL_BOUN_3_2024_11_21	TCO_OARSID_228355_m77_s5.pdf	11/21/2024	77	5
SPOKANE	BOUN_SACH_1_2024_11_17	TCO_OARSID_228243_m25_s3.pdf	11/17/2024	25	3
SPOKANE	BOUN_SACH_1_2024_11_17	TCO_OARSID_228242_m25_s3.pdf	11/17/2024	25	3
SPOKANE	COLV_BOUN_1	Colville-Boundary 1 Tree Caused Outage reported 24 Sept 2018.pdf	9/23/2018	1	3
SPOKANE	COLV_BOUN_1_2024_08_23	TCO_OARSID_226977_m01_s07.pdf	8/23/2024	7	7
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (25-6) 7-31-2020.pdf	7/31/2020	25	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (25-6) 3-2-2018.pdf	3/2/2018	25	6
SPOKANE	COLV_REPU_1	Colville-Republic 26-6 mile - 2006.pdf	8/8/2006	26	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (26-6) 08-08-2006.pdf	8/8/2006	26	6
SPOKANE	COLV_REPU_1	Colville-Republic-1 (30-6) 9-30-2019.pdf	9/30/2019	30	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC NO 1 (33-4) 10-17-2012.pdf	10/17/2012	33	4
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (33-4) 10-17-2012.pdf	10/17/2012	33	4
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC NO 1 (38-1to38-2) 9-15-2012.pdf	9/15/2012	38	38/1 - 38/2
SPOKANE	COLV_REPU_1_2021_03_29	TCO_OARSID_218025_m25_s7.pdf	3/29/2021	29	7
SPOKANE	COLV_REPU_1_2023_11_06	TCO_OARSID_225105_m35_s1.pdf	11/6/2023	35	1
SPOKANE	Libby-Troy	Libby-Troy 26-5 mile - 2007.pdf	8/31/2007	26	5
SPOKANE	LIBY_BOFE_1	Libby-Bonners Ferry 26-2 mile - 2005.pdf	11/5/2005	26	2
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (26-2) 11-05-2005.pdf	11/5/2005	26	2
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (26-5) 08-31-2007.pdf	8/31/2007	26	5
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (46-7) 7-24-2019.pdf	7/24/2019	46	7
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (51-5) 1-9-2018.pdf	1/9/2018	51	5
SPOKANE	LIBY_BOFE_1_2021_11_15	TCO_OARSID_220775_m35_s6.pdf	11/15/2021	35	6
SPOKANE	LIBY_BOFE_1_2021_11_15	TCO_OARSID_220801_m41_s3.pdf	11/15/2021	41	3
SPOKANE	LIBY_BOFE_1_2024_05_11	TCO_OARSID_226412_m43_s5.pdf	5/11/2024	43	5
SPOKANE	SDCK_BOFE_1&2_2022_08_31	TCO_OARSID_222936_m16_s2.pdf	8/31/2022	10	2
SPOKANE	SDCK_BOFE_1&2_2024_09_25	TCO_OARSID_227400_m14_s1.pdf	9/25/2024	14	1
SPOKANE	SPIRT_CCBO_1_2020_12_22	TCO_OARSID_122220_m1_s8.pdf	12/22/2020	1	8
SPOKANE	SPIRT_CCBO_1_2025_04_16	TCO_OARSID_229669_m1_s4.pdf	4/16/2025	1	4
SPOKANE	TAFT_BELL_1_2021_01_13	TCO_OARSID_217308_m38_s3.pdf	1/13/2021	38	3
SPOKANE	TAFT_BELL_1_2021_11_15	TCO_OARSID_220822_m38_s3.pdf	11/15/2021	38	3
THE DALLES	BOPH_HORV_1	Bonneville - Hood River - 2012.pdf	12/30/2011	2	5
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER (2-5) 12-30-2011.pdf	12/30/2011	2	5
THE DALLES	BOPH_HORV_1	Bonneville - Hood River (20-2) 12-9-2015 tree outage.pdf	12/9/2015	20	2
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER (3-1 to 3-2) 11-27-2010.pdf	11/27/2010	3	3/1 - 3/2
THE DALLES	BOPH_HORV_1	Bonneville-Hood River 5-7 - 2015.pdf	11/17/2015	5	7
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER-1 (6-9) 07-09-2006.pdf	7/9/2006	6	9
THE DALLES	BOPH_HORV_1	Bonn-HR 6-9 mile - 2006.pdf	9/7/2006	6	9

THE DALLES	BOPH_HORV_1	BH-(7-2) 12-22-2015 tree outage wPics.pdf	12/22/2015	7	2
THE DALLES	BOPH_HORV_1	BONNEVILLE-ROOD RIVER-1 (8-6) 12-18-2012.pdf	12/18/2012	8	5
THE DALLES	BOPH_HORV_1	BH-(9-1) 12-22-2015 tree outage wPic.pdf	12/22/2015	9	1
THE DALLES	CALKT_BOHD_1_2024_1_14	TCO_OARSID_224496_m9_s8.pdf	1/11/2024	9	8
THE DALLES	KNIT_OSTD_1_2021_13_02	TCO_OARSID_217600_m41_s3.pdf	2/13/2021	47	3
THE DALLES	KNIT_OSTD_1_2022_1_3	TCO_OARSID_221312_m72_s2.pdf	1/3/2022	72	2
THE DALLES	KNIT_OSTD_1_2024_1_13	TCO_OARSID_225446_m78_s2.pdf	1/13/2024	78	2
THE DALLES	KNIT_OSTD_1_2025_02_25	TCO_OARSID_229089_m48_s4.pdf	2/25/2025	48	4
THE DALLES	NBON_MIDW_1	NORTH BONNEVILLE-MIDWAY-1 (25-3) 12-17-2012.pdf	12/17/2012	25	3
THE DALLES	NBON_MIDW_1_2021_12_31	TCO_OARSID_221256_m34_s6.pdf	12/31/2021	34	6
THE DALLES	NBON_MIDW_1_2024_01_19	TCO_OARSID_225623_m34_s6.pdf	1/19/2024	34	6
THE DALLES	NBON_MIDW_1_2024_01_21	TCO_OARSID_225653_m34_s6.pdf	1/21/2024	34	6
THE DALLES	NBON_MIDW_1_2024_01_21	TCO_OARSID_225644_m34_s6.pdf	1/21/2024	34	6
THE DALLES	NBON_MIDW_1_2024_1_12	TCO_OARSID_225408_m14_s1.pdf	1/12/2024	14	1
THE DALLES	NBON_MIDW_1_2024_1_13	TCO_OARSID_225429_m14_s1.pdf	1/13/2024	14	1
TRI-CITIES	ROUN_LAGD_1	Roundup - La Grande-1 (13-7) 4-7-2017.pdf	4/7/2017	13	7
WENATCHEE	KELLT_GOOK_2_2022_06_03	TCO_OARSID_222476_M20_s4.pdf	6/3/2022	20	4
WENATCHEE	SHUL_ECOL_1	Schultz-Echo Lake 80-3 mile - 2006.pdf	7/10/2006	80	3

District	Title	Name	Date of Outage	Mile	Structure
COVINGTON	COVI_BTRD_1_2021_11_8	TCO_OARSID_220670_m9_s4.pdf	11/8/2021	9	4
COVINGTON	COVI_CRET_1	COVINGTON-CRESTON-1 (5-5) 12-17-2012.pdf	12/17/2012	5	5
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m14_s4.pdf	11/19/2024	14	4
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m15_s5.pdf	11/19/2024	15	5
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228282_m23_s1.pdf	11/19/2024	23	1
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228279_m3_s4.pdf	11/19/2024	3	4
COVINGTON	COVI_MPLV_2_2024_11_19	TCO_OARSID_228279_m7_s2.pdf	11/19/2024	7	2
COVINGTON	ECOL_MONE_1	EchoLake-Monroe_1 (12-2) 12-9-2015 Tree outage.pdf	12/9/2015	12	2
COVINGTON	MTSI_TANN_1_2024_11_19	TCO_OARSID_228295_m2_s5.pdf	11/19/2024	2	5
COVINGTON	OLYM_GCOU_1	Olympia-Grand Coulee-1 (68-1) 1-23-2020.pdf	1/23/2020	68	1
COVINGTON	OLYM_GCOU_1_2021_12_30	TCO_OARSID_221244_m67_s3.pdf	12/30/2021	67	3
COVINGTON	OLYM_GCOU_1_2022_12_22	TCO_OARSID_223391_m67_s3.pdf	12/22/2022	67	3
COVINGTON	RAVE_PAUL_1	RAVE-PAUL (6-4) 7-29-2019.pdf	7/29/2019	6	4
COVINGTON	RAVE_PAUL_1_2023_01_05	TCO_OARSID_223548_m14_s2.pdf	1/5/2023	14	2
COVINGTON	RKYR_MPLV_1	ROCKY REACH-MAPLE VALLEY-1 (119-1) 12-18-2010.pdf	12/18/2010	119	1
COVINGTON	RKYR_MPLV_1	RR-MPL1-119 1 12-20-2010 Photo.pdf	12/20/2010	119	1
COVINGTON	RKYR_MPLV_1	Rocky Reach-MV 120-5 mile - 2006.pdf	12/14/2006	120	5
COVINGTON	RKYR_MPLV_1	RR-MPLV outage - 2010.pdf	12/18/2010	199	1
COVINGTON	ROCK_SERV	Rockdale 15kV (1-1 to 1-2) 12-17-2015.pdf	12/17/2015	1	1/1 to 1/2
COVINGTON	SAMH_MPLV_1_2022_12_23	TCO_OARSID_223458_m9_s2.pdf	12/23/2022	9	2
COVINGTON	SAMH_MPLV_1_2024_02_03	TCO_OARSID_225714_m13_s2.pdf	2/3/2024	13	2
COVINGTON	SAMH_MPLV_1_2024_11_19	TCO_OARSID_228282_m13_s4.pdf	11/19/2024	13	4
COVINGTON	STAC_SOWS_1_2025_04_10	TCO_OARSID_229510_m1_s3.pdf	4/10/2025	1	3
COVINGTON	STCR_STAC_1_2021_9_17	TCO_OARSID_219998_m15_s1.pdf	9/17/2021	15	1
EUGENE	LOPH_LKPT_1_2024_12_26	TCO_OARSID_228728_m0_s1.pdf	12/26/2024	0	1
EUGENE	ADDY_CUSI_1_2021_01_12	TCO_OARSID_217330_m23_s2.pdf	1/12/2021	23	2
EUGENE	ADDY_CUSI_1_2025_01_05	TCO_OARSID_228784_m15_s3.pdf	1/5/2025	15	3
EUGENE	ALFL_SDCK_1_2021_11_15	TCO_OARSID_220756_m4_s3.pdf	11/15/2021	4	3
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (16-7) 03-12-2012.pdf	3/12/2012	16	7
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (17-7) 12-20-2012.pdf	12/20/2012	17	7
EUGENE	ALVY_FAVW_1	Alvey-Fairview-1 (17-5 to 58-1) 2-25-19 Snow storm.pdf	2/25/2019	17/5 to	58/1
EUGENE	ALVY_FAVW_1	ALVY-FAVW (18-6) 2-18-2014.pdf	2/18/2014	18	6
EUGENE	ALVY_FAVW_1	ALVY-FAVW (29-2) Outage Report 1-16-16.pdf	1/16/2016	29	2
EUGENE	ALVY_FAVW_1	Alvey-Fairview A-R (64-1) 12-17-2012.pdf	12/17/2012	64	1
EUGENE	ALVY_FAVW_1	ALVEY-FAIRVIEW-1 (64-1) 12-17-2012.pdf	12/17/2012	64	1
EUGENE	ALVY_FAVW_1_2024_01_13	TCO_OARSID_225480_m21_s4.pdf	1/13/2024	21	4
EUGENE	ALVY_FAVW_1_2024_01_16	TCO_OARSID_225569_m12_s6.pdf	1/16/2024	12	6
EUGENE	ALVY_LANE_1	Alvy-Lane 8-1 TCO - 2010.pdf	1/18/2010	8	1
EUGENE	BAND_ROGE_1_2021_7_23	TCO_OARSID_219319_m34_s1.pdf	7/23/2021	34	1
EUGENE	BLRIT_CUHO_1_2021_01_13	TCO_OARSID_217274_m1_s2.pdf	1/13/2021	1	2
EUGENE	Cougar-Holden Creek-1	Cougar-Holden Creek-1 (1-6 to 30-3) 2-25-19 Snow storm.pdf	2/25/2019	1/6 to	30/3
EUGENE	Cougar-Holden Creek-1	Cougar-Holden Creek-1 (18-8) 2-4-2019.pdf	2/4/2019	18	8
EUGENE	CUGR_HOLD_1_2021_02_15	TCO_OARSID_217635_m5_s4.pdf	2/15/2021	5	4
EUGENE	CUGR_HOLD_1_2024_01_09	TCO_OARSID_225367_m2_s4.pdf	1/9/2024	2	4
EUGENE	CUGR_HOLD_1_2024_01_09	TCO_OARSID_225371_m2_s1.pdf	1/9/2024	2	1
EUGENE	CUGR_HOLD_1_2024_01_09	TCO_OARSID_225372_m2_s4.pdf	1/9/2024	2	4
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (10-6) 12-14-2006.pdf	12/14/2006	10	6
EUGENE	CUGR_THUR_1	Cougar-Thurston 10-6 mile - 2006.pdf	12/14/2006	10	6
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (16-1) 12-14-2006.pdf	12/14/2006	16	1
EUGENE	CUGR_THUR_1	Cougar-Thurston 16-1 mile - 2006.pdf	12/14/2006	16	1
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (19-2) 12-14-2006.pdf	12/14/2006	19	2
EUGENE	CUGR_THUR_1	Cougar-Thurston 19-2 mile - 2006.pdf	12/14/2006	19	2
EUGENE	CUGR_THUR_1	COUGAR-THURSTON (EWEB)-1 (2-3) 03-13-2011.pdf	3/13/2011	2	3
EUGENE	CUGR_THUR_1	Cougar-Thurston 1 (5-3) 12-21-2015 with Photos.pdf	12/21/2015	5	3
EUGENE	Dexter Tap to Lookout Point-Alvey	Dexter Tap 1-5 mile - 2006.pdf	12/14/2006	1	5
EUGENE	Dexter Tap to Lookout Point-Alvey	DEXTER TAP TO LP-A-1 (1-5) 12-14-2006.pdf	12/14/2006	1	5
EUGENE	Dorena Tap	Dorena Tap (3-1 to 5-2) 2-25-19 Snow storm.pdf	2/25/2019	3/1 to	5/2
EUGENE	Dorena Tap to Alvey-Martin Creek No 1	Dorena Tap to Alvey-Martin Creek (2-4) 2-20-2017.pdf	2/20/2017	2	4
EUGENE	Dorena Tap to Alvey-Martin Creek No 1	Dorena Tap to Alvey-Martin Creek 4-5_12-15-16.pdf	12/14/2016	4	5
EUGENE	DORENA TAP TO ALVEY-MARTIN CREEK-1	DORENA TAP TO ALVEY-MARTIN CREEK NO 1 (4-4) 2-8-2014.pdf	2/8/2014	4	4
EUGENE	DORET_ALMN_1_2024_01_14	TCO_OARSID_225481_m2_s2.pdf	1/14/2024	2	2
EUGENE	DORET_ALMN_1_2024_01_14	TCO_OARSID_225492_m4_s4.pdf	1/14/2024	4	2
EUGENE	DORET_ALMN_1_2024_01_14	TCO_OARSID_225493_m4_s5.pdf	1/14/2024	4	5
EUGENE	DORET_ALMN_1_2024_07_26	TCO_OARSID_226645_m2_s8.pdf	7/26/2024	2	8
EUGENE	EUGENE-ALDERWOOD	Eugene-Alderwood (16-16) 9-21-2019.pdf	9/21/2019	16	16
EUGENE	FAIRVIEW-BANDON-1	FAIRVIEW-BANDON-1 (8-5) 03-13-2012.pdf	3/13/2012	8	5
EUGENE	FAIRVIEW-ROGUE-1	FAIRVIEW-ROGUE NO 1 (57-2) 1-16-2014.pdf	1/16/2014	57	2
EUGENE	Foster Tap	Foster Tap to Green Peter-Lebanon.PDF	11/5/2016	2	5
EUGENE	GRPT_LEBA_1_2021_01_13	TCO_OARSID_217273_m2_s3.pdf	1/13/2021	2	3
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-1) 11-05-2005.pdf	11/5/2005	17	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-2) 01-29-2006.pdf	1/29/2006	17	2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (17-2) 4-7-2017.pdf	4/7/2017	17	2
EUGENE	Hills Creek-Lookout Point-1	Hills Creek-Lookout Point-1 (17-7) 12-25-2018.pdf	12/25/2018	17	7
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 17-1 mile - 2005.pdf	11/5/2005	17	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 17-3 mile - 2006.pdf	1/29/2006	17	3
EUGENE	Hills Creek-Lookout Point-1	Hills Creek-Lookout Point-1 (2-1 to 24-8) 2-25-19 Snow storm.pdf	2/25/2019	2/1 to	24/8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (20-8) 12-28-2011.pdf	12/28/2001	20	8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point 21-5 mile - 2006.pdf	12/14/2006	21	5
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT NO 1 (21-1) 12-20-2012.pdf	12/20/2012	21	1

EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (21-1) 12-20-2012.pdf	12/20/2012	21	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (21-5) 12-14-2006.pdf	12/14/2006	21	5
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (22-1) 2-20-2017.pdf	2/20/2017	22	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (22-3) 03-13-2011.pdf	3/13/2011	22	3
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point No 1 115kv - 2010.pdf	11/23/2010	23	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (23-1) 11-23-2010.pdf	11/23/2010	23	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (24-7) 03-13-2011.pdf	3/13/2011	24	7
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creel-Lookout Point (24-4) 12-14-2018.pdf	12/14/2018	24	4
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (25-1) 02-04-2006.pdf	2/4/2006	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (25-1) 03-13-2011.pdf	3/13/2011	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point-1 (25-8) 6-15-2018.pdf	6/15/2018	25	8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 25-1 mile - 2006.pdf	2/4/2006	25	1
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (26-2) 4-7-2017.pdf	4/7/2017	26	2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (3-1 to 3-2) 03-21-2012.pdf	3/21/2012	3	3/1 - 3/2
EUGENE	HILLS CREEK-LOOKOUT POINT-1	Hills Creek-Lookout Point btwn 9-7 and 9-8 - 2006.pdf	12/13/2006	9	7 & 8
EUGENE	HILLS CREEK-LOOKOUT POINT-1	HILLS CREEK-LOOKOUT POINT-1 (9-7 to 9-8) 12-13-2006.pdf	12/13/2006	9	9/7 - 9/8
EUGENE	Hils Creek-Lookout Point-1	Hils Creek-Lookout Point-1 (21-7) 8-22-19.pdf	8/22/2019	21	7
EUGENE	HLCK_LKPT_1_2021_12_30	TCO_OARSID_221250_m8_s5.pdf	12/30/2021	8	5
EUGENE	HLSC_LKPT_1_2024_02_26	TCO_OARSID_225926_m17_s5.pdf	2/26/2024	17	5
EUGENE	HLSC_LKPT_1_2024_11_17	TCO_OARSID_228248_m21_s8.pdf	11/17/2024	21	8
EUGENE	HLSC_LKPT_1_2024_12_31	TCO_OARSID_228743_m14_s6.pdf	12/31/2024	14	6
EUGENE	LANE_WEND_1_2024_01_09	TCO_OARSID_225329_m28_s5.pdf	1/9/2024	28	5
EUGENE	LANE_WEND_1_2024_01_09	TCO_OARSID_225329_m29_s1.pdf	1/9/2024	29	1
EUGENE	LANE_WEND_1_2024_01_13	TCO_OARSID_225440_m28_s7.pdf	1/13/2024	28	7
EUGENE	LANE_WEND_1_2024_01_13	TCO_OARSID_225440_m31_s4.pdf	1/13/2024	31	4
EUGENE	LANE_WEND_1_2024_11_15	TCO_OARSID_228202_m16_s5.pdf	11/15/2024	16	5
EUGENE	LANE_WEND_2_2022_12_27	TCO_OARSID_223489_m29_s1.pdf	12/27/2022	29	1
EUGENE	LANE_WEND_2_2022_12_27	TCO_OARSID_223495_m29_s1.pdf	12/27/2022	29	1
EUGENE	LANE_WEND_2_2024_01_13	TCO_OARSID_225472_m22_s2.pdf	1/13/2024	22	2
EUGENE	LANE-WENDSON-1	Lane-Wend 12-6 mile TCO - 2010.pdf	1/19/2010	12	6
EUGENE	LANE-WENDSON-1	Lane-Wendson 1 7361 (29-1) 03-13-16.pdf	3/13/2016	29	1
EUGENE	LANE-WENDSON-1	Lane-Wendson-1 (30-3) 7361 03-13-16.pdf	3/13/2016	30	3
EUGENE	LANE-WENDSON-2	LANE-WENDSON NO 2 (18-2) 2-8-2014.pdf	2/8/2014	18	2
EUGENE	LKPT_ALVY_1_2022-01-13	TCO_OARSID_221490_m4_s6.pdf	1/13/2022	4	6
EUGENE	LOOKOUT POINT-ALVEY-2	Lookout Point-Alvey-2 (3-10) 9-21-2019.pdf	9/21/2019	3	10
EUGENE	Marion Lane	Marion Lane Mi 30 map.pdf	12/29/2008	30	1 & 2
EUGENE	MARN_ALVY_1_2023_09_24	TCO_OARSID_224986_m41_s2.pdf	9/24/2023	41	2
EUGENE	MARN_ALVY_1_2024_01_09	TCO_OARSID_225336_m50_s4.pdf	1/9/2024	50	4
EUGENE	MARN_ALVY_1_2024_01_14	TCO_OARSID_225542_m61_s2.pdf	1/14/2024	61	2
EUGENE	Martin Creek-Drain-1	Martin Creek-Drain-1 (3-3, 7-8, 10-6) 2-25-19 Snow storm.pdf	2/25/2019	3/3 to	10/6
EUGENE	MARTIN CREEK-DRAIN-1	Martin Ck-Drain 9-1 mile - 2006.pdf	2/3/2006	9	1
EUGENE	MARTIN CREEK-DRAIN-1	Martin Creek-Drain 9-1 mile - 2006.pdf	12/14/2006	9	1
EUGENE	MARTIN CREEK-DRAIN-1	MARTIN CREEK-DRAIN-1 (9-1) 02-03-2006.pdf	2/3/2006	9	1
EUGENE	MARTIN CREEK-DRAIN-1	MARTIN CREEK-DRAIN-1 (9-1) 12-14-2006.pdf	12/14/2006	9	1
EUGENE	RAINBOW VALLEY TAP TO L-W-1	RAINBOW VALLEY TAP TO L-W-1 (3-9) 03-21-2012.pdf	3/21/2012	3	9
EUGENE	REEDSPORT-FAIRVIEW	Reedsport-Fairview (38-6) 4-13-2016.pdf	4/13/2016	38	6
EUGENE	REEDSPORT-FAIRVIEW DOG LEG	REEDSPORT-FAIRVIEW DOG LEG (8-5) 03-13-2011.pdf	3/13/2011	8	5
EUGENE	REST_FAVW_2_2024_03_10	TCO_OARSID_226018_m24_s3.pdf	3/10/2024	24	3
EUGENE	RESTON-FAIRVIEW-2	RESTON-FAIRVIEW-2 (23-4) 11-12-2006.pdf	11/12/2006	23	4
EUGENE	RESTON-FAIRVIEW-2	Reston-Fairview2 23-4 mile - 2006.pdf	11/12/2006	23	4
EUGENE	SANT_ALVY_1_2025_02_24	TCO_OARSID_229043_m52_s3.pdf	2/24/2025	52	3
EUGENE	SANT_ALVY_2_2021_01_13	TCO_OARSID_217264_m28_s3.pdf	1/13/2021	28	3
EUGENE	SANT_ALVY_2_2022_07_10	TCO_OARSID_222578_m39_s2.pdf	7/10/2022	39	2
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m36_s6.pdf	1/14/2024	36	6
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m38_s4.pdf	1/14/2024	38	4
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m38_s6.pdf	1/14/2024	38	6
EUGENE	SANT_ALVY_2_2024_01_14	TCO_OARSID_225501_m60_s1.pdf	1/14/2024	60	1
EUGENE	SANT_TOLE_1_2023_06_20	TCO_OARSID_224611_m49_s6.pdf	6/20/2023	49	6
EUGENE	SANT_TOLE_1_2025_02_24	TCO_OARSID_229055_m55_s1.pdf	2/24/2025	55	1
EUGENE	SANT_TOLE_1_2025_02_24	TCO_OARSID_229049_m55_s1.pdf	2/24/2025	55	1
EUGENE	SANT_TOLE_2022_07_02	TCO_OARSID_222487_m53_s2.pdf	7/2/2022	53	2
EUGENE	SANTIAM-ALVEY-1	Santiam-Alvey 27-3 mile - 2006.pdf	12/14/2006	27	3
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1 (27-3) 12-14-2006.pdf	12/14/2006	27	3
EUGENE	SANTIAM-ALVEY-1	Santiam-Alvey 28-1 mile - 2006.pdf	12/14/2006	28	1
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1 (28-1) 12-14-2006.pdf	12/14/2006	28	1
EUGENE	SANTIAM-ALVEY-1	SANTIAM-ALVEY-1-2 (34-4) 03-21-2012.pdf	3/21/2012	34	4
EUGENE	Santiam-Alvey-1 & 2	Santiam-Alvey-1n2 (36-6) 2-25-19 Snow storm.pdf	2/25/2019	36	6
EUGENE	SANTIAM-TOLEDO-1	Santiam-Toledo 49-4 mile - 2006.pdf	12/14/2006	49	4
EUGENE	SANTIAM-TOLEDO-1	SANTIAM-TOLEDO-1 (49-4) 12-14-2006.pdf	12/14/2006	49	4
EUGENE	SANTIAM-TOLEDO-1	Santiam-Toledo-1 (52-2) 12-16-2012.pdf	12/16/2012	52	2
EUGENE	TCO_OARSID_225979_m39_s3	TCO_OARSID_225979_m39_s3.pdf	3/2/2024	39	3
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s4.pdf	1/14/2024	4	4
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s1.pdf	1/14/2024	4	1
EUGENE	THUR_MCKZ_2_2024_01_14	TCO_OARSID_225537_m4_s5.pdf	1/14/2024	4	5
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (2-2) 9-13-2020.pdf	9/7/2020	2	2
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (2-5) 9-13-2020.pdf	9/7/2020	2	5
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (5-2) 9-13-2020.pdf	9/7/2020	5	2
EUGENE	Thurston-Holden Creek	Thurston-Holden Creek (6-1) 9-13-2020.pdf	9/7/2020	6	1
EUGENE	TOLE_WEND_1_2020_11_13	TCO_OARSID_216712_m41_s5.pdf	11/13/2020	41	5
EUGENE	TOLE_WEND_1_2022_12_28	TCO_OARSID_223506_m37_s2.pdf	12/28/2022	37	2

EUGENE	TOLE_WEND_1_2024_03_02	TCO_OARSID_225978_m39_s3.pdf	3/2/2024	39	3
EUGENE	TOLEDO-WENDSON-1	Toledo-Wendson 23-1 mile - 2006.pdf	1/10/2006	23	1
EUGENE	TOLEDO-WENDSON-1	TOLEDO-WENDSON-1 (23-1) 01-10-2006.pdf	1/10/2006	23	1
EUGENE	TOLEDO-WENDSON-1	TOLEDO-WENDSON-1 (41-5) 03-20-2013.pdf	3/20/2013	41	5
IDAHO FALLS	PRRVT_AFSD_1	Priest River Tap to Albeni Falls-Sand Creek No 1 (1-10) 8-18-2016.pdf	8/18/2016	1	10
IDAHO FALLS	PRRVT_AFSD_1	Priest River Tap - Albeni Falls Sand Creek (12-2) 05-20-2019.pdf	5/20/2019	2	12
IDAHO FALLS	PRRVT_AFSD_1	Priest River Wind Report 5-20-19.pdf	5/20/2019	2	12
IDAHO FALLS	PRRVT_AFSD_1_2021_04_18	TCO_OARSID_218250_m3_s1.pdf	4/18/2021	3	1
IDAHO FALLS	PRRVT_AFSD_1_2022_11_4	TCO_OARSID_223207_m2_s1.pdf	11/4/2022	2	1
IDAHO FALLS	PRRVT_AFSD_1_2024_09_25	TCO_OARSID_227384_m1_s15.pdf	9/25/2024	1	15
IDAHO FALLS	PRRVT_AFSD_1_2024_09_25	TCO_OARSID_227384_m1_s3.pdf	9/25/2024	1	3
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_23-8.pdf	5/31/2020	23	8
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_28-5.pdf	5/31/2020	28	5
KALISPELL	COFL_TREG_1	Columbia Falls - Trego (39-8) 6-24-2018.pdf	6/24/2018	39	8
KALISPELL	COFL_TREG_1	Outage_COFL-TREG-1_9-4.pdf	5/31/2020	9	4
KALISPELL	COFL_TREG_1_2023_06_24)	TCO_OARSID_224627_m18_s2.pdf	6/24/2023	18/2	18/3
KALISPELL	COFL_TREG_1_2024_08_23	TCO_OARSID_226970_m23_s3.pdf	8/23/2024	23	3
KALISPELL	COFL_TREGO_1_2024_11_30	TCO_OARSID_228416_m24_s4.pdf	11/30/2024	24	4
KALISPELL	HOTS_RATL_1_2024_08_10	TCO_OARSID_226750_m47_s7.pdf	8/10/2024	47	7
KALISPELL	HOTS_RATL_1_2024_08_10	TCO_OARSID_226747_m47_s7.pdf	8/10/2024	47	7
KALISPELL	LANC_NOXN_1_2021_04_18	TCO_OARSID_218241_m64_s1.pdf	4/18/2021	64	1
KALISPELL	NOXH_HOTS_1_2021_01_13	TCO_OARSID_217309_m10_s1.pdf	1/13/2021	10	1
LONGVIEW	BOPH_NCAM_1_2024_01_13	TCO_OARSID_225471_m16_s7.pdf	1/13/2024	16	7
LONGVIEW	BOPH_NCAM_1_2024_01_20	TCO_OARSID_225642_m18_s3.pdf	1/20/2024	18	3
LONGVIEW	ROSS_ALCOA_3_2024_11_01	TCO_OARSID_228054_m4_s3.pdf	11/1/2024	4	3
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield 10-8 mile - 2006.pdf	11/13/2006	10	8
OLYMPIA	CHEH_MASY_1	CHEHALIS-MAYFIELD-1 (10-8) 11-13-2006.pdf	11/13/2006	10	8
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield mi 3 TCO - 2009.pdf	3/13/2009	3	4
OLYMPIA	CHEH_MASY_1	Chehalis-Mayfield1_Mi03 map.pdf	3/15/2009	3	4
OLYMPIA	CHEH_MASY_1_2021_02_13	TCO_OARSID_217567_m19_s6.pdf	2/13/2021	19	6
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA (10-1) 10-20-2011.pdf	10/20/2011	10	1
OLYMPIA	CHEH_OLYM_1	Chehalis-Olympia-1 (18-8) 1-6-2019.pdf	1/6/2019	18	8
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 19-8 map.pdf		19	8
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 19-8 b map.pdf		19	8
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (28-10) 01-06-2007.pdf	1/6/2007	20	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Olympia-1 (23-4) 11-2-2013.pdf	11/2/2013	23	4
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 26-6 mile - 2006.pdf	2/17/2006	26	6
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (26-6) 02-17-2006.pdf	2/17/2006	26	6
OLYMPIA	CHEH_OLYM_1	CHEH-OLYM 1 230kV (26-9) 11-17-2015.pdf	11/17/2015	26	9
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 27-1 mile - 2006.pdf	12/14/2006	27	1
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (27-1) 12-14-2006.pdf	12/14/2006	27	1
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 28-10 mile - 2006.pdf	12/14/2006	28	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 28-10 mile - 2007.pdf	1/6/2007	28	10
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (28-10) 12-14-2006.pdf	12/14/2006	28	10
OLYMPIA	CHEH_OLYM_1	Chehalis-Oly 3-5 mile - 2006.pdf	12/14/2006	3	5
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (3-5) 12-14-2006.pdf	12/14/2006	3	5
OLYMPIA	CHEH_OLYM_1	CHEHALIS-OLYMPIA-1 (9-9) 11-13-2006.pdf	11/13/2006	9	9
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond (10-1) 12-12-2015.pdf	12/12/2015	10	1
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond No. 1 - 2012.pdf	1/19/2012	14	6 &7
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond btwn 15-2 and 15-4 mile - 2006.pdf	12/14/2006	15	3 & 4
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (15-3 to 15-4) 12-14-2006.pdf	12/14/2006	15	15/3 - 15/4
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 17-1 mile - 2006.pdf	12/14/2006	17	1
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (17-1) 12-14-2006.pdf	12/14/2006	17	1
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 19-9 mile - 2006.pdf	2/3/2006	19	9
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (19-9) 02-03-2006.pdf	2/3/2006	19	9
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 21-8 mile - 2006.pdf	12/14/2006	21	8
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (21-8) 12-14-2006.pdf	12/14/2006	21	8
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND (25-1) 12-19-2019.pdf	12/19/2019	25	1
OLYMPIA	CHEH_RAYM_1	Cheh-Raym (29-2) 8-29-15.pdf	8/29/2015	29	2
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 30-9 mile - 2006.pdf	12/14/2006	30	9
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (30-9) 12-14-2006.pdf	12/14/2006	30	9
OLYMPIA	CHEH_RAYM_1	CHEH-RAYM (32-6 to 32-8) 1-11-2014.pdf	1/11/2014	32	32/6 - 32/8
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (36-2) 11-19-2012.pdf	11/19/2012	36	2
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond-1 (36-4) 10-14-2016.pdf	10/14/2016	36	4
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 41-6 Mile - 2006.pdf	2/3/2006	41	6
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (41-6) 02-03-2006.pdf	2/3/2006	41	6
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 45-11 mile - 2006.pdf	2/3/2006	45	11
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (45-11) 02-03-2006.pdf	2/3/2006	45	11
OLYMPIA	CHEH_RAYM_1	Chehalis-Raymond 7-6 mile - 2006.pdf	3/8/2006	7	6
OLYMPIA	CHEH_RAYM_1	CHEHALIS-RAYMOND-1 (7-6) 03-08-2006.pdf	3/8/2006	7	6
OLYMPIA	CHEH_RAYM_1_2022_04_11	TCO_OARSID_223173_m37_s4.pdf	11/4/2022	37	4
OLYMPIA	CHEH_RAYM_1_2023_01_09	TCO_OARSID_223572_m24_s7.pdf	1/9/2023	24	7
OLYMPIA	CHEH_RAYM_1_2024_12_14	TCO_OARSID_228550_m14_s1.pdf	12/14/2024	14	1
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m21_s2.pdf	2/23/2025	21	2
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m33_s5.pdf	2/23/2025	33	5
OLYMPIA	CHEH_RAYM_1_2025_02_23	TCO_OARSID_229086_m36_s1.pdf	2/23/2025	36	1
OLYMPIA	COVI_BETS_1_2024_11_19	TCO_OARSID_228276_m10_s2.pdf	11/19/2024	10	2
OLYMPIA	COVI_BTRD_1_2024_06_04	TCO_OARSID_226342_m9_s4.pdf	6/4/2024	9	4
OLYMPIA	DRIS_NASE_1_2021_02_13	TCO_OARSID_217577_m25_s3.pdf	2/13/2021	25	3
OLYMPIA	Driscoll Naselle	Driscoll Naselle (20-4) 2-11-2019.pdf	2/11/2019	20	4

OLYMPIA	ELBE TAP TO ALDER-LAGRANDE-1	ELBE TAP TO ALDER-LAGRANDE NO 1 (3-11) 1-11-2014.pdf	1/11/2014	3	11
OLYMPIA	Email to Mike Hamel on 12/11/06	Email to Mike Hamel re 11-06 Outages.pdf	12/11/2006		
OLYMPIA	Fairmont - Port Angeles-2	Fairmount-Port Angeles-2 (27-7) 12-14-2018 storm.pdf	12/14/2018	27	7
OLYMPIA	Fairmont - Port Angeles-2	Fairmount Pt Angeles 4_2 TCO - 2010.pdf	1/18/2010	4	2
OLYMPIA	Fairmont - Port Angeles-2	Fairmount-Port Angeles-2 (4-6) 12-14-2018 storm.pdf	12/14/2018	4	6
OLYMPIA	Fairmont - Port Angeles-2	FAIRMOUNT-PORT ANGELES-2 (5-1) 10-01-2012.pdf	10/1/2012	5	1
OLYMPIA	FAMT_POAN_1_2022_2_19	TCO_OARSID_221685_m6_s1.pdf	2/19/2022	6	1
OLYMPIA	FAMT_POAN_2_2020_11_17	TCO_OARSID_216773_m8_s2.pdf	11/17/2020	8	2
OLYMPIA	HOLC_NASE_1_2024_01_07	TCO_OARSID_225297_m1_s4.pdf	1/7/2024	1	4
OLYMPIA	HOLC_NASE_1_2024_01_09	TCO_OARSID_225342_m01_s04.pdf	1/9/2024	1	4
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle 13-5 mile - 2006.pdf	12/14/2006	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-4) 11-15-2006.pdf	11/15/2006	13	4
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle 13-4 mile - 2006.pdf	11/15/2006	13	4
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-5) 01-18-2012.pdf	1/18/2012	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (13-5) 12-14-2006.pdf	12/14/2006	13	5
OLYMPIA	HOLCOMB-NASELLE-1	Holcomb-Naselle No.1 - 2012.pdf	1/18/2012	13	5
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE (14-4) 02-19-2011.pdf	2/19/2011	14	4
OLYMPIA	HOLCOMB-NASELLE-1	HOLCOMB-NASELLE-1 (6-3) 03-12-2012.pdf	3/12/2012	6	3
OLYMPIA	KITS_BNGR_1_2023_10_03	TCO_OARSID_225012_m3_s1.pdf	10/3/2023	3	1
OLYMPIA	Mossyrock-Chehalis	MOSY-CHEH-1 (7-3) 12-10-2014.pdf	12/10/2014	7	3
OLYMPIA	MOSY_CHEH_1_2023_05_15	TCO_OARSID_224346_m8_s8.pdf	5/15/2023	8	8
OLYMPIA	MOSY_CHEH_1_2024_12_19	TCO_OARSID_228646_m15_s1.pdf	12/19/2024	15	1
OLYMPIA	NASELLE TAP TO A-A 1, A-A 1 TO CATHLEMET	NASELLE TAP TO A-A 1 TO CATHLEMET (9-1) 11-05-2005.pdf	11/5/2005	9	1
OLYMPIA	Naselle Tap to Longview-Astoria	Naselle Tap 9-1 mile - 2005.pdf	12/6/2005	9	1
OLYMPIA	NASELLE-TARLETT-1	Naselle-Tarlett 1-6 mile - 2006.pdf	12/14/2006	1	6
OLYMPIA	NASELLE-TARLETT-1	NASELLE-TARLETT-1 (1-6) 12-14-2006.pdf	12/14/2006	1	6
OLYMPIA	OLYM_CHEH_1_2024_01_10	TCO_OARSID_225386_m8_s7.pdf	1/10/2024	8	7
OLYMPIA	OLYM_GCOU_1_2021_12_30	TCO_OARSID_221244_m69_s4.pdf	12/30/2021	69	4
OLYMPIA	OLYM_GCOU_1_m58_s1	TCO_OARSID_217571_m58_s1.pdf	2/13/2021	58	1
OLYMPIA	OLYM_STCR_1_2021_11_15	TCO_OARSID_220745_m1_s2.pdf	11/15/2021	1	2
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olym - Gcou 1 - 2011.pdf	9/3/2011	18	1
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE (18-1) 03-09-2011.pdf	3/9/2011	18	1
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (33-2) 03-14-2012.pdf	3/14/2012	33	2
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee btwn 39-3 and 39-4 mile - 2006.pdf	12/14/2006	39	3 & 4
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (39-3 to 39-4) 12-14-2006.pdf	12/14/2006	39	39/3 - 39/4
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee 46-5 mile - 2006.pdf	11/10/2006	46	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLYMPIA-GRAND COULEE-1 (46-5) 11-10-2006.pdf	11/10/2006	46	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	Olympia-Grand Coulee 1 (68-5) 3-4-2016.pdf	3/4/2016	68	5
OLYMPIA	OLYMPIA-GRAND COULEE-1	OLY-GC (69-4 to 69-5) 12-9-15_Outage Report.pdf	12/9/2015	69	69/4 - 69/5
OLYMPIA	OLYMPIA-SHELTON-1	Olympia-Shelton 8-4 mile - 2006.pdf	2/4/2006	8	4
OLYMPIA	OLYMPIA-SHELTON-1	OLYMPIA-SHELTON-1 (8-4) 02-04-2006.pdf	2/4/2006	8	4
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	Olympia-S Tacoma 18-1 mile - 2006.pdf	12/14/2006	18	1
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	OLYMPIA-SOUTH TACOMA-1 (18-1) 12-14-2006.pdf	12/14/2006	18	1
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	Olympia-S Tacoma 32-3 mile - 2006.pdf	12/14/2006	32	3
OLYMPIA	OLYMPIA-SOUTH TACOMA-1	OLYMPIA-SOUTH TACOMA-1 (32-3) 12-14-2006.pdf	12/14/2006	32	3
OLYMPIA	POAN_SAPO_1_2006_02_04	TCO_OARSID_150229_m25_s7.pdf	2/4/2006	25	7
OLYMPIA	POAN_SAPO_1_2006_02_04	TCO_OARSID_150229_m25_s8.pdf	2/4/2006	25	8
OLYMPIA	POAN_SAPO_1_2006_02_27	TCO_OARSID_150587_m19_s7.pdf	2/27/2006	19	7
OLYMPIA	POAN_SAPO_1_2006_02_27	TCO_OARSID_150587_m32_s2.pdf	2/27/2006	32	2
OLYMPIA	POAN_SAPO_1_2006_03_09	TCO_OARSID_150758_m17_s3.pdf	3/9/2006	17	3
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154454_m17_s3.pdf	11/15/2006	17	3
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154454_m17_s5.pdf	11/15/2006	17	5
OLYMPIA	POAN_SAPO_1_2006_11_15	TCO_OARSID_154455_m25_s1.pdf	11/15/2006	25	1
OLYMPIA	POAN_SAPO_1_2006_11_26	TCO_OARSID_154601_m15_s8.pdf	11/26/2006	15	8
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_169055_m19_s4.pdf	11/18/2009	19	4
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_169055_m3_s2.pdf	11/18/2009	3	2
OLYMPIA	POAN_SAPO_1_2009_11_18	TCO_OARSID_169055_m9_s2.pdf	11/18/2009	9	2
OLYMPIA	POAN_SAPO_1_2012_02_25	TCO_OARSID_178593_m4_s2.pdf	2/25/2012	4	2
OLYMPIA	POAN_SAPO_1_2016_10_14	TCO_OARSID_119669_m29_s10.pdf	10/14/2016	29	10
OLYMPIA	POAN_SAPO_1_2017_11_19	TCO_OARSID_204532_m30_s5.pdf	11/19/2017	30	5
OLYMPIA	POAN_SAPO_1_2018_01_21	TCO_OARSID_204998_m32_s8.pdf	1/21/2018	32	8
OLYMPIA	POAN_SAPO_1_2018_12_14	TCO_OARSID_208752_m2_s2.pdf	12/14/2018	2	2
OLYMPIA	POAN_SAPO_1_2018_12_14	TCO_OARSID_208752_m3_s2.pdf	12/14/2018	3	2
OLYMPIA	POAN_SAPO_1_2020_01_31	TCO_OARSID_213459_m29_s10.pdf	1/31/2020	29	10
OLYMPIA	POAN_SAPO_1_2020_02_01	TCO_OARSID_213463_m33_s9.pdf	2/1/2020	33	9
OLYMPIA	POAN_SAPO_1_2020_03_31	TCO_OARSID_213949_m33_s8.pdf	3/31/2020	33	8
OLYMPIA	POAN_SAPO_1_2021_01_05	TCO_OARSID_217120_m33_s2.pdf	1/5/2021	33	2
OLYMPIA	POAN_SAPO_1_2021_01_05	TCO_OARSID_217120_m35_s1.pdf	1/5/2021	35	1
OLYMPIA	POAN_SAPO_1_2022_10_27	TCO_OARSID_223150_m23_s7.pdf	10/27/2022	23	7
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225292_m30_s8.pdf	1/6/2024	30	8
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225686_m33_s6.pdf	1/29/2024	33	6
OLYMPIA	POAN_SAPO_1_2024_01_06	TCO_OARSID_225686_m34_s6.pdf	1/29/2024	34	6
OLYMPIA	POAN_SAPO_1_2024_10_18	TCO_OARSID_227801_m26_s6.pdf	10/18/2024	26	6
OLYMPIA	POAN_SAPO_1_2025_02_03	TCO_OARSID_228907_m36_s1.pdf	2/3/2025	36	1
OLYMPIA	POAN_SAPO_1_2025_02_03	TCO_OARSID_228907_m36_s11.pdf	2/3/2025	36	1
OLYMPIA	POAN_SAPO_1_2025_02_19	TCO_OARSID_229014_m26_s3.pdf	2/19/2025	26	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 15-8 mile - 2006.pdf	11/26/2006	15	8
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (15-8) 11-26-2006.pdf	11/26/2006	15	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 17-3 mile - 2006.pdf	3/9/2006	17	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho btwn 17-3 and 17-5 mile - 2006.pdf	11/15/2006	17	3 - 5

OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (17-3 to 17-5) 11-15-2006.pdf	11/15/2006	17	17/3 - 17/5
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (17-3) 03-09-2006.pdf	3/9/2006	17	3
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles - Sappho (29-10) 10-14-2016.pdf	10/14/2016	19	10
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-4a TCO - 2009.pdf	11/18/2009	19	4
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-4b TCO - 2009.pdf	11/18/2009	19	4
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 19-7 mile - 2006.pdf	2/27/2006	19	7
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (19-7) 02-27-2006.pdf	2/27/2006	19	7
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (2-2) 12-14-2018 storm.pdf	12/14/2018	2	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-1 mile - 2006.pdf	11/15/2006	25	1
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-7 mile - 2006.pdf	2/4/2006	25	7
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 25-8 mile - 2006.pdf	2/4/2006	25	8
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-1) 11-15-2006.pdf	11/15/2006	25	1
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-7) 02-04-2006.pdf	2/4/2006	25	7
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (25-8) 02-04-2006.pdf	2/4/2006	25	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho (29-10) 1-31-2020.pdf	1/31/2020	29	10
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 3-2 TCO - 2009.pdf	11/18/2009	3	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (3-2) 12-14-2018 storm.pdf	12/14/2018	3	2
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (30-5) 11-19-2017).pdf	11/19/2017	30	5
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 32-2 mile - 2006.pdf	2/27/2006	32	2
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (32-2) 02-27-2006.pdf	2/27/2006	32	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho-1 (32-8) 1-21-2018.pdf	1/21/2018	32	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho (33-9) 2-1-2020.pdf	2/1/2020	33	9
OLYMPIA	PORT ANGELES-SAPPHO-1	PORT ANGELES-SAPPHO-1 (33-8) 3-31-2020.pdf	3/31/2020	33	8
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles Sappho 1 (4-2) 02-28-2012.pdf	2/28/2012	4	2
OLYMPIA	PORT ANGELES-SAPPHO-1	Port Angeles-Sappho 9-2 TCO - 2009.pdf	11/18/2009	9	2
OLYMPIA	RAVE_PAUL_1_2021-02-13	TCO_OARSID_217547_m11_s4.pdf	2/13/2021	11	4
OLYMPIA	RAYM_HENK_1_2023_4_30	TCO_OARSID_224200_m1_s2.pdf	4/30/2023	1	2
OLYMPIA	Raymond-Cosmopolis-1	Raymond-Cosmopolis-1 (14-4) 11-14-2017.pdf	11/14/2017	14	4
OLYMPIA	SATP_COSM_1_2023_01_02	TCO_OARSID_223498_m15_s7.pdf	1/2/2023	15	7
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	SATSOP PARK-COSMOPOLIS-1 (10-2) 12-14-2006.pdf	12/14/2006	10	2
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop-Cosmo 10-2 mile - 2006.pdf	12/14/2006	10	2
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop Park-Cosmopolis-1 (15-7) 1-6-2019.pdf	1/6/2019	15	7
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	SATSOP PARK-COSMOPOLIS-1 (8-3) 12-14-2006.pdf	12/14/2006	8	3
OLYMPIA	SATSOP PARK-COSMOPOLIS-1	Satsop-Cosmo 8-3 mile - 2006.pdf	12/14/2006	8	3
OLYMPIA	SHEL_FAMT_1_2021_01_12	TCO_OARSID_217265_m32_s1.pdf	1/12/2021	32	1
OLYMPIA	SHEL_KTSA_1_2021_01_12	TCO_OARSID_217175_m17_s2.pdf	1/12/2021	17	2
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 18-3 mile - 2006.pdf	12/14/2006	18	3
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (18-3) 12-14-2006.pdf	12/14/2006	18	3
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 25-1 mile axe - 2006.pdf	2/4/2006	25	1
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 25-2 mile - 2006.pdf	2/4/2006	25	2
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (25-1) 02-04-2006.pdf	2/4/2006	25	1
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (25-2) 02-04-2006.pdf	2/4/2006	25	2
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmount 28-5 mile - 2006.pdf	2/4/2006	28	5
OLYMPIA	SHELTON-FAIRMOUNT-1	SHELTON-FAIRMOUNT-1 (28-5) 02-04-2006.pdf	2/4/2006	28	5
OLYMPIA	SHELTON-FAIRMOUNT-1	Shelton-Fairmont-1 (57-8) 11-26-2018.pdf	11/24/2018	57	8
OLYMPIA	SHELTON-FAIRMOUNT-2	SHEL-FAMT-2 (8-1) 12-17-2015.pdf	12/17/2015	8	1
OLYMPIA	SOUTH ELMA - SATSOP PARK	SOUTH ELMA - SATSOP PARK (2-7) 7-27-2020.pdf	7/27/2020	2	7
OLYMPIA	St Clair-South Tacoma-1	St Clair-South Tacoma-1 (2-5) 12-20-2018.pdf	12/20/2018	2	5
ROSS	Allston-Astoria	Allston-Astoria-1 (43-1) 01-31-2006.pdf	1/31/2006	43	1
ROSS	Allston-Astoria	Allston-Astoria 43-1 mile - 2006.pdf	1/31/2006	43	1
ROSS	Allston-Astoria	Allston-Astoria 7-5 mile - 2005.pdf	11/17/2015	7	5
ROSS	Allston-Astoria	ALLSTON-ASTORIA-1 (7-5) 11-17-2005.pdf	11/17/2005	7	5
ROSS	ALSN_CLSO_1	ALLSTON-CLATSOP-1 (27-4) 01-30-2006.pdf	1/30/2006	27	4
ROSS	ALSN_CLSO_1	Allston-Clatsop-1 (27-6) 11-13-2017.pdf	11/13/2017	27	6
ROSS	ALSN_CLSO_1	Allston-Clatsop 27-4 mile - 2006.pdf	1/30/2006	27	4
ROSS	ALSN_DRIS_1	Allston-Driscoll-2 (6-1) 10-28-2017.pdf	10/28/2017	6	1
ROSS	BIGE_MCLO_1&2	BIG EDDY-MCLOUGHLIN-1-2 (72-4) 02-04-2006.pdf	2/4/2006	72	4
ROSS	BIGE_OSTD_1	Big Eddy-Ostrander Tree Outage 3.29.2010.pdf	3/29/2010	55	4
ROSS	BIGE_OSTD_1	BIG EDDY-OSTRANDER-1 (55-4) 03-29-2010.pdf	3/29/2010	55	4
ROSS	BIGE_TROUT_1_2022_12_27	TCO_OARSID_223512_m61_s4.pdf	12/27/2022	61	4
ROSS	BOPH_ALCO_1&2	Bonneville-Alcoa Sifton-Ross (37-2) 01-05-2018.pdf	1/5/2019	37	2
ROSS	BOPH_ALCO_1&2	Bonneville-Alcoa (8-1) 02-09-2017.pdf	2/9/2017	8	1
ROSS	BOPH_ALCO_2_2022_12_27	TCO_OARSID_223388_m21_s2.pdf	12/27/2022	21	2
ROSS	BOPH_ALCO_2_2024_01_13	TCO_OARSID_225461_m16_s7.pdf	1/13/2024	16	7
ROSS	BOPH_ALCO_2_2024_01_20	TCO_OARSID_225640_m18_s3.pdf	1/20/2024	18	3
ROSS	CARD_COWL_1_2021_10_24	TCO_OARSID_220488_m6_s5.pdf	10/24/2021	6	5
ROSS	DRIS_ASTO_1_2021_02_13	TCO_OARSID_217595_m20_s2.pdf	2/13/2021	20	2
ROSS	Keeler-Allston	Keeler_Allston_42Mile_12-21-2015.pdf	12/21/2015	42	
ROSS	KEELER-OREGON CITY-2	Keeler-OC 2-6 mile - 2005.pdf	12/18/2005	2	6
ROSS	KEELER-OREGON CITY-2	KEELER-OREGON CITY-2 (2-6) 12-18-2005.pdf	12/18/2005	2	6
ROSS	McNary-Ross	McNary-Ross 345KV (132-2) 2-28-2016 wPics weather.pdf	2/28/2016	132	2
ROSS	NBON_ROSS_1_2021_01_12	TCO_OARSID_217267_m33_s4.pdf	1/12/2021	33	4
ROSS	NORTH BONNEVILLE-TROUTDALE-1	NORTH BONNEVILLE-TROUTDALE-1 (22-1) 12-18-2005.pdf	12/18/2005	22	1
ROSS	NORTH BONNEVILLE-TROUTDALE-1	NORTH BONNEVILLE-TROUTDALE-1 (22-1) 2005.pdf	12/18/2005	22	1
ROSS	NORTH BONNEVILLE-TROUTDALE-1	North Bonneville-Troutdale-1 (8-7) 9-8-2020.pdf	8/9/2020	8	7
ROSS	OSTD_PERL_1_2022_1_7	TCO_OARSID_221421_m6_s3.pdf	1/7/2022	6	3
ROSS	Ostrander Sub	Ostrander Sub 72-4 mile - 2006.pdf	2/4/2006	72	4
ROSS	Ross-Lexington-1	Ross_Lexington_15Mile_12-21-2015.pdf	12/21/2015	15	
ROSS	Ross-Lexington-1	Ross_Lexington_17Mile_12-21-2015.pdf	12/21/2015	17	
ROSS	Ross-Lexington-1	Ross_Lexington_18_3Mile_12-21-2015.pdf	12/21/2015	18	

ROSS	Ross-Lexington-1	Ross_Lexington_18Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_10Mile_12-21-2015.pdf	12/21/2015	10	
ROSS	St Helens-Allston	StHelens_Allston_18_5Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_18Mile_12-21-2015.pdf	12/21/2015	18	
ROSS	St Helens-Allston	StHelens_Allston_19Mile_12-21-2015.pdf	12/21/2015	19	
ROSS	St Helens-Allston	StHelens_Allston_6Mile_12-21-2015.pdf	12/21/2015	6	
ROSS	ST HELENS-ALLSTON-1	St Helen-Allston 15-6 mile - 2006.pdf	12/14/2006	15	6
ROSS	ST HELENS-ALLSTON-1	ST HELENS-ALLSTON-1 (15-6) 12-14-2006.pdf	12/14/2006	15	6
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens - 2006.pdf	11/3/2006		
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PGE)-1 (blank) 11-03-2006.pdf	11/3/2006		
ROSS	ST JOHNS-ST HELENS	StJohns_StHelens_15Mile_12-21-2015.pdf	12/21/2015	15	
ROSS	ST JOHNS-ST HELENS	StJohns_StHelens_19Mile_12-21-2015.pdf	12/21/2015	19	
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PGE)-1 (21-3) 12-14-2006.pdf	12/14/2006	21	3
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens 21-3 mile - 2006.pdf	12/14/2006	21	3
ROSS	ST JOHNS-ST HELENS	ST JOHNS-ST HELENS (PGE)-1 (4-2) 02-17-2006.pdf	2/17/2006	4	2
ROSS	ST JOHNS-ST HELENS	St Johns-St Helens 4-2 mile - 2006.pdf	2/17/2006	4	2
ROSS	STJO_STHL_1_2021_01_13	TCO_OARSID_217268_m15_s2.pdf	1/13/2021	15	2
ROSS	STJO_STHL_1_2021_02_15	TCO_OARSID_217636_m9_s7.pdf	2/15/2021	9	7
ROSS	Trojan-Allston-1	Trojan_Allston_9Mile_12-21-2015.pdf	12/21/2015	9	
SALEM	BOYR_TILL_1	Boyer-Tillamook-1 2pgs (20-5) 9-19-2017.pdf	9/19/2017	20	5
SALEM	BOYR_TILL_1	BOYR-TILL-1_12.20.18.pdf	12/20/2018	29	3
SALEM	BOYR_TILL_1	BORY-TILL-1 (4-2) 12.7.2015.pdf	12/7/2015	4	2
SALEM	CARL_TILL_1	Carlton-Till 10-9 mile - 2006.pdf	12/14/2006	10	9
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (10-9) 12-14-2006.pdf	12/14/2006	10	9
SALEM	CARL_TILL_1	Carlton-Till btwn 11-6 and 11-7 mile - 2006.pdf	12/14/2006	11	6-7
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (11-6 to 11-7) 12-14-2006.pdf	12/14/2006	11	11/6 - 11/7
SALEM	CARL_TILL_1	Carlton-Tillamook 19-8 mile - 2005.pdf	11/5/2005	19	8
SALEM	CARL_TILL_1	CARLTON-TILLAMOOK-1 (19-8) 11-05-2005.pdf	11/5/2005	19	8
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m11_s8.pdf	12/27/2022	11	8
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m15_s4.pdf	12/27/2022	15	4
SALEM	CARL_TILL_1_2022_12_27	TCO_OARSID_223477_m15_s8.pdf	12/27/2022	15	8
SALEM	CARL_TILL_1_2024_12_26	TCO_OARSID_228692_m20_s2.pdf	12/26/2024	20	2
SALEM	FOREST GROVE-MCMINNVILLE-1	FOREST GROVE-MCMINNVILLE-1 (10-3 to 10-4) 09-24-2007.pdf	8/24/2007	10	10/3 - 10/4
SALEM	FOREST GROVE-MCMINNVILLE-1	Forst Grove-McMinn Tree Cut btwn 10-3 and 10-4 mile - 2007.pdf	9/24/2007	10	3-4
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1-(18-4) 12.12.15.pdf	12/12/2015	18	4
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1 (22-1) 10-23-2017.pdf	10/23/2017	22	1
SALEM	Forest Grove-Tillamook-1	FORG-TILL-1 (22-9) 11-13-17.pdf	11/13/2017	22	9
SALEM	FORG_TILL_1_2022_12_27	TCO_OARSID_223481_m16_s5.pdf	12/27/2022	16	5
SALEM	FORG_TILL_1_2022_12_27	TCO_OARSID_223481_m22_s9.pdf	12/27/2022	22	9
SALEM	GRANDE RONDE-BOYER-1	Grand Ronde-Boyer 1-3 mile - 2006.pdf	11/12/2006	1	3
SALEM	GRANDE RONDE-BOYER-1	GRANDE RONDE-BOYER-1 (1-3) 11-12-2006.pdf	11/12/2006	1	3
SALEM	GRANDE RONDE-BOYER-1	Grand Ronde-Boyer 4-6 mile - 2006.pdf	11/12/2006	4	6
SALEM	GRANDE RONDE-BOYER-1	GRANDE RONDE-BOYER-1 (4-6) 12-14-2006.pdf	12/14/2006	4	6
SALEM	Jones Canyon-Santiam-1	JSCB-SANT-1 (128-2) 4.14.16.pdf	4/14/2016	128	2
SALEM	Jones Canyon-Santiam-1	JSCB-SANT-1 (125-2) 1-1-16.pdf	1/1/2016	25	2
SALEM	JSCB_SANT_1_2024_01_09	TCO_OARSID_225333_m133_s2.pdf	1/9/2024	133	2
SALEM	KEEL_ALSN_1_2024_8_17	TCO_OARSID_226869_m15_s1.pdf	8/17/2024	15	1
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook - 2007.pdf	2/27/2007	24	4
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (24-4) 02-27-2007.pdf	2/27/2007	24	4
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 29-6 mile - 2006.pdf	12/14/2006	29	6
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (29-6) 12-14-2006.pdf	12/14/2006	29	6
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 32-6 mile - 2006.pdf	12/14/2006	32	6
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (32-6) 12-14-2006.pdf	12/14/2006	32	6
SALEM	KEELER-TILLAMOOK-1	Keeler-Tillamook 45-11 mile - 2005.pdf	12/28/2005	45	11
SALEM	KEELER-TILLAMOOK-1	KEELER-TILLAMOOK-1 (45-11) 12-28-2005.pdf	12/28/2005	45	11
SALEM	SALEM-ALBANY-1	Salem-Albany 10-8 mile - 2005.pdf	10/14/2005	10	8
SALEM	SALEM-ALBANY-1	Salem-Albany btwn 10-4 and 10-5 - 2006.pdf	12/14/2006	10	4-5
SALEM	SALEM-ALBANY-1	SALEM-ALBANY-1 (10-4 to 10-5) 12-14-2006.pdf	12/14/2006	10	10/4 - 10/5
SALEM	SALEM-ALBANY-1	SALEM-ALBANY-1 (10-8) 10-14-2005.pdf	10/14/2005	10	8
SALEM	Timber Tap	Timber Tap 11-9 mile - 2006.pdf	12/14/2006	11	9
SALEM	Timber Tap	Timber Tap 2-6 mile - 2005.pdf	12/19/2005	2	6
SALEM	Timber Tap	Timber Tap 2-6 mile - 2006.pdf	2/4/2006	2	6
SALEM	Timber Tap	Timber Tap 2-7 mile - 2006.pdf	12/14/2006	2	7
SALEM	Timber Tap	Timber Tap 6-4 mile - 2006.pdf	12/14/2006	6	4
SALEM	Timber Tap	Timber Tap 9-9 mile - 2006.pdf	12/14/2006	9	9
SALEM	Timber Tap to Forest Grove-Tillamook-1	TIMBT-FOTI-1- (5-3) 12.22.2015.pdf	12/22/2015	5	3
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (11-9) 12-14-2006.pdf	12/14/2006	11	9
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-6) 02-04-2006.pdf	2/4/2006	2	6
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-6) 12-19-2005.pdf	12/19/2005	2	6
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (2-7) 12-14-2006.pdf	12/14/2006	2	7
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (5-3) 11-15-2010.pdf	11/15/2010	5	3
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (6-4) 12-14-2006.pdf	12/14/2006	6	4
SALEM	TIMBER TAP TO K-T-1	TIMBER TAP TO K-T-1 (9-9) 12-14-2006.pdf	12/14/2006	9	9
SALEM	Timber tap to the Keeler - Tillamook-1	Timber tap to the Keeler - Tillamook no.1 115kv - 2010.pdf	11/15/2010	5	3
SALEM	TIMBT_FOTI_1_2021_01_12	TCO_OARSID_217206_m10_s1.pdf	1/12/2021	10	1
SALEM	TIMBT_FOTI_1_2022_12_27	TCO_OARSID_223481_m4_s3.pdf	12/27/2022	4	3
SALEM	TIMBT_FOTI_1_2023_05_14	TCO_OARSID_224329_m7_s6.pdf	5/14/2023	7	6
SNOHOMISH	A-B-03-AN-11	A-B-03-AN-11 SCAN PACKET 02-16-2010.pdf	2/16/2010		
SNOHOMISH	CHJO_MONE_1	Chief Jo-Monroe (92-2) 1-11-2020.pdf	1/11/2020	92	2
SNOHOMISH	CHJO_SNOH_4	Chief Jo-Snohomish-4 (89-2) 1-14-2020.pdf	1/14/2020	89	2

SNOHOMISH	CHJO_SNOH_4_2022_11_05	TCO_OARSID_223172_m101_s2.pdf	11/5/2022	101	2
SNOHOMISH	Email to Steve Narolski re Jim Creek 115kv line	FW Jim Creek 115kV line restoration - 2010.pdf	11/18/2010		
SNOHOMISH	Jim Creek Service 1	JimCr_TCO_Rept - 2009.pdf	5/12/2009	7	1-2
SNOHOMISH	MONE_CUST_1	MONROE-CUSTER-1 (20-2) 05-03-2010.pdf	5/3/2010	20	2
SNOHOMISH	MONE_CUST_1	Monroe-Custer-1 (52-3) 6-1-2016.pdf	6/1/2016	52	3
SNOHOMISH	MONE_NOVH_1_2021_01_13	TCO_OARSID_217230_m11_s2.pdf	1/13/2021	11	2
SNOHOMISH	MURY_CUST_1	Murray-Custer (24-8) 11-15-2006.pdf	11/15/2006	24	8
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (24-8) 11-15-2006.pdf	11/15/2006	24	8
SNOHOMISH	MURY_CUST_1	Murray-Custer (3-6) 11-15-2010.pdf	11/15/2010	3	6
SNOHOMISH	MURY_CUST_1	Murray-Custer (3-7) 11-27-2006.pdf	11/27/2006	3	7
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (3-6) 11-15-2010.pdf	11/15/2010	3	6
SNOHOMISH	MURY_CUST_1	MURRAY-CUSTER-1 (3-7) 11-27-2006.pdf	11/27/2006	3	7
SNOHOMISH	MURY_CUST_1_2021_11_15	TCO_OARSID_220737_m3_s8.pdf	11/15/2021	3	8
SNOHOMISH	SNOH_MURY_1	Snohomish-Murray-1 (11-7,13-7,16-1) 11-17-2015.pdf	11/17/2015	11/7, 13/7, 16/1	11/7, 13/7, 16/1
SNOHOMISH	SNOH_MURY_1	Snohomish-Murray-1 (13-8) 2-20-2018.pdf	2/20/2018	13	8
SNOHOMISH	SNOH_MURY_1_2021_01_13	TCO_OARSID_217260_m13_s6.pdf	1/13/2021	13	6
SNOHOMISH	SNOH_MURY_1_2022_11_25	TCO_OARSID_223266_m5_s2.pdf	11/25/2022	5	2
SPOKANE	BELL_BOUN_3	Bell-Boundary-3 (77-9) 9-30-2006.pdf	9/30/2006	77	9
SPOKANE	BELL_BOUN_3	Bell-Boundary-3 (92-1) 10-21-2017.pdf	10/21/2017	92	1
SPOKANE	BELL_BOUN_3_2021_01_12	TCO_OARSID_217178_m91_s5.pdf	1/12/2021	91	5
SPOKANE	BELL_BOUN_3_2023_3_28	TCO_OARSID_224090_m78_s1.pdf	3/28/2023	78	1
SPOKANE	BELL_BOUN_3_2024_01_09	TCO_OARSID_225338_m77_s3.pdf	1/9/2024	77	3
SPOKANE	BELL_BOUN_3_2024_11_21	TCO_OARSID_228353_m77_s5.pdf	11/21/2024	77	5
SPOKANE	BELL_BOUN_3_2024_11_21	TCO_OARSID_228355_m77_s5.pdf	11/21/2024	77	5
SPOKANE	BOUN_SACH_1_2024_11_17	TCO_OARSID_228243_m25_s3.pdf	11/17/2024	25	3
SPOKANE	BOUN_SACH_1_2024_11_17	TCO_OARSID_228242_m25_s3.pdf	11/17/2024	25	3
SPOKANE	COLV_BOUN_1	Colville-Boundary 1 Tree Caused Outage reported 24 Sept 2018.pdf	9/23/2018	1	3
SPOKANE	COLV_BOUN_1_2024_08_23	TCO_OARSID_226977_m07_s07.pdf	8/23/2024	7	7
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (25-6) 7-31-2020.pdf	7/31/2020	25	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (25-6) 3-2-2018.pdf	3/2/2018	25	6
SPOKANE	COLV_REPU_1	Colville-Republic 26-6 mile - 2006.pdf	8/8/2006	26	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (26-6) 08-08-2006.pdf	8/8/2006	26	6
SPOKANE	COLV_REPU_1	Colville-Republic-1 (30-6) 9-30-2019.pdf	9/30/2019	30	6
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC NO 1 (33-4) 10-17-2012.pdf	10/17/2012	33	4
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC-1 (33-4) 10-17-2012.pdf	10/17/2012	33	4
SPOKANE	COLV_REPU_1	COLVILLE-REPUBLIC NO 1 (38-1to38-2) 9-15-2012.pdf	9/15/2012	38	38/1 - 38/2
SPOKANE	COLV_REPU_1_2021_03_29	TCO_OARSID_218025_m29_s7.pdf	3/29/2021	29	7
SPOKANE	COLV_REPU_1_2023_11_06	TCO_OARSID_225105_m35_s1.pdf	11/6/2023	35	1
SPOKANE	Libby-Troy	Libby-Troy 26-5 mile - 2007.pdf	8/31/2007	26	5
SPOKANE	LIBY_BOFE_1	Libby-Bonners Ferry 26-2 mile - 2005.pdf	11/5/2005	26	2
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (26-2) 11-05-2005.pdf	11/5/2005	26	2
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (26-5) 08-31-2007.pdf	8/31/2007	26	5
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (46-7) 7-24-2019.pdf	7/24/2019	46	7
SPOKANE	LIBY_BOFE_1	LIBBY-BONNERS FERRY-1 (51-5) 1-9-2018.pdf	1/9/2018	51	5
SPOKANE	LIBY_BOFE_1_2021_11_15	TCO_OARSID_220775_m35_s8.pdf	11/15/2021	35	8
SPOKANE	LIBY_BOFE_1_2021_11_15	TCO_OARSID_220801_m41_s3.pdf	11/15/2021	41	3
SPOKANE	LIBY_BOFE_1_2024_06_11	TCO_OARSID_226412_m43_s5.pdf	6/11/2024	43	5
SPOKANE	SDCK_BOFE_1&2_2022_08_31	TCO_OARSID_222936_m10_s2.pdf	8/31/2022	10	2
SPOKANE	SDCK_BOFE_1&2_2024_09_25	TCO_OARSID_227400_m14_s1.pdf	9/25/2024	14	1
SPOKANE	SPIRT_COBO_1_2020_12_22	TCO_OARSID_122220_m1_s8.pdf	12/22/2020	1	8
SPOKANE	SPIRT_COBO_1_2025_04_16	TCO_OARSID_229569_m1_s4.pdf	4/16/2025	1	4
SPOKANE	TAFT_BELL_1_2021_01_13	TCO_OARSID_217308_m38_s3.pdf	1/13/2021	38	3
SPOKANE	TAFT_BELL_1_2021_11_15	TCO_OARSID_220822_m38_s3.pdf	11/15/2021	38	3
THE DALLES	BOPH_HORV_1	Bonneville - Hood River - 2012.pdf	12/30/2011	2	5
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER (2-5) 12-30-2011.pdf	12/30/2011	2	5
THE DALLES	BOPH_HORV_1	Bonneville - Hood River (20-2) 12-9-2015 tree outage.pdf	12/9/2015	20	2
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER (3-1 to 3-2) 11-27-2010.pdf	11/27/2010	3	3/1 - 3/2
THE DALLES	BOPH_HORV_1	Bonneville-Hood River 5-7 - 2015.pdf	11/17/2015	5	7
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER-1 (6-9) 07-09-2006.pdf	7/9/2006	6	9
THE DALLES	BOPH_HORV_1	Bonn-HR 6-9 mile - 2006.pdf	9/7/2006	6	9
THE DALLES	BOPH_HORV_1	BH-(7-2) 12-22-2015 tree outage wPics.pdf	12/22/2015	7	2
THE DALLES	BOPH_HORV_1	BONNEVILLE-HOOD RIVER-1 (8-5) 12-18-2012.pdf	12/18/2012	8	5
THE DALLES	BOPH_HORV_1	BH-(9-1) 12-22-2015 tree outage wPic.pdf	12/22/2015	9	1
THE DALLES	CALKT_BOHO_1_2024_1_14	TCO_OARSID_224498_m9_a8.pdf	1/14/2024	9	8
THE DALLES	KNIT_OSTD_1_2021_13_02	TCO_OARSID_217600_m47_s3.pdf	2/13/2021	47	3
THE DALLES	KNIT_OSTD_1_2022_1_3	TCO_OARSID_221312_m72_s2.pdf	1/3/2022	72	2
THE DALLES	KNIT_OSTD_1_2024_1_13	TCO_OARSID_225446_m78_s2.pdf	1/13/2024	78	2
THE DALLES	KNIT_OSTD_1_2025_02_25	TCO_OARSID_229089_m48_s4.pdf	2/25/2025	48	4
THE DALLES	NBON_MIDW_1	NORTH BONNEVILLE-MIDWAY-1 (25-3) 12-17-2012.pdf	12/17/2012	25	3
THE DALLES	NBON_MIDW_1_2021_12_31	TCO_OARSID_221256_m34_s6.pdf	12/31/2021	34	6
THE DALLES	NBON_MIDW_1_2024_01_19	TCO_OARSID_225623_m34_s6.pdf	1/19/2024	34	6
THE DALLES	NBON_MIDW_1_2024_01_21	TCO_OARSID_225653_m34_s6.pdf	1/21/2024	34	6
THE DALLES	NBON_MIDW_1_2024_01_21	TCO_OARSID_225644_m34_s6.pdf	1/21/2024	34	6
THE DALLES	NBON_MIDW_1_2024_1_12	TCO_OARSID_225408_m14_s1.pdf	1/12/2024	14	1
THE DALLES	NBON_MIDW_1_2024_1_13	TCO_OARSID_225429_m14_s1.pdf	1/13/2024	14	1
TRI-CITIES	ROUN_LAGD_1	Roundup - La Grande-1 (13-7) 4-7-2017.pdf	4/7/2017	13	7
WENATCHEE	KELLT_GCOK_2_2022_06_03	TCO_OARSID_222476_M20_s4.pdf	6/3/2022	20	4
WENATCHEE	SHUL_ECOL_1	Schultz-Echo Lake 80-3 mile - 2006.pdf	2/10/2006	80	3