This document provides the list of assumptions used to develop the base case for calculating ATC on BPA's internal paths. Base cases were developed in 2022 representing a 2027 system. Assumptions are broken into four (4) catagories: Load, Infrastructure Projects, Interties, and Generation.

Assumptions were applied to three (3) seasonal studies as follows. Seasons definitions are based on load and generation patterns observed during those times of the year. The month in parentheses is the worst case month for each season from an overall system standpoint.

- Winter (January 2027) November 2026 through February 2027,
- Spring (May 2027) May 2027
- Summer (August 2027) July through August 2027

Loads	
<u>DSI</u> Intalco	MW
Intalco	403
Winter/Summer: Federal/Non-Federal 1 in 2 pr	obability forecast
Spring: 69% of peak summer forecast	

Infrastructure Projects	
<u>Project</u>	
Slatt-Buckley 500 kV Series Capacitor	
Schultz-Wautoma 500 kV Series Capacitor	

Interties				
<u>Location</u>	<u>Winter</u>	Spring	Late Sum	Notes
Northern Intertie			1,485	N-S BPA
	-1,120	-1,120		Entitlement Return (Exports to Canada)
Montana to Northwest	1,120	2,200	945	
Idaho to Northwest	760	-713	567	
COI	3,095	3,095	3,095	
PDCI	1,577	3,100	1,577	

Key for intertie assumptions: 1. Positive number indicates flow either the North to South or East to West direction.

					-	Genera	tion		
<u>Project</u>	(Obligation	*		Capability	1		Historical	<u>Notes</u>
	Winter	Spring	Summer	Winter	Spring S	ummer	Winter	Spring Summer	
				Maj	or Federa	I Gener	ation	"Big 15"	
Bonneville	1,124	1,123	1,088						Lower C Scenario Dispatch
The Dalles	1,894	1,892	1,832						Lower C Scenario Dispatch
John Day	2,084	2,083	2,017						Lower C Scenario Dispatch
McNary	1,019	1,018	986						Lower C Scenario Dispatch
Ice Harbor	664	532	342						Lower Snk Scenario Dispatch
Lower Monumental	851	682	439						Lower Snk Scenario Dispatch
Little Goose	893	714	460						Lower Snk Scenario Dispatch
Lower Granite	869	696	448						Lower Snk Scenario Dispatch
Chief Joseph	2,126	2,125	2,145						Upper C Scenario Dispatch
Grand Coulee	5,692	5,687	5,743						Upper C Scenario Dispatch
Albeni Falls	24	29	36						
Columbia Generating Station	1,154	1,154	1,154						Includes 52 MW station service load
Dworshak	453	449	453						
Hungry Horse	214	183	252						
Libby	485	517				525			
					Major T		Genera	tion	
Beaver	531				461	485			
Carty		474		471		418			
Centralia (retired)	264	264	264						
Chehalis				507	477	477			
Coyote Springs 1 & 2		597	544	594					
Frederickson South Tacoma	137	137	137						
Goldendale Energy Project	315				265	265			
Grays Harbor	200	200	200						
Hermiston Generating Project	255	255	255						
Klamath Falls				475	475	475			
Mint Farm	320	320				270			
Port Westward I	378	378	378						
Port Westward II	225	225	225						

					ation					
<u>Project</u>		Obligation		Capability				Historica		<u>Notes</u>
•	Winter	Spring	Summer	Winter	Spring	Summer	Winter	Spring	Summer	
					Major	Utility G	enerati	on		
PSE In-system							622	1,270	1,270	Non-federal rights unknown. Numbers agreed to plan the system.
Seattle City Light Skagit							569	649	649	Non-federal rights unknown. Numbers agreed to plan the system.
Seattle City Light Boundary		1,021					696		650	
Snohomish PUD	97	97	97							
				ion						
Wells							656	672	647	95th percentile of historical
Rocky Reach							972	990	968	95th percentile of historical
Rock Island							424	455	418	95th percentile of historical
Wanapum							794	788	731	95th percentile of historical
Priest Rapids							707	710	700	95th percentile of historical
					I-5 Co	orridor G				
Mayfield							150	150	120	
Mossy Rock		378		323		343				
River Road				248	220	220				
Swift							265	230	208	
Merwin							130	115	30	
Yale							145	145	70	
					W	estern M				
Cab Gorge							228	230	230	Non-federal rights unknown. Numbers agreed to plan the system.
Noxon							520	520	520	Non-federal rights unknown. Numbers agreed to plan the system.
Box Canyon	55	55	55							Non-federal rights unknown. Numbers agreed to plan the system.
Rathdrum AVA						132	153	136		Non-federal rights unknown. Numbers agreed to plan the system.

						Generat	tion			
Project		Obligation	า*		Capabi	lity	Historical			Notes
	Winter	Spring	Summer	Winter	Spring	Summer	Winter	Spring	Summer	
					Wind	and Solar	Genera	tion		
Bettas Road	50	50	50							
Big Eddy	10	10	10							
Big Horn	200	200	200							
Biglow Canyon	621	621	621							
Blue Ridge	300	300	300							
Boardman	90	90	90							
Central Ferry	761	761	761							
Combine Hills (BPA)	62	62	62							
Combine Hills (PAC)							40	40	40	
Demoss	20	20	20							
Echo (PAC)							50	50	50	
Grassland	261	261	311							
Harney				40	40	40				
Hopkins Ridge	133	133	133							
Horn Butte	181	181	181							
Jones Canyon	257	257	257							
Klondike Schoolhouse	410	410	410							
LaPine				45	45	45				
Linden	50	50	50							
Marengo (PAC)							140	140	140	
Maupin	200	200	200							
McNary	225	225	225							
Montague	290	290	290							
Moxee	160	160	160							
Nine Canvon	83	83	83							
Ponderosa	560	560	560							
Palouse (AVA)	104	104	104							
Rattlesnake	25	25	25							
Rock Creek	899	899	899							
Shepards Flat	750	750	750							
Slatt	50	50	50							
Stateline (BPA)	92	92	92							
Stateline (PAC)							210	210	210	
Vancycle	25	25	25							
Vantage							90	90	90	
Wheat Field	97	97	97							
Wild Horse (PSE)							230	230	230	

^{*}In off-peak Spring scenarios, generation is displaced according to an economic merit order dispatch. Some obligations may not be modeled.

This document provides the list of assumptions used to develop the base case for calculating ATC on BPA's internal paths. Base cases were developed in 2022 representing a 2032 system. Assumptions are broken into four (4) catagories: Load, Infrastructure Projects, Interties, and Generation.

Assumptions were applied to three (3) seasonal studies as follows. Seasons definitions are based on load and generation patterns observed during those times of the year. The month in parentheses is the worst case month for each season from an overall system standpoint.

- Winter (January 2032) November 2031 through February 2032
- Spring (May 2032) May 2032,
- Summer (August 2032) July through August 2032

Loads	
<u>DSI</u>	MW
Intalco	403
Winter/Summer: Federal/Non-Federal 1 in 2 p	robability forecast
Spring: 69% of peak summer forecast	

Infrastructure Projects
<u>Project</u>
Slatt-Buckley 500 kV Series Capacitor
Schultz-Wautoma 500 kV Series Capacitor

Interties				
<u>Location</u>	<u>Winter</u>	Spring	Late Sum	<u>Notes</u>
Northern Intertie			1,485	N-S BPA
	-1,120	-1,120		Entitlement Return (Exports to Canada)
Montana to Northwest	1,120	2,200	945	
Idaho to Northwest	760	-713	567	
COI	3,620	3,620	3,620	
PDCI	1,577	3,100	1,577	

Key for intertie assumptions: 1. Positive number indicates flow either the North to South or East to West direction.

	Generation											
<u>Project</u>	(Obligation			Capabil		Historic		<u>Notes</u>			
	Winter	Spring	Summer				Winter Spring					
	Major Federal Generation "Big 15"											
Bonneville	1,124	1,123	1,088						Lower C Scenario Dispatch			
The Dalles	1,894	1,892	1,832						Lower C Scenario Dispatch			
John Day	2,084	2,083	2,017						Lower C Scenario Dispatch			
McNary	1,019	1,018	986						Lower C Scenario Dispatch			
Ice Harbor	664	532	342						Lower Snk Scenario Dispatch			
Lower Monumental	851	682	439						Lower Snk Scenario Dispatch			
Little Goose	893	714	460						Lower Snk Scenario Dispatch			
Lower Granite	869	696	448						Lower Snk Scenario Dispatch			
Chief Joseph	2,126	2,125	2,145						Upper C Scenario Dispatch			
Grand Coulee	5,692	5,687	5,743						Upper C Scenario Dispatch			
Albeni Falls	24	29	36									
Columbia Generating Station	1,154	1,154	1,154						Includes 52 MW station service load			
Dworshak	453	449	453									
Hungry Horse	214	183	252									
Libby	485	517				525						
					Maj	or Therm	al Generation					
Beaver	531				461	485						
Carty		474		471		418						
Centralia (retired)	264	264	264									
Chehalis				507	477	477						
Coyote Springs 1 & 2	547	547	547									
Frederickson South Tacoma	137	137	137									
Goldendale Energy Project	375				265	265						
Grays Harbor	200	200	200									
Hermiston Generating Project	255	255	255	0	0	0						
Klamath Falls				475	475	475						
Mint Farm	320	320				270						
Port Westward I	378	378	378									
Port Westward II	225	225	225									

	Generation											
<u>Project</u>	(Obligation			Capability			Historic		<u>Notes</u>		
	Winter	Spring	Summer	Winter	Spring	Summer	Winter	Spring	Summer			
Major Utility Generation												
PSE In-system							622	1,270	1,270	Non-federal rights unknown. Numbers agreed to plan the system.		
Seattle City Light Skagit							569	649	649	Non-federal rights unknown. Numbers agreed to plan the system.		
Seattle City Light Boundary		1,021					696		650			
Snohomish PUD	97	97	97									
	Mid-Columbia Generation											
Wells							656	672	647	95th percentile of historical		
Rocky Reach							972	990	968	95th percentile of historical		
Rock Island							424	455	418	95th percentile of historical		
Wanapum							794	788	731	95th percentile of historical		
Priest Rapids							707	710	700	95th percentile of historical		
					I-5	Corridor	Genera	ation				
Mayfield							150	150	120			
Mossy Rock		378		323		343						
River Road				248	220	220						
Swift							265	230	208			
Merwin							130	115	30			
Yale							145	145	70			
						Western	Montan	ıa				
Cab Gorge							228	230	230	Non-federal rights unknown. Numbers agreed to plan the system.		
Noxon							520	520	520	Non-federal rights unknown. Numbers agreed to plan the system.		
Box Canyon	53	53	53							Non-federal rights unknown. Numbers agreed to plan the system.		
Rathdrum AVA						132	153	136		Non-federal rights unknown. Numbers agreed to plan the system.		

						Gene	ration				
<u>Project</u>		Obligation			Capabil			Historic		<u>Notes</u>	
_	Winter	Spring	Summer	Winter	Spring	Summer	Winter	Spring	Summer		
Wind and Solar Generation											
Bettas Road	50	50	50								
Big Eddy	10	10	10								
Big Horn	200	200	200								
Biglow Canyon	621	621	621								
Blue Ridge	300	300	300								
Boardman	90	90	90								
Central Ferry	761	761	761								
Combine Hills (BPA)	62	62	62								
Combine Hills (PAC)							40	40	40		
DeMoss	20	20	20								
Echo (PAC)							50	50	50		
Grassland ´	261	261	311								
Harney				40	40	40					
Hopkins Ridge Horn Butte	133	133	133								
Horn Butte	181	181	181								
Jones Canvon	257	257	257								
Klondike Schoolhouse	410	410	410								
LaPine				45	45	45					
Linden	50	50	50								
Marengo (PAC)							140	140	140		
Maupin	200	200	200								
McNary	225	225	225								
Montague	290	290	290								
Moxee	160	160	160								
Nine Canyon	83	83	83								
Palouse (AVA)	104	104	104								
Ponderosa	560	560	560								
Rattlesnake	25	25	25								
Rock Creek	892	892	892								
Shepards Flat	750	750	750								
Slatt	50	50	50								
Stateline (BPA)	92	92	92								
Stateline (PAC)							210	210	210		
Vancycle	25	25	25								
Vantage							90	90	90		
Wheat Field	97	97	97								
Wild Horse (PSE)							230	230	230		

^{*}In off-peak Spring scenarios, generation is displaced according to an economic merit order dispatch. Some obligations may not be modeled.