Alternative Scheduling, System Control, and Dispatch Rate Structures

Described below are two alternative rate structures for Scheduling, System Control and Dispatch (SCD). Neither alternative would change the amount of revenue needed to recover the costs associated with SCD. Consistent with the current rate structure, BPA would continue to set rates to fully recover the costs of SCD.

Option #1 – SCD costs are not allocated to the Southern Intertie or Montana Intertie

The Montana Intertie and Southern Intertie are not allocated costs associated with SCD. All SCD costs would be recovered by Network Load Service and Network Point-to-Point reservations.

Table 10.1
Calculation of Ancillary Service Rates

	(A) FY 2018/2019	(B) Source	(E) FY18/19 $000/Yr	(F) Sales (MW)
1	**Scheduling, System Control & Dispatch**			
2	Direct O&M	Rev Rqmt	75,867	
3	Overheads	Rev Rqmt	59,369	
4	Total O&M		135,235	
5	Depreciation	Rev Rqmt	33,444	
6	Financing costs	Rev Rqmt	4,349	
7	Planned net revenue	Rev Rqmt	24	
8	Total segmented SCD		**173,052**	
9	Revenue Credits	Table 3, lines 3 (H) & 15 (H)	-3,113	
10	WECC Costs	Table 3, lines 4 (H) & 16 (H)	-2,665	
11	Peak Costs	Table 3, lines 5 (H) & 17 (H)	-2,565	
12	Eastern Intertie Adjustment	Table 3, lines 10 (H) & 22 (H)	-53	
13	Industry Delivery Adjustment	Table 3, lines 11 (H) & 23 (H)	-11	
14	Subtotal SCD Costs	Sum of lines 8 through 13	**164,644**	
15	FPT revenue for SCD	Table 6, line 40 (D)	3,292	
16	Net SCD Costs	Line 14 - line 15	**161,352**	
17	**Sales Used for Cost Allocation**			
18	IR contract demand	Table 4, line 43 (O)		122
19	PTP contract demand w/o SDD	Table 4, line 45 (O)		26,104
20	Network Load Service	Table 4, line 52 (O)		7,620
~~21~~	~~Southern Intertie~~	~~Table 4, line 66 (O)~~		~~6,005~~
~~22~~	~~Montana Intertie~~	~~Table 4, line 72 (O)~~		~~16~~
23	Network Short-term	Table 7, line 22 & line 23 & line 24		1,765
~~24~~	~~Intertie Daily (Blocks 1 & 2)~~	~~Table 8, line 10 & line 11~~		~~14~~
~~25~~	~~Intertie Hourly~~	~~Table 8, line 7 * 7/5 * 24/16~~		~~155~~
~~26~~	~~Total Sales, SCD~~	~~Sum of lines 18 through 25~~		~~41,800~~
	Total Sales, SCD			**35,611**

The billing determinant for Network Load Service would remain as the customer's load at the time of the transmission system peak. The billing determinant for Network Point-to-Point would remain as reseved capacity of original reservations. Point-to-Point transmission would continue to have SCD rates that differ depending on the service duration (*i.e.* Hourly, Daily Days 1-5, and Daily Days 6 and beyond).

This rate design would not change the amount of revenue collected to recover the costs for SCD, it would only change which products recover those costs.

Option #2 – SCD is billed on schedules and metered load

Each unique customer on a tag is billed based on the energy profile, transmission profile or metered total energy as described below. If a tag includes PTP and NT segments with the same customer, that customer is billed on metered total energy.

This rate design would not change the amount of revenue collected to recover the costs for SCD, it would only change the billing determinant which recovers those costs.

Transmission Type	Billing Determinant
PTP Normal Tag	=Energy Profile MWh
PTP Dynamic Tag	=Transmission Profile MWh
NT	=Metered Total Energy MWh

Example 1: Tag with multiple customers and multiple segments

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Network	50	75
B	C	Cust 2	PTP	Network	50	75
C	D	Cust 2	PTP	Southern Intertie	50	75

Proposed Billing Determinants
Customer 1 is billed 50 MWh.
Customer 2 is billed 50 MWh.

Status Quo Determinants
Customer 1 is billed based on the reserved capacity of the original transmission request associated with the POR A > POD B transmission segment.

Customer 2 is billed based on the reserved capacity of the original transmission requests associated with the POR B > POD C and POR C > POD D transmission segments.

Example 2: Tag with multiple customers over a single segment

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Network	50	75
B	C	Cust 2	PTP	Network	50	75

Proposed Billing Determinants
Customer 1 is billed 50 MWh.
Customer 2 is billed 50 MWh.

Status Quo Billing Determinants
Customer 1 is billed based on the reserved capacity of the original transmission request associated with the POR A > POD B transmission segment.

Customer 2 is billed based on the reserved capacity of the original transmission request associated with the POR B > POD C transmission segment.

Example 3: Tag with a single customer and multiple segments

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Network	50	75
B	C	Cust 1	PTP	Southern Intertie	50	75
C	D	Cust 1	PTP	Network	50	75

Proposed Billing Determinant
Customer 1 is billed 50 MWh.

Status Quo Billing Determinants
Customer 1 is billed based on the reserved capacity of the original transmission requests associated with the POR A > POD B, POR B > POD C, and POR C > POD D transmission segments.

Example 4: Tag with a single customer and single segment

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Network	50	75
B	C	Cust 1	PTP	Network	50	75

Proposed Billing Determinants
Customer 1 is billed 50 MWh.

Status Quo Billing Determinant
Customer 1 is billed based on the reserved capacity of the original transmission requests associated with the POR A > POD B and POR B > POD C transmission segment.

Example 5: Dynamic Tag

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP - Dynamic	Network	50	75

Billing Determinants
Customer 1 is billed 75 MWh.

Status Quo Determinants
Customer 1 is billed based on the reserved capacity of the original transmission request associated with the POR A > POD B transmission segment.

Example 6: Tag with a single customer using PTP and NT

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Southern Intertie	50	75
B	C	Cust 1	NT	Network	50	75

Billing Determinants
Customer 1 is billed on metered total energy.

Status Quo Determinants
Customer 1 is billed based on the reserved capacity of the original transmission request associated with the POR A > POD B transmission segment.

Customer 1 is also billed for its NT service based on its load at the time of the transmission system peak.

Example 7: Tag with PTP customer and NT customer

POR	POD	Customer	Service Type	Transmission Segment	Energy MWh	Transmission Profile MWh
A	B	Cust 1	PTP	Southern Intertie	50	75
B	C	Cust 2	NT	Network	50	75

Billing Determinants
Customer 1 is billed 50 MWh.
Customer 2 is billed on metered total energy.

Status Quo Determinants
Customer 1 is billed based on the reserved capacity of the original transmission request associated with the POR A > POD B transmission segment.

Customer 2 is billed for its NT service based on its load at the time of the transmission system peak.