

**BP-22 BPA Rate Proceeding**

**BP-22-FS-BPA-08-E01**

**Errata Corrections to Transmission Rates Study and Documentation, BP-22-FS-BPA-08**

1. **Page 90, Table 10.3:** Corrections in the attached table are shown in blue font.

**Delete:** Table 10.3

**Replace with:** Table 10.3, attached

2. **Pages 91-92, Table 10.4:** Corrections in the attached table are shown in blue font.

**Delete:** Table 10.4

**Replace with:** Table 10.4, attached

3. **Pages 95-97, Table 12:** Corrections in the attached table are shown in blue font.

**Delete:** Table 12

**Replace with:** Table 12, attached

**Table 10.3 - Summary of Current and Proposed Generation Inputs Rates**  
**REV 8/11/2021**

	(A)	(B)	(C)	(D)	(E)
<b>Rate</b>		<b>Units</b>	<b>FY 2020/2021 Rates</b>	<b>FY 2022/2023 Rates</b>	<b>Percent Change</b>
1 <b>RFR</b>					
2 Non-EIM Regulation and Frequency Response		mills/kWh	0.49	<b>0.47</b>	<b>-4.1%</b>
3 <b>OR</b>					
4 Operating Reserves - Spinning		mills/kWh	9.53	11.05	15.9%
5 OR - Spinning Default		mills/kWh	10.96	12.71	16.0%
6 Operating Reserves - Supplemental		mills/kWh	8.32	7.22	<b>-13.2%</b>
7 OR - Supplemental Default		mills/kWh	9.57	8.30	<b>-13.3%</b>
8 <b>DERBS</b>					
9 Non-EIM DERBS Inc		mills/kW-hour	15.110	21.629	43.1%
10 Non-EIM DERBS Dec		mills/kW-hour	1.590	1.230	<b>-22.6%</b>
11 <b>VERBS - Wind</b>					
12 VERBS Uncommitted		mills/kW-mo	1.090		
13 Non-EIM VERBS Wind (BP-22)		mills/kW-mo		<b>0.806</b>	<b>-26%</b>
14 <b>VERBS - Solar</b>					
15 VERBS Solar Uncommitted		mills/kW-mo	0.910		
16 Non-EIM VERBS Solar (BP-22)		mills/kW-mo		<b>0.479</b>	<b>-47%</b>
17 <b>168HR In-Kind Loss Returns<sup>1</sup></b>		mills/kWh	0	0	0
18					
19 <b>EIM RFR<sup>2</sup></b>					
20 EIM Regulation and Frequency Response		mills/kWh	0.49	<b>0.44</b>	<b>-10.2%</b>
21					
22 <b>EIM DERBS<sup>2</sup></b>					
23 EIM DERBS Inc		mills/kW-hour	15.110	21.303	41.0%
24 EIM DERBS Dec		mills/kW-hour	1.590	1.240	<b>-22.0%</b>
25					
26 <b>EIM VERBS - Wind<sup>2</sup></b>					
27 VERBS Uncommitted		mills/kW-mo	1.090		
28 EIM VERBS Wind (BP-22)		mills/kW-mo		<b>0.753</b>	<b>-31%</b>
29					
30 <b>EIM VERBS - Solar<sup>2</sup></b>					
31 VERBS Solar Uncommitted		mills/kW-mo	0.910		
32 EIM VERBS Solar (BP-22)		mills/kW-mo		<b>0.456</b>	<b>-50%</b>

/1 Per BP-22 settlement agreement, Bonneville will not adopt a capacity charge for the delayed return of transmission losses for BP-22

/2 Per BP-22 settlement agreement, if BPA joins the Western EIM, a discount to balancing services will be provided based on the assumption of a 50% offset in hydro-shift costs and spill costs for non-regulation balancing reserves, as calculated through the GARD model.

**Table 10.4 - Calculation of Generation Inputs Rates**  
REV 8/11/2021

(A)	(B) Unit	(C) Costs (\$000)	(D) Quantity	(E)	(F) Rate
<b>1 Non-EIM Reserve Costs</b>					
2 Regulating Reserves inc	\$/kW-mo	\$7.84			
3 Regulating Reserves dec	\$/kW-mo	\$0.37			
4 Non-Regulating Reserves inc	\$/kW-mo	\$5.04			
5 Non-Regulating Reserves dec	\$/kW-mo	\$0.37			
6 Operating Reserves - Spinning	\$/kW-mo	\$8.07			
7 Operating Reserves - Supplemental	\$/kW-mo	\$5.27			
8					
<b>9 Balancing Reserve Amounts</b>			<b>INC</b>	<b>DEC</b>	
10 DERBS Regulating Reserves	aMW		10.883	-11.546	
11 DERBS Non-Regulating Reserves	aMW		0.019	-0.025	
12 Wind Regulating Reserves	aMW		125.428	-133.073	
13 Wind Non-Regulating Reserves	aMW		223.190	-300.082	
14 Solar Regulating Reserves	aMW		3.551	-3.767	
15 Solar Non-Regulating Reserves	aMW		2.482	-3.337	
16 Load Regulating Reserves	aMW		145.712	-154.590	
17 Load Non-Regulating Reserves	aMW		145.775	-195.999	
18 FedHydCGS Regulating Reserves	aMW		22.956	-24.354	
19 FedHydCGS Non-Regulating Reserves	aMW		0.004	-0.005	
20					
<b>21 Operating Reserves (OR)</b>					
22 Operating Reserves - Spinning	aMW	\$22,924	236.72		
23 Operating Reserves - Supplemental	aMW	\$14,970	236.72		
<b>24 Operating Reserves - Spinning Rate</b>	<b>mills per KWH</b>				<b>\$11.05</b>
25 Operating Reserves - Spinning Default Rate	mills per KWH				\$12.71
<b>26 Operating Reserves - Supplemental Rate</b>	<b>mills per KWH</b>				<b>\$7.22</b>
27 Operating Reserves - Supplemental Default Rate	mills per KWH				\$8.30
28					
<b>29 Regulation &amp; Frequency Response (RFR)</b>					
30 RFR Regulating Reserves	aMW	\$14,394	<b>5892</b>		
31 BP22 DERBS Settlement Cost Shift To RFR <sup>3</sup>		\$122			
32 RFR Non-Regulating Reserves	aMW	\$9,685			
33 Total RFR Costs		\$24,201			
<b>34 Non-EIM Regulation &amp; Frequency Response Rate</b>	<b>mills per KWH</b>				<b>\$0.47</b>
35					
<b>36 Dispatchable Energy Resource Balancing (DERBS)</b>					
37 DERBS Reserves Inc	monthly max dev	\$1,025	3102		
38 BP22 DERBS Settlement Cost Shift <sup>3</sup>		(\$220)			
39 DERBS Reserves Dec	monthly max dev	\$51	2729		
40 BP22 DERBS Settlement Cost Shift <sup>3</sup>		(\$11)			
<b>41 Non-EIM DERBS Inc Rate</b>					<b>\$21.629</b>
<b>42 Non-EIM DERBS Dec Rate</b>					<b>\$1.230</b>
43					
<b>44 Variable Energy Resource Balancing - VERBS Wind</b>					
45 VERBS Wind Regulating Reserves	aMW	\$12,390	<b>2834</b>		
46 BP22 DERBS Settlement Cost Shift To VERBS <sup>3</sup>		\$105			
47 VERBS Wind Non-Regulating Reserves	aMW	\$14,828			
<b>48 Non-EIM VERBS Wind Rate</b>	<b>\$ per KW-mo</b>				<b>\$0.806</b>
49					
<b>50 Variable Energy Resource Balancing - VERBS Solar</b>					
51 VERBS Solar Regulating Reserves	aMW	\$351	<b>102</b>		
52 BP22 DERBS Settlement Cost Shift To VERBS <sup>3</sup>		\$3			
53 VERBS Solar Non-Regulating Reserves	aMW	\$231			
<b>54 Non-EIM VERBS Solar Rate</b>	<b>\$ per KW-mo</b>				<b>\$0.479</b>
55					
<b>56 168 hour in-kind delay losses service<sup>1</sup></b>	<b>\$ per KW-hour</b>	<b>\$0</b>	<b>0</b>		<b>\$0.00</b>
57	MWh				

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/3 Per BP-22 Settlement DERBS rate increase will be limited to 50% of the calculated impact in the final proposal compared to BP-20. Excess costs will be allocated to other ACS rates (VERBS Wind, Solar, and RFR).

**Table 10.4 - Calculation of Generation Inputs Rates**  
REV 8/11/2021

(A)	(B) Unit	(C) Costs (\$000)	(D) Quantity	(E)	(F) Rate
58	<b>EIM Adjustment<sup>2</sup> with DERBS Settlement<sup>3</sup></b>				
59	<b>EIM Reserve Costs</b>				
60	Regulating Reserves inc <sup>2</sup>	\$/kW-mo			\$7.66
61	Regulating Reserves dec <sup>2</sup>	\$/kW-mo			\$0.37
62	Non-Regulating Reserves inc <sup>2</sup>	\$/kW-mo			\$4.86
63	Non-Regulating Reserves dec <sup>2</sup>	\$/kW-mo			\$0.10
64	Operating Reserves - Spinning	\$/kW-mo			\$8.07
65	Operating Reserves - Supplemental	\$/kW-mo			\$5.27
66					
67	<b>Balancing Reserve Amounts</b>		<b>INC</b>	<b>DEC</b>	
68	DERBS Regulating Reserves	aMW	10.883	-11.546	
69	DERBS Non-Regulating Reserves	aMW	0.019	-0.025	
70	Wind Regulating Reserves	aMW	125.428	-133.073	
71	Wind Non-Regulating Reserves	aMW	223.190	-300.082	
72	Solar Regulating Reserves	aMW	3.551	-3.767	
73	Solar Non-Regulating Reserves	aMW	2.482	-3.337	
74	Load Regulating Reserves	aMW	145.712	-154.590	
75	Load Non-Regulating Reserves	aMW	145.775	-195.999	
76	FedHydCGS Regulating Reserves	aMW	22.956	-24.354	
77	FedHydCGS Non-Regulating Reserves	aMW	0.004	-0.005	
78					
79	<b>EIM Regulation &amp; Frequency Response (RFR)</b>				
80	RFR Regulating Reserves	aMW	\$14,080	<b>5892</b>	
81	BP22 DERBS Settlement Cost Shift To RFR <sup>3</sup>		\$116		
82	RFR Non-Regulating Reserves	aMW	\$8,737		
83	Total RFR Costs		\$22,933		
84	<b>EIM Regulation &amp; Frequency Response Rate</b>	<b>mills per KWH</b>			<b>\$0.44</b>
85					
86	<b>EIM Dispatchable Energy Resource Balancing (DERBS)</b>				
87	DERBS Reserves Inc	monthly max dev	\$1,001	3102	
88	BP22 DERBS Settlement Cost Shift <sup>3</sup>		(\$208)		
89	DERBS Reserves Dec	monthly max dev	\$51	2729	
90	BP22 DERBS Settlement Cost Shift <sup>3</sup>		(\$11)		
91	<b>EIM DERBS Inc Rate</b>				<b>\$21.303</b>
92	<b>EIM DERBS Dec Rate</b>				<b>\$1.240</b>
93					
94	<b>EIM Variable Energy Resource Balancing - VERBS Wind</b>				
95	VERBS Wind Regulating Reserves	aMW	\$12,120	<b>2834</b>	
96	BP22 DERBS Settlement Cost Shift To VERBS <sup>3</sup>		\$100		
97	VERBS Wind Non-Regulating Reserves	aMW	\$13,377		
98	<b>EIM VERBS Wind Rate</b>	<b>\$ per KW-mo</b>			<b>\$0.753</b>
99					
100	<b>EIM Variable Energy Resource Balancing - VERBS Solar</b>				
101	VERBS Solar Regulating Reserves	aMW	\$343	<b>102</b>	
102	BP22 DERBS Settlement Cost Shift To VERBS <sup>3</sup>		\$3		
103	VERBS Solar Non-Regulating Reserves	aMW	\$212		
104	<b>EIM VERBS Solar Rate</b>	<b>\$ per KW-mo</b>			<b>\$0.456</b>

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**Table 12**  
**Revenue at FY 2020/2021 and 2022/2023 Rates**  
**REV 8/11/2021**

(A) Service	(B) Current FY 2020-2021 Rates		(C)	(D)	(E) Proposed FY 2022-2023 Rates		(F)	(G)	(H)
	FY 2020	FY 2021	Average FY 2020/2021	Average FY 2022/2023	FY 2022	FY 2023	Percent Change		
1 <b>Network Sales Revenues</b>									
2 FPT 1	20	20	20		21	21	21	6.2%	
3 FPT 3	-	-	-		-	-	-	0.0%	
4 Subtotal FPT Revenues	20	20	20		21	21	21	6.2%	
5 BP-2022 Transmission Ratio from Table 6	83.9%								
6 BP-2020 Transmission Ratio from Table 6	82.9%								
7 FPT 1&3 Transmission Portion	17	17	17		18	18	18	7.5%	
8									
9 NT_Base	143,123	145,603	144,363		164,135	166,979	165,557	14.7%	
10 NT Ancillary Revenues	30,023	30,534	30,279		31,997	32,542	32,269	6.6%	
11 Subtotal NT Sale Revenues	<b>173,146</b>	<b>176,137</b>	<b>174,642</b>		<b>196,132</b>	<b>199,521</b>	<b>197,827</b>	<b>13.3%</b>	
12 PTP, Long-term	508,776	508,550	508,663		546,943	546,699	546,821	7.5%	
13 PTP LT Ancillary Revenues	105,976	105,929	105,952		105,641	105,595	105,618	-0.3%	
14 PTP, Short-term	27,344	27,108	27,226		29,528	29,273	29,400	8.0%	
15 PTP ST Ancillary Revenues	5,616	5,568	5,592		5,616	5,568	5,592	0.0%	
16 Subtotal PTP Sale Revenues	<b>647,712</b>	<b>647,154</b>	<b>647,433</b>		<b>687,727</b>	<b>687,135</b>	<b>687,431</b>	<b>6.2%</b>	
17 Subtotal Network Transmission Revenues	679,260	681,278	680,269		740,623	742,969	741,796	9.0%	
18 Percent of total			82.7%				83.8%	1.3%	
19 Subtotal Network Ancillary Revenues	141,618	142,034	141,826		143,258	143,707	143,483	1.2%	
20 Percent of total			17.3%				16.2%		
21 <b>Total Network Sale Revenues</b>	<b>820,878</b>	<b>823,312</b>	<b>822,095</b>		<b>883,881</b>	<b>886,677</b>	<b>885,279</b>	<b>7.7%</b>	
22 <b>Intertie Sale Revenues</b>									
23 IM, Long-term	178	340	259		184	352	268	3.6%	
24 IS, Long-term	78,373	78,373	78,373		80,831	80,831	80,831	3.1%	
25 IS LT Ancillary Revenues	22,919	22,919	22,919		22,847	22,847	22,847	-0.3%	
26 IS, Short-term	3,963	4,040	4,001		4,086	4,165	4,126	3.1%	
27 IS ST Ancillary Revenues	370	377	374		370	377	374	0.0%	
28 Subtotal IS Sale Revenues	<b>105,625</b>	<b>105,710</b>	<b>105,668</b>		<b>108,134</b>	<b>108,221</b>	<b>108,177</b>	<b>2.4%</b>	
29 Subtotal Intertie Transmission Revenues	82,514	82,753	82,634		85,101	85,349	85,225	3.1%	
30 Subtotal Intertie Ancillary Revenues	23,289	23,296	23,293		23,217	23,224	23,221	-0.3%	
31 <b>Total Intertie Sale Revenues</b>	<b>105,803</b>	<b>106,050</b>	<b>105,927</b>		<b>108,319</b>	<b>108,573</b>	<b>108,446</b>	<b>2.4%</b>	

Errata Corrections  
BP-22-FS-BPA-08-E01

**Table 12**  
**Revenue at FY 2020/2021 and 2022/2023 Rates**  
**REV 8/11/2021**

(A) Service	(B) Current FY 2020-2021 Rates		(C)	(E) Proposed FY 2022-2023 Rates		(G)	(H)
	FY 2020	FY 2021	(D) Average FY 2020/2021	FY 2022	FY 2023	Average FY 2022/2023	Percent Change
32 <b>Ancillary Revenues</b>							
33 Long-term Scheduling, Control and Dispatch	128,895	128,848	128,871	128,488	128,441	128,465	-0.3%
34 Short-term Scheduling, Control and Dispatch	5,986	5,945	5,966	5,986	5,945	5,966	0.0%
35 NT Scheduling, Control and Dispatch	30,023	30,534	30,279	31,997	32,542	32,269	6.6%
36 Subtotal SCD Rate	<b>164,904</b>	<b>165,327</b>	<b>165,115</b>	<b>166,471</b>	<b>166,928</b>	<b>166,700</b>	<b>1.0%</b>
37 FPT SCD	3	3	3	3	3	3	-0.3%
38 Total SCD Revenue	<b>164,907</b>	<b>165,330</b>	<b>165,119</b>	<b>166,475</b>	<b>166,931</b>	<b>166,703</b>	<b>1.0%</b>
39 Non-EIM Regulation and Frequency Response	<b>25,291</b>	<b>25,291</b>	<b>25,291</b>	<b>24,259</b>	<b>24,259</b>	<b>24,259</b>	<b>-4.1%</b>
40 <b>Balancing Reserves (VERBS Wind, VERBS Solar, DERBS)</b>	<b>38,905</b>	<b>38,905</b>	<b>38,905</b>	<b>28,840</b>	<b>28,840</b>	<b>28,840</b>	<b>-25.9%</b>
41 Non-EIM VERBS	<b>38,291</b>	<b>38,291</b>	<b>38,291</b>	<b>27,995</b>	<b>27,995</b>	<b>27,995</b>	<b>-26.9%</b>
42 Non-EIM DERBS	615	615	615	845	845	845	37.6%
43 Operating Reserves - Spinning	19,762	19,762	19,762	22,914	22,914	22,914	15.9%
44 Operating Reserves - Supplemental	17,253	17,253	17,253	14,972	14,972	14,972	-13.2%
45 Energy Imbalance	-	-	-	-	-	-	0.0%
46 Generation Imbalance	-	-	-	-	-	-	0.0%
47 168 Hr delay <sup>1</sup>	-	-	-	n/a	n/a	n/a	0.0%
48 <b>Total Ancillary Revenues</b>	<b>266,119</b>	<b>266,542</b>	<b>266,331</b>	<b>257,460</b>	<b>257,917</b>	<b>257,689</b>	<b>-3.2%</b>
49 Subtotal less SCD	<b>101,212</b>	<b>101,212</b>	<b>101,212</b>	<b>90,986</b>	<b>90,986</b>	<b>90,986</b>	<b>-10.1%</b>
50 <b>Delivery</b>							
51 Utility Delivery	2,418	2,430	2,424	3,022	3,038	3,030	<b>25.0%</b>
52 <b>Regional Compliance Enforcement</b>							
53 Regional Compliance Enforcement Rate	2,638	2,686	2,662	2,111	2,149	2,130	<b>-20.0%</b>
54 <b>Regional Coordinator</b>							
55 Regional Coordinator Rate	2,111	2,149	2,130	2,111	2,149	2,130	<b>0.0%</b>
56 <b>General Transmission Rates Subtotal</b>	<b>1,035,060</b>	<b>1,037,838</b>	<b>1,036,449</b>	<b>1,090,429</b>	<b>1,093,570</b>	<b>1,091,999</b>	<b>5.36%</b>
57 <b>Subtotal less Generation Input Ancillaries</b>	<b>933,848</b>	<b>936,626</b>	<b>935,237</b>	<b>999,443</b>	<b>1,002,585</b>	<b>1,001,014</b>	<b>7.03%</b>

**Table 12**  
**Revenue at FY 2020/2021 and 2022/2023 Rates**  
**REV 8/11/2021**

(A) Service	(B) Current FY 2020-2021 Rates		(C)	(D)	(E) Proposed FY 2022-2023 Rates		(F)	(G)	(H)
	FY 2020	FY 2021	Average FY 2020/2021	Average FY 2022/2023	FY 2022	FY 2023	FY 2022/2023	Percent Change	
	<b>Other Revenues</b>								
58 SINT AC NON FEDERAL O&M	2,210	2,210	2,210	2,210	2,210	2,210	2,210	2,210	0.0%
59 DSI DELIVERY CHARGE	408	408	408	408	408	408	408	408	0.0%
61 FIBER OPERATIONS & MAINTENANCE	1,735	1,735	1,735	1,735	1,955	1,202	1,578	1,578	-9.0%
62 FIBER LEASES	7,676	7,676	7,676	7,676	7,743	5,606	6,675	6,675	-13.0%
63 LAND USE/LEASE/SALE	216	216	216	216	216	216	216	216	0.0%
64 RIGHT-OF-WAY LEASE	79	79	79	79	79	79	79	79	0.0%
65 MISC SERVICE FEES	3	3	3	3	3	3	3	3	0.0%
66 TRANSMISSION PROCESSING FEE	40	40	40	40	40	40	40	40	0.0%
67 AMORT NONFED PNW AC INTERTIE	3,488	3,488	3,488	3,488	3,488	3,488	3,488	3,488	0.0%
68 O&M FEDERAL FACILITY	234	234	234	234	234	234	234	234	0.0%
69 O&M NON-FEDERAL FACILITY	1,093	1,093	1,093	1,093	1,093	1,093	1,093	1,093	0.0%
70 MISC LEASES	105	105	105	105	105	105	105	105	0.0%
71 BPA EQUIPMENT USE	186	186	186	186	186	186	186	186	0.0%
72 TRANSMISSION OPERATOR SERVICES	673	673	673	673	673	673	673	673	0.0%
73 3RD AC RAS GENERATION DROPPING	61	61	61	61	38	38	38	38	-37.1%
74 PTP RESERVATION FEE	379	379	379	379	379	333	356	356	-6.1%
75 TS SHARE OF RES ENRGY/WHLG-COE	246	246	246	246	246	246	246	246	0.0%
76 UFT FIXED DOLLAR AMOUNT	3,622	3,622	3,622	3,622	3,420	3,406	3,413	3,413	-5.8%
77 UFT VARIABLE SERVICE AMT	228	228	228	228	228	228	228	228	0.0%
78 PCS WIRELESS LEASES	7,008	7,008	7,008	7,008	7,008	7,008	7,008	7,008	0.0%
79 PCS CONSTRUCTION	3,900	3,900	3,900	3,900	3,720	3,720	3,720	3,720	-4.6%
80 PCS OPERATIONS & MAINTENANCE	312	312	312	312	312	312	312	312	0.0%
81 Generation Integration BBL	13,138	13,233	13,186	13,186	14,723	14,809	14,766	14,766	12.0%
82 TGT Revenues	12,456	12,456	12,456	12,456	12,228	12,228	12,228	12,228	-1.8%
83 <b>Other Revenues Subtotal</b>	<b>59,497</b>	<b>59,591</b>	<b>59,544</b>	<b>59,544</b>	<b>60,736</b>	<b>57,872</b>	<b>59,304</b>	<b>59,304</b>	<b>-0.4%</b>
84 <b>Total Revenue</b>	<b>1,094,557</b>	<b>1,097,429</b>	<b>1,095,993</b>	<b>1,095,993</b>	<b>1,151,164</b>	<b>1,151,442</b>	<b>1,151,303</b>	<b>1,151,303</b>	<b>5.0%</b>

/1 1/ Per BP-22 settlement agreement, Bonneville will not adopt a capacity charge for the delayed return of transmission losses for BP-22

**EIM Ancillary Services Summary<sup>2</sup>**

85 EIM Regulation and Frequency Response	25,291	25,291	25,291	25,291	22,710	22,710	22,710	22,710	-10.2%
86 <b>EIM Balancing Reseves (VERBS Wind, VERBS Solar, DERBS)</b>	<b>37,682</b>	<b>37,682</b>	<b>37,682</b>	<b>37,682</b>	<b>26,998</b>	<b>26,998</b>	<b>26,998</b>	<b>26,998</b>	<b>-28.4%</b>
87 EIM VERBS	37,067	37,067	37,067	37,067	26,165	26,165	26,165	26,165	-29.4%
88 EIM DERBS	615	615	615	615	834	834	834	834	35.6%
89 Energy Imbalance	-	-	-	-	-	-	-	-	0.0%
90 Generation Imbalance	-	-	-	-	-	-	-	-	0.0%
91 168 Hr delay	-	-	-	-	-	-	-	-	0.0%
92 <b>EIM Total Ancillary Revenues</b>	<b>62,973</b>	<b>62,973</b>	<b>62,973</b>	<b>62,973</b>	<b>49,709</b>	<b>49,709</b>	<b>49,709</b>	<b>49,709</b>	<b>-38.56%</b>

2/ Per BP-22 settlement agreement, if BPA joins the Western EIM, a discount to balancing services will be provided based on the assumption of a 50% offset in hydro-shift costs and spill costs for non-regulation balancing reserves, as calculated through the GARD model.

Errata Corrections  
 BP-22-FS-BPA-08-E01