



## T1SFCO for FY 2014-15 Rate Period



# Federal Tier 1 System Firm Critical Output

## 2014-2015 Fiscal Years RHWM Process - Study 80 (preliminary)

1.	Draft T1SFCO Projections (Study 80) Energy in aMW	2014	2015	Average
2.	Total Federal System Hydro Generation (Table 3.1)	6,907	6,784	6,846
3.	Total Designated Non-Federally Owned Resources (Table 3.2)	1,098	945	1,022
4.	Total Designated BPA Contract Purchases (Table 3.3)	161	156	159
5.	Total Designated System Obligations (Table 3.4)	(984)	(951)	(967)
6.	<b>Federal Tier 1 System Firm Critical Output</b>	<b>7,183</b>	<b>6,935</b>	<b>7,059</b>

## 2012-2013 Fiscal Years CHWM Process - Study 75

1.	T1SFCO Projections (Study 75) Energy in aMW	2012	2013	Average
2.	Total Federal System Hydro Generation (Table 3.1)	6,943	6,942	6,942
3.	Total Designated Non-Federally Owned Resources (Table 3.2)	1,103	951	1,027
4.	Total Designated BPA Contract Purchases (Table 3.3)	387	385	386
5.	Total Designated System Obligations (Table 3.4)	(1,231)	(1,210)	(1,221)
6.	<b>Federal Tier 1 System Firm Critical Output</b>	<b>7,202</b>	<b>7,067</b>	<b>7,135</b>

## Federal Tier 1 System Firm Critical Output

T1SFCO Projection Differences (Study 80-Study 75) Energy in aMW	Study 80 (prelim) 2-Year Average	Study 75 2-Year Average	Difference
<b>1. Table 3.1: Total Federal System Hydro Generation</b>	<b>6,846</b>	<b>6,942</b>	<b>(97)</b>
<i>a) Regulated Hydro Generation         (HYDSIM &amp; Encroachments)</i>			<i>(72)</i>
<i>b) Independent Hydro updates</i>			<i>(24)</i>
<b>2. Table 3.2: Total Designated Non-Federally Owned Resources</b>	<b>1,022</b>	<b>1,027</b>	<b>(5)</b>
<i>a) Changed to annual firm wind</i>			<i>(5)</i>
<b>3. Table 3.3: Total Designated BPA Contract Purchases</b>	<b>159</b>	<b>386</b>	<b>(227)</b>
<i>a) Removed netted BPA Tx contracts         (So. Idaho, Harney and Wells)</i>			<i>(220)</i>
<i>b) Expiration of PPL Seasonal Exchange</i>			<i>(4)</i>
<i>c) Miscellaneous</i>			<i>(3)</i>
<b>4. Table 3.4: Total Designated System Obligations</b>	<b>(967)</b>	<b>(1,221)</b>	<b>253</b>
<i>a) Removed netted BPA Tx contracts         (So. Idaho, Harney and Wells)</i>			<i>220</i>
<i>b) Canadian Entitlement Return to Canada</i>			<i>26</i>
<i>c) Federal Power Tx Losses</i>			<i>9</i>
<i>d) Miscellaneous</i>			<i>(3)</i>
<b>5. Difference Federal Tier 1 System Firm Critical Output (Lines 1+2+3+4)</b>	<b>7,059</b>	<b>7,135</b>	<b>(76)</b>

# Federal Tier 1 System Firm Critical Output

Table 3.1: Federal System Hydro Generation (Prelim 2014 T1SFCO Process - Study 80)  
Energy in aMW

1.	Regulated Hydro	2014	2015	Average
2.	Albeni Falls	25.3	25.8	25.5
3.	Bonneville Hydro	408.2	397.9	403.0
4.	Chief Joseph Hydro	1,142.0	1,110.7	1,126.4
5.	Dworshak Hydro	142.7	142.7	142.7
6.	Grand Coulee Hydro	1,951.4	1,904.8	1,928.1
7.	Hungry Horse	83.8	83.8	83.8
8.	Ice Harbor Hydro	154.6	154.6	154.6
9.	John Day Hydro	825.5	810.4	817.9
10.	Libby	182.1	182.1	182.1
11.	Little Goose Hydro	175.8	175.8	175.8
12.	Lower Granite Hydro	168.7	168.9	168.8
13.	Lower Monumental Hydro	179.9	179.9	179.9
14.	McNary Hydro	494.0	484.5	489.3
15.	The Dalles Hydro	619.4	608.5	614.0
16.	Independent Hydro			
17.	Anderson Ranch	13.0	13.0	13.0
18.	Big Cliff	9.7	9.7	9.7
19.	Black Canyon	6.2	6.2	6.2
20.	Boise River Diversion	1.1	1.1	1.1
21.	Bonneville Fishway (Already Included in new Bonneville PNCA plant data)	0.0	0.0	0.0
22.	Chandler	5.6	5.6	5.6
23.	Cougar	18.8	18.8	18.8
24.	Cowlitz Falls	26.2	26.2	26.2
25.	Detroit	33.3	33.3	33.3
26.	Dexter	9.3	9.3	9.3
27.	Foster	12.2	12.2	12.2
28.	Green Peter	26.9	26.9	26.9
29.	Green Springs - USBR	7.3	7.3	7.3
30.	Hills Creek	17.8	17.8	17.8
31.	Idaho Falls - City Plant	4.1	4.1	4.1
32.	Idaho Falls - Lower Plant 1 & 2	5.7	5.7	5.7
33.	Idaho Falls - Upper Plant	4.1	4.1	4.1
34.	Lookout Point	35.3	35.3	35.3
35.	Lost Creek	30.0	30.0	30.0
36.	Minidoka	11.2	11.2	11.2
37.	Palisades	69.2	69.2	69.2
38.	Roza	6.9	6.9	6.9
<b>39.</b>	<b>Total Federal System Hydro Generation</b>	<b>6,907.2</b>	<b>6,784.3</b>	<b>6,845.8</b>

- Independent Hydro estimates are updated based on project owners' data reflecting 2010-level Modified Streamflows.
- Bonneville Fishway generation is included in Bonneville Dam's Regulated Hydro using the updated h/k plant data included in 2012 PNCA data.

# Federal Tier 1 System Firm Critical Output

**Table 3.2: Designated Non-Federally Owned Resources (Prelim 2014 T1SFCO Process - Study 80)  
Energy in aMW**

1.	Project	2014	2015	Average
2.	Ashland Solar Project	0.0	0.0	0.0
3.	Columbia Generating Station	1,030.0	877.6	953.8
4.	Condon Wind Project	9.6	9.6	9.6
5.	Dworshak/Clearwater Small Hydropower	2.6	2.6	2.6
6.	Elwha Hydro (Generation off-line beginning 6/1/2011)	0.0	0.0	0.0
7.	Foote Creek 1	4.0	4.0	4.0
8.	Foote Creek 2	0.5	0.5	0.5
9.	Foote Creek 4	4.4	4.4	4.4
10.	Fourmile Hill Geothermal (Not included)	0.0	0.0	0.0
11.	Georgia-Pacific Paper (Wauna)	19.2	19.2	19.2
12.	Glines Canyon Hydro (Generation off-line beginning 6/1/2011)	0.0	0.0	0.0
13.	Klondike I	6.8	6.8	6.8
14.	Stateline Wind Project	20.7	20.7	20.7
15.	White Bluffs Solar	0.0	0.0	0.0
16.	<b>Total Designated Non-Federally Owned Resources</b>	<b>1,097.9</b>	<b>945.5</b>	<b>1,021.7</b>

- Highlighted rows reflect changes since the BP-12 study.

# Federal Tier 1 System Firm Critical Output

**Table 3.3: Designated BPA Contract Purchases (Draft 2014 T1SFCO Process - Study 80)  
Energy in aMW**

1.	Contract Purchases	Contract #	2014	2015	Average
2.	Priest Rapids CER for Canada	97PB-10099	29.1	29.2	29.2
3.	Rock Island #1 CER for Canada	97PB-10102	11.0	11.0	11.0
4.	Rock Island #2 CER for Canada	97PB-10102	7.0	7.0	7.0
5.	Rock Reach CER for Canada	97PB-10103	37.3	37.4	37.4
6.	Wanapum CER for Canada	97PB-10100	28.2	28.2	28.2
7.	Wells CER for Canada	97PB-10101	23.9	23.9	23.9
8.	BCHP to BPA PwrS	99PB-22685	1.0	1.0	1.0
9.	PASA to BPA Pk Repl	DE-MS79-94BP93658	1.1	0.0	0.6
10.	PASA to BPA S/N/X	DE-MS79-94BP93658	0.4	0.3	0.3
11.	PASA to BPA Xchg Nrg	DE-MS79-94BP93658	1.9	1.6	1.7
12.	PPL to BPA So Idaho (netted 0 with Table 3.4 line 26)	89BP-92524	0.0	0.0	0.0
13.	RVSD to BPA Pk Repl	94BP-93958	4.9	5.0	5.0
14.	RVSD to BPA Seas Xchg	94BP-93958	4.3	4.3	4.3
15.	RVSD to BPA Xchg Nrg	94BP-93958	7.3	7.3	7.3
16.	SPP to BPA Harney Wells (netted 0 with Table 3.4 line 21)	88BP-92436	0.0	0.0	0.0
17.	PPL to BPA SNX (Spring Return)	DE-MS79-94BP94332	0.0	0.0	0.0
18.	PPL to BPA SPX (Summer Return)	DE-MS79-94BP94332	3.8	0.0	1.9
19.	<b>Total Designated BPA Contract Purchases</b>		<b>161.3</b>	<b>156.3</b>	<b>158.8</b>

- Lines 12 & 16 were updated to reflect the zeroing out of transmission pass-through contracts that netted to zero and are no longer going to be reflected in the studies. In Study 75 these contracts were included (~220 aMW) but were offset by obligations (also ~220 aMW) in Table 3.4 lines 21 & 26 such that the purchases and obligations for transmission pass-through netted to zero. Because they netted to zero in the previous study's T1SFCO, this change does not affect the overall Federal T1SFCO.

# Federal Tier 1 System Firm Critical Output

Table 3.4: Designated BPA System Obligations (Draft 2014 T1SFCO Process - Study 80)  
Energy in aMW

1.	System Obligations	Contract #	2014	2015	Average
2.	BPA to BRCB Columbia Basin Project	lbp-4512; 14-03-001-12160	135.5	135.5	135.5
3.	BPA to BRCJ Chief Joseph	14-03-17506; 14-03-49151	8.2	8.2	8.2
4.	BPA to BRCR Crooked River Project	14-03-73152	1.1	1.1	1.1
5.	BPA to BROP Owyhee Project	EW-78-Y-83-00019	3.4	3.4	3.4
6.	BPA to BRRP Rathdrum Prairie Project	14-03-49151	0.7	0.7	0.7
7.	BPA to BRSID Southern Idaho Projects	EW-78-Y-83-00019	19.6	19.6	19.6
8.	BPA to BRSIN Spokane Indian Development	14-03-49151	0.3	0.3	0.3
9.	BPA to BRSV Spokane Valley	14-03-63656	0.7	0.7	0.7
10.	BPA to BRTD The Dallas Reclamation Project	14-03-32210	2.0	2.0	2.0
11.	BPA to BRTV Tualatin Project	14-03-49151	0.6	0.6	0.6
12.	BPA to BRUB Umatilla Basin Project	10GS-75345	0.0	0.0	0.0
13.	BPA to BRYK Yakima Project	DE-MS79-88BP9259	1.7	1.7	1.7
14.	BPA To BCHA Can Ent	99EO-40003	499.6	474.6	487.1
15.	BPA to BHEC 2012PSC	97PB-10051	5.2	5.2	5.2
16.	BPA to PASA C/N/X	94BP-93658	1.1	0.0	0.6
17.	BPA to PASA S/N/X	94BP-93658	0.4	0.0	0.2
18.	BPA to RVSD C/N/X	94BP-93958	4.9	5.0	5.0
19.	BPA to RVSD Seas Xchg	94BP-93958	4.3	4.3	4.3
20.	Federal Intertie Losses (Calculated: 3.0% of Intertie Sales in Table 3.4 lines 16-19)	-Calculated-	0.3	0.3	0.3
21.	BPA to SPP Pwr S (netted 0 with Table 3.3 line16)	88BP-92436	0.0	0.0	0.0
22.	BPA to AVWP WP3 S	85BP-92186	45.3	45.6	45.5
23.	BPA to PPL SNX (Spring Delivery)	94BP-94332	0.0	0.0	0.0
24.	BPA to PPL SPX (Summer Delivery)	94BP-94332	0.0	0.0	0.0
25.	BPA to PSE Pwr S (Up. Baker 2)	09PB-12126	0.8	0.8	0.8
26.	BPA to PPL SolD (netted 0 with Table 3.3 line 12)	89BP-92524	0.0	0.0	0.0
27.	BPA to PSE WP3 S	85BP-92185	45.3	45.6	45.5
28.	BPAP to BPAT (Ditmer/Substation Service)	09PB-12128	9.1	9.1	9.1
29.	Federal Power Trans. Losses (Calculated: 2.82% of totals in Tables 3.1, 3.2, & 3.3)	-Calculated-	230.3	222.4	226.3
30.	Transmission Returns (Slice) (27.027%*1.9%* sum of Tables 3.1, 3.2, & 3.3 less sum of Table 3.4 lines 1-29)	-Calculated-	-36.7	-35.4	-36.1
31.	<b>Total Designated System Obligations</b>		<b>983.7</b>	<b>951.2</b>	<b>967.4</b>

- Lines 21 & 26 were updated to reflect the zeroing out of transmission pass-through obligations that netted to zero and are no longer going to be reflected in the studies. In Study 75 these obligations were included (~220 aMW) but were offset by contracts (also ~220 aMW) in Table 3.3 lines 12 & 16 such that the purchases and obligations for transmission pass-through netted to zero. Because they netted to zero in the previous study's T1SFCO, this change does not affect the overall Federal T1SFCO.