
Exhibits 5 – 7

*Federal System Monthly Capacity Analysis Under The 2002 White Book Load
Forecast for 1937-Water Conditions*

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Exhibit 5: OY 2003-04 Monthly Capacity

*Loads and Resources - Federal System
PNW Loads and Resource Study
2003 - 2004 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

Capacity in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	174	174	151	169	186	207	207	239	211	190	190	200	192	190
USBR 2002 PSC Sale	227	227	161	96	24	15	15	12	54	222	222	252	240	267
DSI 2002 PSC Sale	31	31	31	762	762	762	762	762	762	762	762	762	762	762
Total Firm Non-Utility Obligations	432	432	343	1028	973	984	983	1013	1027	1174	1174	1214	1194	1219
Transfers Out														
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3529	3529	3488	3897	4266	4638	4820	4659	4262	4052	4052	3926	3726	3726
GPU 2002 PSC Sale	2071	2071	2184	2359	2801	3161	3207	3184	2942	2594	2594	2398	2012	2046
NGP Slice Sale	1276	1266	1213	1178	1265	1335	1385	1379	1329	1221	1275	1309	1329	1309
GPU Slice Sale	2125	2108	2021	1961	2107	2223	2307	2296	2213	2033	2124	2179	2213	2181
IOU 2002 PSC Sale	382	382	382	382	382	382	382	382	382	382	382	382	382	382
Exports	2204	2204	2119	1943	1887	1907	1827	1818	1812	1833	1833	1911	1917	1947
Intra-Regional Transfers (Out)	2560	2560	1614	1114	1331	1385	1159	1115	1005	928	928	756	809	698
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	-765	-765	-763	-781	-727	-561	-577	-566	-746	-705	-705	-812	-801	-808
Total Transfers Out	13382	13354	12258	12053	13312	14471	14510	14266	13199	12337	12482	12050	11585	11481
Total Firm Obligations	13814	13786	12602	13081	14285	15455	15493	15280	14226	13511	13656	13264	12780	12700
Hydro Resources														
Regulated Hydro	16119	15984	15222	14708	15841	16802	17381	17183	16497	15243	15913	16378	16686	16568
Independent Hydro	745	757	739	744	711	673	644	760	820	845	845	884	886	762
Sustained Peaking Adjustment	-100	-100	-1293	0	0	-207	-4654	-4100	-3247	-2123	-4116	-2774	-1500	-700
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	248	248	248	249	249	250	249	249	250	248	248	248	248	248
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	17012	16889	14915	15701	16801	17518	13620	14091	14320	14213	12890	14736	16320	16877
Other Resources														
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	185	185	214	248	304	358	307	263	232	215	215	75	93	159
Intra-Regional Transfers (In)	1538	1538	1620	1535	1535	1478	1288	1288	1288	1038	638	538	538	1288
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
Non-Utility Generation	35	35	18	33	42	33	33	33	33	33	33	50	33	30
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	2935	2935	3030	2995	3060	3050	2810	2765	2734	2466	2066	1840	1842	2654
Total Resources	19947	19824	17945	18696	19861	20568	16430	16856	17054	16679	14956	16576	18162	19531
Reserves & Maintenance														
Hydro Reserves	-843	-837	-798	-773	-828	-874	-901	-897	-866	-804	-838	-863	-879	-866
Small Thermal & Misc. Reserves	-3.1	-3.1	-2.3	-3.1	-3.5	-3.2	-3.3	-3.2	-3.2	-3.2	-3.2	-3.8	-3	-2.9
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172
Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
Spinning Reserves	-352	-362	-313	-334	-361	-399	-312	-312	-318	-313	-286	-333	-375	-360
Federal Transmission Losses	-513	-526	-465	-491	-529	-578	-457	-455	-462	-446	-397	-450	-506	-514
Total Reserves, Maintenance & Losses	-5147	-4661	-4520	-4525	-4599	-3893	-3254	-3723	-3736	-3801	-3501	-3579	-3570	-4700
Total Net Resources	14800	15164	13425	14171	15261	16675	13176	13133	13318	12878	11455	12997	14592	14831
Total Firm Surplus/Deficit	986	1377	823	1090	977	1220	-2317	-2147	-908	-633	-2201	-267	1813	2131

Exhibit 6: OY 2007-08 Monthly Capacity

*Loads and Resources - Federal System
PNW Loads and Resource Study
2007 - 2008 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

Capacity in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	179	180	159	172	191	210	210	241	214	192	192	202	193	191
USBR 2002 PSC Sale	227	227	161	96	24	15	15	12	54	222	222	252	240	267
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	407	407	320	269	215	225	225	253	268	414	414	454	433	457
Transfers Out														
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	3997	3997	3952	4290	4697	5070	5255	5094	4668	4451	4451	4295	4105	4100
GPU 2002 PSC Sale	2295	2295	2526	2677	3078	3497	3458	3422	3209	2768	2768	2513	2151	2249
NGP Slice Sale	1280	1270	1217	1181	1269	1338	1389	1383	1332	1225	1279	1312	1332	1313
GPU Slice Sale	2132	2114	2027	1968	2114	2229	2313	2303	2218	2040	2130	2186	2219	2187
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	1512	1512	1503	1464	1412	1435	1432	1421	1415	1434	1408	1458	1464	1475
Intra-Regional Transfers (Out)	588	588	617	683	900	954	928	884	774	747	747	575	628	642
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	-871	-871	-884	-868	-799	-615	-626	-614	-814	-763	-763	-871	-870	-885
Total Transfers Out	10933	10906	10959	11395	12671	13908	14149	13892	12801	11901	12020	11467	11030	11082
Total Firm Obligations	11340	11313	11278	11664	12886	14134	14375	14146	13069	12315	12435	11922	11463	11540
Hydro Resources														
Regulated Hydro	16119	15984	15222	14708	15841	16802	17381	17183	16497	15243	15913	16378	16686	16568
Independent Hydro	745	757	739	744	711	673	644	760	820	845	845	884	886	762
Sustained Peaking Adjustment	-100	-100	-1293	0	0	0	-4654	-4100	-3018	-2123	-4116	-2743	-1500	-700
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	248	248	248	248	249	249	249	249	249	248	248	248	248	248
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	17012	16889	14915	15700	16801	17724	13620	14091	14547	14213	12890	14767	16320	16877
Other Resources														
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	88	88	117	153	206	260	234	190	162	165	165	75	93	109
Intra-Regional Transfers (In)	0	0	23	23	23	0	0	0	0	0	0	0	0	0
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
Non-Utility Generation	54	54	54	54	54	54	54	54	54	54	54	54	54	54
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1319	1319	1371	1408	1462	1495	1470	1425	1397	1399	1399	1306	1324	1340
Total Resources	18331	18208	16286	17108	18262	19219	15089	15516	15944	15612	14289	16073	17645	18217
Reserves & Maintenance														
Hydro Reserves	-843	-837	-798	-773	-828	-874	-901	-897	-866	-804	-838	-863	-879	-866
Small Thermal & Misc. Reserves	-4	-4	-4	-4.1	-4.1	-4.2	-4.3	-4.2	-4.2	-4.2	-4.2	-4	-4	-4
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172
Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
Spinning Reserves	-353	-362	-314	-334	-362	-405	-313	-313	-324	-314	-286	-334	-375	-361
Federal Transmission Losses	-459	-471	-410	-438	-475	-533	-412	-410	-424	-411	-375	-434	-488	-470
Total Reserves, Maintenance & Losses	-5094	-4608	-4467	-4473	-4546	-3854	-3210	-3680	-3706	-3767	-3480	-3563	-3554	-4658
Total Net Resources	13237	13600	11819	12635	13716	15365	11879	11836	12238	11845	10809	12510	14091	13559
Total Firm Surplus/Deficit	1897	2288	540	971	830	1231	-2495	-2310	-830	-470	-1626	588	2628	2019

Exhibit 7: OY 2012-13 Monthly Capacity

*Loads and Resources - Federal System
PNW Loads and Resource Study
2012 - 2013 Operating Year
1937 Water Year
2002 White Book*

9/9/2003

Capacity in Megawatts	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul
Non-Utility Obligations														
Federal Agencies 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USBR 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSI 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Agencies 2002 PSC Sale	180	180	162	175	195	213	214	243	217	193	193	203	193	190
USBR 2002 PSC Sale	227	227	161	96	24	15	15	12	54	222	222	252	240	267
DSI 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Firm Non-Utility Obligations	408	408	323	271	220	228	229	255	271	416	416	455	432	457
Transfers Out														
NGP 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GPU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOU 1981 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NGP 2002 PSC Sale	4292	4292	4254	4598	5009	5439	5591	5444	4983	4734	4734	4594	4401	4405
GPU 2002 PSC Sale	2360	2360	2588	2797	3212	3634	3617	3544	3357	2890	2890	2636	2232	2336
NGP Slice Sale	1280	1270	1217	1181	1269	1338	1389	1383	1332	1224	1279	1235	1255	1313
GPU Slice Sale	2132	2114	2027	1968	2114	2229	2313	2303	2218	2039	2130	2056	2090	2187
IOU 2002 PSC Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports	1460	1460	1449	1412	1398	1427	1423	1416	1402	1419	1419	1457	1465	1478
Intra-Regional Transfers (Out)	13	13	42	108	325	379	353	309	199	172	172	0.1	53	67
Supp & Entitlement Capacity (Out)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSPE To West Group Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Federal Diversity	-918	-918	-931	-920	-844	-651	-661	-647	-861	-804	-804	-922	-918	-936
Total Transfers Out	10619	10591	10645	11144	12482	13796	14025	13751	12629	11673	11819	11055	10577	10851
Total Firm Obligations	11027	10999	10968	11415	12702	14024	14254	14005	12899	12089	12235	11510	11009	11307
Hydro Resources														
Regulated Hydro	16119	15984	15222	14708	15841	16802	17381	17183	16497	15243	15913	16378	16686	16568
Independent Hydro	745	757	739	744	711	673	644	760	820	845	845	884	886	762
Sustained Peaking Adjustment	-100	-100	-1293	0	0	0	-4654	-4100	-2809	-1980	-4116	-2625	-1500	-700
Non-Fed CER (CSPE)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fed CER (Canada)	248	248	248	248	249	249	249	249	249	248	248	248	248	248
Restoration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro Resources	17012	16889	14915	15700	16801	17724	13620	14091	14756	14357	12890	14885	16320	16877
Other Resources														
Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewables	27	27	27	28	29	31	32	31	31	30	30	27	27	27
Cogeneration	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports	88	88	117	153	206	260	234	190	162	165	165	75	93	109
Intra-Regional Transfers (In)	0	0	23	23	23	0	0	0	0	0	0	0	0	0
Supp & Entitlement Capacity (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150
Non-Utility Generation	54	54	54	54	54	54	54	54	54	54	54	54	54	54
Resource Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Other Resources	1319	1319	1371	1408	1462	1495	1470	1425	1397	1399	1399	156	174	1340
Total Resources	18331	18208	16286	17108	18262	19219	15089	15516	16153	15755	14289	15041	16495	18217
Reserves & Maintenance														
Hydro Reserves	-843	-837	-798	-773	-828	-874	-901	-897	-866	-804	-838	-863	-879	-866
Small Thermal & Misc. Reserves	-4	-4	-4	-4.1	-4.1	-4.2	-4.3	-4.2	-4.2	-4.2	-4.2	-4	-4	-4
Contract Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large Thermal Reserves	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	-172	0	0	-172
Federal Hydro Maintenance	-3263	-2761	-2770	-2752	-2705	-1866	-1408	-1883	-1915	-2061	-1805	-1756	-1635	-2785
Spinning Reserves	-353	-362	-314	-334	-362	-405	-313	-313	-329	-317	-286	-302	-341	-361
Federal Transmission Losses	-459	-471	-410	-438	-475	-533	-412	-410	-431	-415	-375	-406	-457	-470
Total Reserves, Maintenance & Losses	-5094	-4608	-4467	-4473	-4546	-3854	-3210	-3680	-3718	-3775	-3480	-3332	-3316	-4658
Total Net Resources	13237	13600	11819	12635	13716	15365	11879	11836	12435	11980	10809	11710	13179	13559
Total Firm Surplus/Deficit	2210	2601	851	1219	1014	1341	-2375	-2169	-464	-109	-1426	200	2170	2252

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