

Exhibit No.\_\_\_\_(GND-2)  
Docket UE-14\_\_\_\_  
Witness: Gregory N. Duvall

**BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

v.

PACIFIC POWER & LIGHT COMPANY,  
a division of PacifiCorp

Respondent.

Docket UE-14\_\_\_\_

**PACIFIC POWER & LIGHT COMPANY**

**EXHIBIT OF GREGORY N. DUVALL**

**Net Power Cost Analysis**

**May 2014**

**WAGRC March16\_NPC Study 2014 05 01**

PacificCorp  
12 months ended March 2016

	04/15/03/16	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
<b>Special Sales For Resale</b>													
Long Term Firm Sales	41,610,850	4,739,658	6,461,919	8,057,377	10,144,081	8,046,865	501,823	1,579,555	8,345	8,739	7,439	343,153	1,743,721
East/Kia Sales (CA, Sale)	121,025	8,824	8,738	8,185	13,516	14,132	12,523	11,070	8,345	8,739	7,439	8,147	12,369
Leaning Juniper Revenue													
Total Long Term Firm Sales	41,731,876	4,748,482	6,470,657	8,066,561	10,157,597	8,060,997	514,446	1,594,625	8,345	8,739	7,439	351,300	1,756,090
Short Term Firm Sales													
COB	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
NOB	-	-	-	-	-	-	-	-	-	-	-	-	-
Electric Swaps Sales	364,294	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358
STF Trading Margin													
Total Short Term Firm Sales	364,294	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358	30,358
System Balancing Sales													
COB	37,594,313	1,785,614	1,155,129	1,226,697	4,276,678	4,358,330	4,219,977	2,465,615	3,053,779	3,654,746	4,614,791	3,535,016	3,247,943
Mid Columbia	11,756,164	7,686	22,893	97,029	1,059,693	1,600,914	2,404,633	2,016,604	1,227,259	853,236	737,935	899,015	826,667
NOB													
Trapped Energy	12,150	2,444	501	165		38	3,070	5,682					49
Total System Balancing Sales	48,362,648	1,795,945	1,178,523	1,323,891	5,336,370	5,959,181	6,627,680	4,488,000	4,281,038	4,507,984	5,352,725	4,434,632	4,076,678
Total Special Sales For Resale	91,458,818	6,572,784	7,679,537	9,420,810	15,524,325	14,050,136	7,172,484	6,102,583	4,319,740	4,547,081	5,390,522	4,816,290	5,862,126
<b>Purchased Power &amp; Net Interchange</b>													
Long Term Firm Purchases													
Combe Hills Wind p 160585	5,225,445	403,468	375,039	451,979	433,241	429,645	409,479	439,678	490,462	357,384	507,157	341,533	586,400
Douglas PUD Settlement p 38185	2,215,394	254,273	325,677	352,433	306,540	237,502	105,929	98,458	98,015	99,533	96,972	93,585	144,477
Georgie-Padric Camas	4,573,171	486,691	515,321	486,691	515,321	515,321	686,891	515,321	495,691	515,321	7,660,010	7,240,181	6,537,154
Long Term Firm Purchase p 95653	79,369,116	3,859,492	3,029,827	3,859,492	6,074,947	7,113,379	6,839,527	7,058,527	7,329,827	7,058,527	7,058,527	7,058,527	7,058,527
PG&E CA p 93884	333,118	38,927	36,927	36,927	36,927	36,927	36,927	36,927	36,927	36,927	36,927	36,927	36,927
Long Term Firm Purchases Total	88,240,246	4,816,573	4,843,545	4,996,889	7,903,975	8,724,315	7,695,173	8,718,811	8,431,814	8,618,905	8,293,066	7,702,224	7,294,957

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**WAGRC March16\_NPC Study 2014 05 01**

PacificCorp

12 months ended March 2016

	04/15-03/16	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Qualifying Facilities													
QF California	6,984,778	1,019,401	1,028,297	797,642	379,385	282,310	261,654	263,771	292,233	436,327	655,491	754,110	820,159
QF Oregon	27,706,036	2,798,328	2,888,377	2,584,588	2,218,163	2,086,992	2,142,692	1,949,187	1,736,818	2,150,219	2,350,270	2,257,332	2,543,071
QF Washington	579,500	31,352	47,095	68,317	84,596	89,107	76,402	43,365	27,078	27,022	28,403	28,399	28,364
Biomass One QF	14,394,882	718,405	723,393	718,402	1,424,771	1,429,423	1,404,789	1,440,558	1,181,511	1,268,761	1,367,290	1,323,865	1,393,695
DCFP p316701 QF	188,326	10,907	20,324	18,943	18,565	17,540	14,823	27,995	18,234	8,190	12,314	9,541	10,951
Evergreen BioPower p351030 QF	2,565,401	141,532	157,092	168,446	270,667	277,225	255,464	282,103	211,801	218,757	200,375	201,395	180,553
Oregon Wind Farm QF	11,866,536	1,170,368	1,187,991	1,389,764	1,420,408	1,070,425	881,619	901,747	1,036,952	356,535	686,544	787,034	975,150
Roseburg Dillard QF	1,031,095	45,782	25,361	32,675	147,270	118,038	93,140	39,987	86,590	108,019	133,501	134,831	66,831
Threemile Canyon Wind QF p500139	2,101,491	167,021	212,401	199,278	177,403	174,988	165,712	193,399	149,917	156,781	152,602	169,399	182,689
Qualifying Facilities Total	67,418,047	6,097,076	6,290,332	5,976,054	6,141,228	5,545,946	5,296,295	5,141,111	4,741,126	4,730,611	5,886,789	5,686,016	6,201,462
Mid-Columbia Contracts													
Douglas Wells p06828	3,653,051	301,420	301,420	301,420	301,420	301,420	306,564	306,564	306,564	306,564	306,564	306,564	306,564
Grant Surplus p256951	(5,958,943)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)	(499,300)
Grant Surplus p256951	2,044,202	170,507	170,507	170,507	170,507	170,507	170,507	170,507	170,507	170,507	169,880	169,880	169,880
Mid-Columbia Contracts Total	(261,689)	(27,373)	(27,373)	(27,373)	(27,373)	(27,373)	(22,229)	(22,229)	(22,229)	(22,229)	(11,969)	(11,969)	(11,969)
Total Long Term Firm Purchases	155,396,604	10,886,276	11,106,503	10,947,571	14,017,830	14,242,888	13,169,238	13,837,692	13,150,710	13,327,287	13,869,886	13,356,272	13,484,451
Storage & Exchange													
Cowitz Swift p65787	-	-	-	-	-	-	-	-	-	-	-	-	-
SCL State Line p105228	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Storage & Exchange	-	-	-	-	-	-	-	-	-	-	-	-	-
Short Term Firm Purchases													
COB	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid-Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
NCE	-	-	-	-	-	-	-	-	-	-	-	-	-
SFE Electric Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Short Term Firm Purchases	-	-	-	-	-	-	-	-	-	-	-	-	-
System Balancing Purchases													
COB	5,167,458	326,660	838,820	1,446,363	409,409	19,197	262,986	472,071	302,423	839,046	99,738	66,099	84,646
Mid-Columbia	79,051,570	12,842,675	12,729,390	12,013,800	10,155,388	9,566,846	831,392	1,570,618	1,587,889	3,174,510	4,134,126	3,759,379	6,685,577
NOB	66,036	-	11,789	23,654	22,570	-	-	-	5,728	-	-	418	1,877
Emergency Purchases	-	-	-	-	-	-	-	-	-	-	-	-	-
Total System Balancing Purchases	84,285,063	13,169,335	13,579,989	13,483,817	10,587,367	9,586,043	1,094,368	2,042,689	1,896,041	4,013,556	4,233,863	3,825,896	6,772,100
Total Purchased Power & Net Interchange	239,691,666	24,055,611	24,686,492	24,431,387	24,605,197	23,828,931	14,263,606	15,880,381	15,046,751	17,340,843	18,103,749	17,182,167	20,256,550

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Net Power Cost Analysis													
	04/15/03/16	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
<b>PacificCorp</b>													
12 months ended March 2016													
<b>Wheeling &amp; U. of F. Expense</b>													
Firm Wheeling	110,166,569	9,032,131	8,989,931	9,221,709	9,392,863	9,003,182	9,027,211	9,291,245	9,276,966	9,131,375	9,348,235	9,266,599	9,165,122
ST Firm & Non-Firm													
<b>Total Wheeling &amp; U. of F. Expense</b>	110,166,569	9,032,131	8,989,931	9,221,709	9,392,863	9,003,182	9,027,211	9,291,245	9,276,966	9,131,375	9,348,235	9,266,599	9,165,122
<b>Coal Fuel Burn Expense</b>													
Colstrip	8,082,952	684,391	698,563	425,130	705,080	707,524	684,575	707,523	684,243	707,723	707,147	651,159	707,114
Hemison	214,249,038	15,097,942	13,892,496	15,969,351	20,348,354	19,870,740	18,705,479	19,719,548	18,655,888	19,177,881	18,245,805	17,733,773	16,542,371
Jim Bridger													
<b>Total Coal Fuel Burn Expense</b>	222,331,290	15,772,033	14,591,059	16,394,482	21,055,313	20,578,364	19,390,055	20,426,871	19,640,142	19,885,004	18,952,952	18,394,932	17,249,485
<b>Gas Fuel Burn Expense</b>													
Chenails	37,994,475				5,591,013	6,400,814	5,182,853	4,086,789	3,644,342	5,399,733	4,444,504	2,944,427	
Hemison	31,746,696	40,989		73,810	2,843,732	3,813,033	3,179,996	3,352,353	3,532,253	3,680,398	3,822,534	3,539,862	2,625,093
Total Gas Fuel Burn	69,741,171	40,989		73,810	8,434,745	10,213,847	8,362,849	8,019,344	7,237,625	9,280,131	8,367,038	6,484,289	2,625,093
Gas Physical													
Gas Swaps	(352,565)												
Pipeline Reservation Fees	17,573,217												
<b>Total Gas Fuel Burn Expense</b>	86,962,023	1,445,121	1,485,312	1,445,121	1,485,312	1,485,312	1,445,121	1,485,312	(54,270)	1,485,312	(83,344)	(73,762)	(70,603)
<b>Other Generation</b>													
Integration Charge	1,099,540	89,649	92,489	97,583	98,283	91,664	82,006	86,552	89,292	84,535	94,453	86,219	106,816
<b>Total Other Generation</b>	1,099,540	89,649	92,489	97,583	98,283	91,664	82,006	86,552	89,292	84,535	94,453	86,219	106,816
<b>Net Power Cost</b>	568,792,271	43,862,759	42,165,745	42,243,282	49,947,388	51,151,164	45,398,364	49,086,722	48,361,887	52,590,732	50,877,874	47,919,706	45,176,649
<b>Net Power Cost/Net System Load</b>	28.41	28.26	27.33	27.52	28.12	30.18	28.41	31.08	28.73	27.71	26.79	28.33	26.81