



# Oregon

Theodore R. Kulongoski, Governor

August 14, 2009

## Public Utility Commission

550 Capitol Street NE, Suite 215

Mailing Address: PO Box 2148

Salem, OR 97308-2148

Consumer Services

1-800-522-2404

Local: 503-378-6600

Administrative Services

503-373-7394

Filing Center  
Public Utility Commission of Oregon  
550 Capitol Street NE, Ste 215  
Salem, OR 97301

RE: Docket No. 210 – Staff Errata Filing

Dear Filing Center:

Enclosed for filing is a single page that replaces Staff testimony in this proceeding, with changes as indicated below. Additionally, a single "strikeout" page displaying the change(s) is also provided. The replacement page, with a brief description of the changes, are:

Staff/1100 Compton/9 Lines 1 - 8: Substitute corrected "preliminary figures" from Staff/1107 Compton/1 (see below).

Staff/1100 Compton/9 Line 14: Substitute "102%" for "90%."

The cause of the changes was the failure to consistently substitute distribution single coincident peak (1DCP) figures and references for 3CP figures and references that were used in a previous version of the model. The appropriate substitutions are described below for the respective attached worksheets.

Staff/1106 Compton/3 SOURCE (I): Replace "Last" with "Jan-10"

Staff/1106 Compton/9 Sources: Replace "3CP" with "1 DCP" in every instance.

Staff/1106 Compton/10 Sources: Replace "3CP" with "1 DCP" in every instance.

Staff/1106 Compton/15 Line 5: Replace "3CP" with "1 DCP"

Staff/1106 Compton/16 New Source: "Line 2: Column F' of PC 4 (Staff/1106 Compton/3)"

Staff/1106 Compton/16 Line 2: These are the correct values identified in Line 2 Source.

Staff/1106 Compton/17 Lines 5, 7, 9, 10, 34: These are the changes that reflect the new values of Line 2 of Staff/1106 Compton/16.

Staff/1106 Compton/18 Lines 7, 17, 29, 36, 41, 45: These are the changes that reflect the new values of Line 2 of Staff/1106 Compton/16 as carried through Compton/17.



Staff/1107 Compton/1 Lines 7, 17, 29, 36, 41, 45: These are the changes that reflect the new values of Line 2 of Staff/1106 Compton/16 as carried through Staff/1106 Compton/17 and on to Staff/1107 Compton/1.

Sincerely,

A handwritten signature in cursive script that reads "Judy Johnson". The signature is written in black ink and is positioned above the printed name and contact information.

Judy Johnson  
Program Manager – Revenue Requirements  
(503) 378-6636  
Fax: (503) 373-7752

Enclosures

CASE: UE 210  
WITNESS: George R. Compton

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 1100  
Corrected Page 9**

**Opening Testimony  
Errata Filing**

**August 14, 2009**

1	Residential	8.30%
2	General Service Sched. 23 (Secondary)	5.09%
3	General Service Sched. 28 (Secondary)	19.23%
4	General Service Sched. 30 (Secondary)	19.71%
5	Large Power Service Sched. 48 (Secondary)	15.82%
6	Large Power Service Sched. 48 (Primary)	16.32%
7	Large Power Service Sched. 48 (Trans.)	17.14%
8	Irrigation Schedule 41	7.72%
9	Street Lighting Sched's. 51, 53, 54	TBD
10	<b>Overall Total</b>	<b>11.72%</b>

11  
12 I would urge caution regarding the very low indicated increase for the General  
13 Service Schedule 23. It is based in part upon a suspiciously high feeder load  
14 factor estimate (Company-supplied) of 102%.

15 **R. WHY DO YOU SAY "PRELIMINARY FIGURES"?**

16 B. I expect that I'll find modifications to be appropriate after I have reviewed the  
17 opening filings by CUB and ICNU and the reply filing by the Company.

18 **Q. AT A VERY HIGH LEVEL CAN YOU EXPLAIN THE BASIS OF THE**  
19 **MAJOR DISCREPANCIES BETWEEN YOUR COS RESULTS AND THE**  
20 **COMPANY'S?**

21 A. Yes. Reducing the energy cost estimates while increasing the capacity cost  
22 estimate reduced allocated generation function costs for the higher load-  
23 factor customers. Reclassifying a major share of the distribution costs as  
24 demand-related rather than customer-related reduced the distribution cost  
25 allocation to residential and small commercial customers while increasing that  
26 allocation to all the customers who do not take power directly from the  
27

CASE: UE 210  
WITNESS: George R. Compton

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 1100  
"Strikeout Page 9"**

**Opening Testimony  
Errata Filing**

**August 14, 2009**

1	Residential	<del>7.85%</del>	8.30%
2	General Service Sched. 23 (Secondary)	<del>6.18%</del>	5.09%
3	General Service Sched. 28 (Secondary)	<del>18.71%</del>	19.23%
4	General Service Sched. 30 (Secondary)	<del>19.88%</del>	19.71%
5	Large Power Service Sched. 48 (Secondary)	<del>15.92%</del>	15.82%
6	Large Power Service Sched. 48 (Primary)	<del>16.23%</del>	16.32%
7	Large Power Service Sched. 48 (Trans.)	<del>17.14%</del>	17.14%
8	Irrigation Schedule 41	<del>18.92%</del>	7.72%
9	Street Lighting Sched's. 51, 53, 54	TBD	TBD
10	<b>Overall Total</b>		<b>11.72%</b>

11  
12 I would urge caution regarding the very low indicated increase for the General  
13 Service Schedule 23. It is based in part upon a suspiciously high feeder load  
14 factor estimate (Company-supplied) of ~~90%~~102%.

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17 opening filings by CUB and ICNU and the reply filing by the Company.

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26 allocation to all the customers who do not take power directly from the  
27

CASE: UE 210  
WITNESS: George R. Compton

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 1106  
Corrected Pages of  
3,9,10,15,16,17 & 18**

**Opening Testimony  
Errata Filing**

**August 14, 2009**

**STAFF SUBSTITUTE WORKSHEET -- DISTRIBUTION LOAD FACTOR ADDED**

PC 4

PacifiCorp

**Oregon Feeder Model Study  
Feeder Model Inputs and Assumptions**

Oregon Line Class	(A) Annual MWh	(B) Number of Customers	(C) Average MWh per Customer (A) / (B)	(D) Hours in Study Period	(E) Average kW / customer per hour (C)/(D)x1000	(F) Distribution 1 DCP Load Factor (E)/(G)	(G) Average 1 DCP kW per Customer (F)/(B)	(H) Distribution 1 DCP Average Total kW	(I) Feeder Load Factor 12CP	(J) Average 12CP kW per Customer (E)/(F)
1 Residential	5,546,125	488,139	11.36	8,760	1.30	41.04%	3.16	1,542,653	57.08%	2.27
2 GS 0-15 kW (sec) (23)	660,613	65,352	10.11	8,760	1.15	101.95%	1.13	73,969	89.84%	1.28
3 GS >15 kW (sec) (23)	487,926	9,474	51.50	8,760	5.88	66.04%	8.90	84,347	73.88%	7.96
4 GS (pri) (23)	1,278	34	37.24	8,760	4.25	67.55%	6.29	216	75.48%	5.63
5 GS < 20 kW (sec) (28)	441,213	4,459	98.95	8,760	11.30	53.65%	21.05	93,869	74.08%	15.25
6 GS 51-100 kW (sec) (28)	686,792	3,500	196.25	8,760	22.40	60.62%	78.68	129,333	69.79%	32.10
7 GS > 100 kW (sec) (28)	942,085	2,020	466.46	8,760	53.25	67.68%	147.00	158,902	74.90%	71.09
8 GS (pri) (28)	18,798	50	372.85	8,760	42.56	65.36%	65.12	3,283	73.48%	57.92
9 GS 0-300 kW (sec) (30)	210,232	240	875.96	8,760	100.00	68.03%	147.00	35,279	76.00%	131.88
10 GS >300 kW (sec) (30)	1,099,384	597	1,842.29	8,760	210.31	72.77%	289.02	172,470	75.71%	277.76
11 GS (pri) (30)	96,013	55	1,759.02	8,760	200.80	72.63%	276.46	15,090	75.73%	265.14
12 Irrigation	130,845	6,131	21.34	8,760	2.44	2691.29%	0.09	555	67.15%	3.63
13 USBR / UGRB	104,533	2,070	50.50	8,760	5.76	2691.29%	0.21	443	67.15%	8.58
14 Large GS 1 - 4 MW (sec)	649,403	123	5,276.13	8,760	602.30	76.64%	785.83	96,723	74.77%	805.56
15 Large GS 1 - 4 MW (pri)	459,309	57	8,081.68	8,760	922.57	81.60%	1,130.53	64,252	79.59%	1,159.22
16 Large GS + 4 MW (sec)	59,339	2	29,669.60	8,760	3,386.94	306.37%	1,105.50	2,211	98.15%	3,450.70
17 Large GS + 4 MW (pri)	1,301,457	34	38,278.15	8,760	4,369.65	96.45%	4,530.29	154,030	87.10%	5,016.77
18 Total -	12,895,345	582,336								

**Line Statistics**  
 19 Pole miles  
 20 Trench miles  
 21 Total miles

**Per Select. State**  
 14,146  
 4,831  
 18,977

22 Total feeders  
 23 Total Poles  
 24 Branches per Feeder

(Total Poles/Pole Miles)  
 25 Poles per mile  
 (Total Customers/Total Miles)  
 26 Customers per mile  
 (Total miles/Feeders)  
 27 Distance per Feeder  
 (Feeder miles / Branches)  
 28 Distance per Branch

604  
 371,574  
 7

26.27 Poles  
 30.69 Customers  
 31.42 Miles  
 4.49 Miles

**Oregon Model**  
 12 kV feeder 12 miles long has approx. 3 miles of single phase.  
 which is approx. 25 percent of feeder distance.  
 7.88 = 25 percent of typical Oregon feeder

5 divide by outer branches  
 1.571 distance of single phase on outer branch  
 35.00% equals percentage of single phase outer branch Segments

**SOURCES:**  
 (H) Jan-10 column of Tab "Attach. OPUC 245 1st Supp. (Exhibit Staff/1106 Compton/2)  
 (F) PC 3 (Exhibit Staff/1106 Compton/1)  
 (G) Line 13 Same load factor as Line 12 is assumed.



**PC 9 STAFF SUBSTITUTE WORKSHEET -- RECOGNIZE COMMITMENT COSTS FOR BRANCHES 6 AND 7; JURISDICTIONAL LOAD FACTOR**

**PacifiCorp  
Oregon Feeder Model Study  
Poles Demand, per se, Cost Allocation**

Line	Poles							(I)	
	(A)	(B)	(C)	(D)	(E)	(F)	(G)		(H)
1	Branch	1	2	3	4	5	6	7	
2	% Demand	15.93%	15.93%	15.93%	NA	NA	52.20%	NA	100.00%
3	Branch 6 Shared Cost	\$ 8,597	\$ 8,597	\$ 8,597	NA	NA	\$ 28,162	NA	\$ 53,953
4	% Demand	1.06%	1.06%	1.06%	3.48%	3.48%	3.48%	86.38%	100.00%
5	Branch 7 Shared Cost	\$ 716	\$ 716	\$ 716	\$ 2,345	\$ 2,345	\$ 2,345	\$ 58,257	\$ 67,439
6	Branch's Own Demand Cost	\$ 17,486	\$ 17,486	\$ 17,486	\$ 17,486	\$ 17,486	NA	NA	Average
7	Total	\$ 26,798	\$ 26,798	\$ 26,798	\$ 19,830	\$ 19,830	\$ 30,507	\$ 58,257	\$ 208,820
8									\$ 51.04
9	Class Cost per Branch(4)	1	2	3	4	5	6	7	Total
10	Residential	\$ 20,420	\$ 20,420	\$ 20,420	\$ 14,274	\$ 14,274	\$ 21,959	\$ 35,398	\$ 147,162
11	GS 0-15 KW (sec) (23)	\$ 1,225	\$ 1,225	\$ 1,225	\$ 680	\$ 680	\$ 1,046	\$ 1,679	\$ 7,758
12	GS >15 KW (sec) (23)	\$ 1,396	\$ 1,396	\$ 1,396	\$ 775	\$ 775	\$ 1,193	\$ 1,915	\$ 8,847
13	GS (pri) (23)	\$ 4	\$ 4	\$ 4	\$ 2	\$ 2	\$ 3	\$ 5	\$ 23
14	GS < 50 KW (sec) (28)	\$ 486	\$ 486	\$ 486	\$ 551	\$ 551	\$ 848	\$ 2,327	\$ 5,736
15	GS 51-100 KW (sec) (28)	\$ 670	\$ 670	\$ 670	\$ 759	\$ 759	\$ 1,168	\$ 3,206	\$ 7,902
16	GS > 100 KW (sec) (28)	\$ 823	\$ 823	\$ 823	\$ 933	\$ 933	\$ 1,436	\$ 3,939	\$ 9,709
17	GS (pri) (28)	\$ 17	\$ 17	\$ 17	\$ 19	\$ 19	\$ 30	\$ 81	\$ 201
18	GS 0-300 KW (sec) (30)	\$ 271	\$ 271	\$ 271	\$ 187	\$ 187	\$ 288	\$ 875	\$ 2,349
19	GS >300 KW (sec) (30)	\$ 1,324	\$ 1,324	\$ 1,324	\$ 916	\$ 916	\$ 1,409	\$ 4,275	\$ 11,486
20	GS (pri) (30)	\$ 116	\$ 116	\$ 116	\$ 80	\$ 80	\$ 123	\$ 374	\$ 1,005
21	Irrigation	\$ 22	\$ 22	\$ 22	\$ 17	\$ 17	\$ 26	\$ 7	\$ 132
22	USBR / UKRB	\$ 27	\$ 27	\$ 27	\$ 12	\$ 12	\$ 18	\$ 6	\$ 128
23	Large GS 1 - 4 MW (sec)	\$ -	\$ -	\$ -	\$ 375	\$ 375	\$ 578	\$ 2,506	\$ 3,835
24	Large GS 1 - 4 MW (pri)	\$ -	\$ -	\$ -	\$ 249	\$ 249	\$ 384	\$ 1,665	\$ 2,547
25	Large GS + 4 MW (sec)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	Large GS + 4 MW (pri)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Check Total	\$ 26,798	\$ 26,798	\$ 26,798	\$ 19,830	\$ 19,830	\$ 30,507	\$ 58,257	\$ 208,820

Sources: Line 1 & 3: PC 6 - 1 DCP Bottom Table  
Line 2(H): PC 8 Branch 6(E)  
Line 2(A-G): Line 1(A-G) \* Line 2(H)  
Line 4(H): PC 8 Branch 7(E)  
Line 4(A-G): Line 3(A-G) \* Line 4(H)  
Line 5: PC 8 Branches 1(E) - 5(E)  
Line 10 - 26: Line 6 Totals times respective schedule branch load percentages from PC 6 - 1 DCP Column (I):

Line 6: Line 6(H) divided by Line 18(H) from PC 6 - 1 DCP  
Line 10 - 26: Lines (10-24)(H) divided by respective Lines (1-15)(H) from PC 6 - 1 DCP

PC 10

STAFF SUBSTITUTE WORKSHEET -- RECOGNIZE COMMITMENT COSTS FOR BRANCHES 6 AND 7; JURISDICTIONAL LOAD FACTOR

PacifiCorp

Oregon Feeder Model Study

Conductor Demand, per seg, Cost Allocation

Line	Conductors	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
1	Branch	1	2	3	4	5	6	7		
1	% Demand	15.93%	15.93%	15.93%	NA	NA	52.20%	NA	100.00%	
2	Branch 6 Shared Cost	\$ 19,712	\$ 19,712	\$ 19,712	NA	NA	\$ 64,574	NA	\$ 123,709	
3	% Demand	1.06%	1.06%	1.06%	3.48%	3.48%	3.48%	86.38%	100.00%	
4	Branch 7 Shared Cost	\$ 3,853	\$ 3,853	\$ 3,853	\$ 12,623	\$ 12,623	\$ 12,623	\$ 313,605	\$ 363,034	
5	Branch's Own Demand Cost	\$ 35,622	\$ 35,622	\$ 35,622	\$ 35,622	\$ 35,622	\$ -	\$ -	\$ -	average
6	Total	\$ 59,187	\$ 59,187	\$ 59,187	\$ 48,245	\$ 48,245	\$ 77,197	\$ 313,605	\$ 664,852	\$ 162.49
7										
8										
9	Class Cost per Branch(4)	1	2	3	4	5	6	7	Total	Total
9	Residential	\$ 45,099	\$ 45,099	\$ 45,099	\$ 34,727	\$ 34,727	\$ 55,567	\$ 190,541	\$ 450,859	\$ 176.53
10	GS 0-15 kW (sec) (23)	\$ 2,704	\$ 2,704	\$ 2,704	\$ 1,654	\$ 1,654	\$ 2,646	\$ 9,039	\$ 23,107	\$ 188.68
11	GS >15 kW (sec) (23)	\$ 3,084	\$ 3,084	\$ 3,084	\$ 1,886	\$ 1,886	\$ 3,018	\$ 10,308	\$ 26,349	\$ 188.68
12	GS (pri) (23)	\$ 8	\$ 8	\$ 8	\$ 5	\$ 5	\$ 8	\$ 26	\$ 67	\$ 188.68
13	GS < 50 kW (sec) (28)	\$ 1,073	\$ 1,073	\$ 1,073	\$ 1,341	\$ 1,341	\$ 2,146	\$ 12,527	\$ 20,575	\$ 132.39
14	GS 51-100 kW (sec) (28)	\$ 1,479	\$ 1,479	\$ 1,479	\$ 1,848	\$ 1,848	\$ 2,956	\$ 17,259	\$ 28,348	\$ 132.39
15	GS > 100 kW (sec) (28)	\$ 1,817	\$ 1,817	\$ 1,817	\$ 2,270	\$ 2,270	\$ 3,632	\$ 21,205	\$ 34,829	\$ 132.39
16	GS (pri) (28)	\$ 38	\$ 38	\$ 38	\$ 47	\$ 47	\$ 75	\$ 438	\$ 720	\$ 132.39
17	GS 0-300 kW (sec) (30)	\$ 598	\$ 598	\$ 598	\$ 456	\$ 456	\$ 729	\$ 4,708	\$ 8,142	\$ 139.40
18	GS >300 kW (sec) (30)	\$ 2,923	\$ 2,923	\$ 2,923	\$ 2,228	\$ 2,228	\$ 3,564	\$ 23,016	\$ 39,805	\$ 139.40
19	GS (pri) (30)	\$ 256	\$ 256	\$ 256	\$ 195	\$ 195	\$ 312	\$ 2,014	\$ 3,483	\$ 139.40
20	Irrigation	\$ 48	\$ 48	\$ 48	\$ 41	\$ 41	\$ 66	\$ 40	\$ 331	\$ 359.99
21	USBR / UKRB	\$ 60	\$ 60	\$ 60	\$ 28	\$ 28	\$ 45	\$ 31	\$ 313	\$ 425.87
22	Large GS 1 - 4 MW (sec)	\$ -	\$ -	\$ -	\$ 913	\$ 913	\$ 1,461	\$ 13,491	\$ 16,779	\$ 104.78
23	Large GS 1 - 4 MW (pri)	\$ -	\$ -	\$ -	\$ 607	\$ 607	\$ 971	\$ 8,962	\$ 11,146	\$ 104.78
24	Large GS + 4 MW (sec)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	Large GS + 4 MW (pri)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	Check Total	\$ 59,187	\$ 59,187	\$ 59,187	\$ 48,245	\$ 48,245	\$ 77,197	\$ 313,605	\$ 664,852	\$ -
27										

Sources: Line 1 & 3: PC 6 - 1 DCP Bottom Table

Line 2(H): PC 8 Branch 6(F)

Line 2(A-G): Line 1(A-G) \* Line 2(H)

Line 4(H): PC 8 Branch 7(F)

Line 4(A-G): Line 3(A-G) \* Line 4(H)

Line 5: PC 8 Branches 1(F) - 5(F)

Line 10 - 26: Line 6 Totals times respective schedule branch load percentages from PC 6 - 1 DCP

Column (I):

Line 6: Line 6(H) divided by Line 18(H) from PC 6 - 1 DCP

Line 10 - 26: Lines (10-24)(H) divided by respective Lines (1-15)(H) from PC 6 - 1 DCP

STAFF SUBSTITUTE WORKSHEET -- ALTERNATIVE LOAD FACTOR; COMMITMENT COSTS IN BRANCHES 6 AND 7

Pradicom  
Oregon Municipal Cost Study  
Marginal Distribution & Billing Costs By Load Size  
December 2010 Dollars

Table 7

Line	(A) Residential (sec)	(B) 0-15 kW (sec)	(C) 15+ kW (sec)	(D) Primary (sec)	(E) 0-50 kW (sec)	(F) 51-100 kW (sec)	(G) Primary (sec)	(H) 301+ kW (sec)	(I) 0-300 kW (sec)	(J) 301+ kW (sec)	(K) Primary (sec)	(L) 1-4 MW (sec)	(M) 1-4 MW (sec)	(N) 1-4 MW (sec)	(O) 1-4 MW (sec)	(P) Trans (sec)	(Q) Intg (sec)	(R) Sch 33 (sec)
1	\$6.13	\$8.74	\$8.74	\$8.74	\$3.93	\$3.93	\$3.93	\$4.28	\$4.28	\$4.28	\$4.28	\$2.55	\$2.55	\$2.55	\$2.55	NA	\$15.28	\$18.60
2	\$19.25	\$20.57	\$20.57	\$20.57	\$14.44	\$14.44	\$14.44	\$14.44	\$15.20	\$15.20	\$15.20	\$11.43	\$11.43	\$11.43	\$11.43	NA	\$39.25	\$46.44
3	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	17.18	NA	17.18	17.18
4	15.34	16.04	16.04	16.04	12.82	12.82	12.82	12.82	13.22	13.22	13.22	11.23	11.23	11.23	11.23	NA	25.85	29.64
5	\$7.90	\$80.53	\$80.53	\$80.53	\$48.37	\$48.37	\$48.37	\$48.37	\$48.88	\$48.88	\$48.88	\$42.39	\$42.39	\$42.39	\$42.39	NA	\$97.35	\$111.85
6	1.11	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	NA	0.52	1.44
7	0.40	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	NA	0.52	1.56
8	\$1.51	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	\$1.95	NA	\$1.95	\$1.95
9																		
10	\$93.40	\$97.02	\$97.02	\$97.02	\$19.40	\$19.40	\$19.40	\$19.40	\$21.35	\$21.35	\$21.35	\$10.67	\$10.67	\$10.67	\$10.67	NA	\$93.34	\$112.02
11	\$13.38	\$14.83	\$14.83	\$14.83	\$7.77	\$7.77	\$7.77	\$7.77	\$8.55	\$8.55	\$8.55	\$4.27	\$4.27	\$4.27	\$4.27	NA	\$37.38	\$46.87
12	16.85	16.85	16.85	16.85	9.79	9.79	9.79	9.79	10.78	10.78	10.78	5.39	5.39	5.39	5.39	NA	47.12	56.59
13		\$70.54	\$70.54	\$70.54	\$36.86	\$36.86	\$36.86	\$36.86	\$40.68	\$40.68	\$40.68	\$20.33	\$20.33	\$20.33	\$20.33	NA	\$177.84	\$213.45
14	\$63.64	\$70.54	\$70.54	\$70.54	\$36.86	\$36.86	\$36.86	\$36.86	\$40.68	\$40.68	\$40.68	\$20.33	\$20.33	\$20.33	\$20.33	NA	\$177.84	\$213.45
15																		
16	\$4.54	\$62.63	\$62.63	\$62.63	\$46.03	\$46.03	\$46.03	\$46.03	\$46.03	\$46.03	\$46.03	\$284.63	\$284.63	\$284.63	\$284.63	NA	\$67.19	\$766.53
17	\$2.60	\$8.63	\$8.63	\$8.63	\$23.98	\$23.98	\$23.98	\$23.98	\$24.22	\$24.22	\$24.22	\$1,074.16	\$1,074.16	\$1,074.16	\$1,074.16	NA	\$236.92	\$277.06
18	\$160.78	\$221.25	\$221.25	\$221.25	\$684.03	\$684.03	\$684.03	\$684.03	\$1,072.53	\$1,072.53	\$1,072.53	\$0.00	\$0.00	\$0.00	\$0.00	NA	\$894.11	\$1,045.59
19																		
20																		
21	\$2.05	\$7.02	\$7.02	\$7.02	\$160.38	\$160.38	\$160.38	\$160.38	\$160.38	\$160.38	\$160.38	\$689.16	\$689.16	\$689.16	\$689.16	NA	NA	NA
22	\$18.77	\$24.16	\$24.16	\$24.16	\$7.82	\$7.82	\$7.82	\$7.82	\$8.55	\$8.55	\$8.55	\$4.27	\$4.27	\$4.27	\$4.27	NA	NA	NA
23	\$10.50	\$12.89	\$12.89	\$12.89	\$26.70	\$26.70	\$26.70	\$26.70	\$28.54	\$28.54	\$28.54	\$14.27	\$14.27	\$14.27	\$14.27	NA	NA	NA
24	\$4.64	\$5.49	\$5.49	\$5.49	\$11.38	\$11.38	\$11.38	\$11.38	\$12.54	\$12.54	\$12.54	\$6.27	\$6.27	\$6.27	\$6.27	NA	NA	NA
25	\$14.00	\$17.36	\$17.36	\$17.36	\$30.48	\$30.48	\$30.48	\$30.48	\$32.60	\$32.60	\$32.60	\$14.63	\$14.63	\$14.63	\$14.63	NA	NA	NA
26	\$32.27	\$30.49	\$30.49	\$30.49	\$2.73	\$2.73	\$2.73	\$2.73	\$3.60	\$3.60	\$3.60	\$110.75	\$110.75	\$110.75	\$110.75	NA	NA	NA
27	\$10.15	\$2.73	\$2.73	\$2.73	\$2.73	\$2.73	\$2.73	\$2.73	\$3.60	\$3.60	\$3.60	\$110.75	\$110.75	\$110.75	\$110.75	NA	NA	NA
28	\$12.82	\$12.11	\$12.11	\$12.11	\$15.01	\$15.01	\$15.01	\$15.01	\$16.30	\$16.30	\$16.30	\$182.97	\$182.97	\$182.97	\$182.97	NA	NA	NA
29	\$195.50	\$172.26	\$172.26	\$172.26	\$373.16	\$373.16	\$373.16	\$373.16	\$1,061.56	\$1,061.56	\$1,061.56	\$2,847.01	\$2,847.01	\$2,847.01	\$2,847.01	NA	\$124.29	\$128.32
30																		
31																		
32																		
33	\$12.97	\$14.35	\$14.35	\$14.35	\$26.58	\$26.58	\$26.58	\$26.58	\$28.44	\$28.44	\$28.44	\$237.25	\$237.25	\$237.25	\$237.25	NA	\$10.35	\$10.69
34																		
35	\$316.38	\$393.51	\$393.51	\$393.51	\$815.64	\$815.64	\$815.64	\$815.64	\$2,131.72	\$2,131.72	\$2,131.72	\$3,921.17	\$3,921.17	\$3,921.17	\$3,921.17	NA	\$1,018.40	\$1,173.91
36																		
37	\$28.37	\$32.79	\$32.79	\$32.79	\$67.97	\$67.97	\$67.97	\$67.97	\$177.64	\$177.64	\$177.64	\$326.76	\$326.76	\$326.76	\$326.76	NA	\$84.87	\$97.83

Sources: Lines  
Line 1  
Line 2  
Line 10  
Line 11  
Line 1 (C)  
Line 1 (D)  
Line 1 (G)  
Line 1 (H)

Note: Substitutions (Line 3) are now to be allocated on a Jurisdictional (3 CP) basis rather than the Company's feeder (12 CP) basis.

\* Schedule 33 Cost of Service results are provided for informational purposes only.

Staff/1106  
Compton/15 Corrected

**STAFF SUBSTITUTE WORKSHEET - ALTERNATIVE LOAD FACTOR; COMMITMENT COSTS IN BRANCHES 6 AND 7**

Oregon Marginal Cost Study  
PacifiCorp  
20 Year Costing Inputs and Customer Data  
Marginal Unit Costs  
December 2010 Dollars

Table 3

Line	Description Billing Units	(A) Residential (sec)	(B) 0-15 kW (sec)	(C) 15+ kW (sec)	(D) Primary (pri)	(E) 0-50 kW (sec)	(F) 51-100 kW (sec)	(G) 101 kW > 101 kW (sec)	(H) Primary (pri)	(I) 0-300 kW (sec)	(J) 301+ kW (sec)	(K) Primary (pri)	(L) 1-4 MW (sec)	(M) 1-4 MW (pri)	(N) 1-4 MW > 4 MW (sec)	(O) 1-4 MW > 4 MW (pri)	(P) Trans (tm)	(Q) Irrigation Sch 41 (sec)	(R) Irrigation Sch 35 (sec)	
1	Load Factors	78.75%	89.41%	74.04%	75.50%	77.67%	68.93%	75.29%	73.67%	76.42%	77.06%	77.01%	76.07%	82.02%	92.66%	87.26%	99.33%	67.15%	67.15%	
2		41.04%	101.95%	66.04%	67.58%	53.56%	60.62%	67.69%	65.36%	68.03%	72.77%	72.63%	76.54%	81.60%	306.37%	98.45%	74.46	2691.29%	2691.25%	
3		67.08%	89.84%	73.88%	75.48%	74.06%	69.79%	74.90%	73.48%	76.00%	76.71%	76.73%	74.77%	79.59%	98.16%	87.10%	N/A	67.15%	67.15%	
4		30.28%	27.16%	49.98%	N/A	51.09%	57.17%	59.48%	N/A	64.68%	68.79%	75.73%	50.73%	N/A	67.13%	N/A	N/A	32.07%	32.07%	
5	Peak Mw @ Generator	862	82	73	0	69	122	153	3	34	175	15	98	61	7	163	48	25	22	
6		1,654	71	81	0	101	139	170	3	38	185	16	16	61	2	147	N/A	0.5	0.5	
7		1,189	81	73	0	73	120	154	3	34	178	15	99	63	7	163	N/A	25	25	
8		2,244	268	107	N/A	106	147	194	N/A	40	196	N/A	146	N/A	10	N/A	N/A	63	46	
9	Energy	5,435,846	592,652	430,256	1,152	431,980	672,435	922,391	18,249	206,234	1,078,480	93,891	594,746	414,743	54,345	1,175,179	404,889	136,792	118,046	
10	Energy - Annual Mwh	1,0940	1,0940	1,0940	1,0955	1,0940	1,0940	1,0940	1,0595	1,0940	1,0940	1,0595	1,0940	1,0940	1,0940	1,0595	1,0361	1,0940	1,0940	
11	Energy Loss Factor	5,946,598	637,267	470,653	1,220	472,580	735,617	1,009,059	19,395	225,612	1,179,814	99,519	650,629	499,416	59,451	1,245,090	419,485	149,645	129,138	
12	Energy - Annual Mwh	478,485	64,649	9,372	34	4,491	3,525	2,094	50	230	572	52	121	56	2	34	2	6,108	2,082	
13	Annual Customers																	2,534	756	
14	Average Customers																			
15	Unit Costs																			
16	\$ / System Peak Kw	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	\$74.46	
17	\$ / System Peak Kw	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	\$75.47	
18	\$ / Feeder-Kw-IDCP	\$67.90	\$69.53	\$60.53	\$60.53	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	\$48.37	
19	\$ / Feeder-Kw-IDCP	\$63.64	\$70.54	\$70.54	\$70.54	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	\$36.96	
20	\$ / Xlmr Kw	\$1.51	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	\$1.56	
21	Energy - @ Generator	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	\$0.05570	
22	Generation	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	\$0.00382	
23	Transmission	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
24	Poles	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
25	Conductor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
26	Transformers	\$74.20	\$231.25	\$495.66	\$0.00	\$688.01	\$804.03	\$883.01	\$0.00	\$1,070.36	\$1,072.63	\$0.00	\$1,074.16	\$0.00	\$1,074.16	\$0.00	\$0.00	\$884.11	\$1,046.59	
27	Service Drop	\$70.83	\$91.18	\$218.20	\$0.00	\$26.92	\$27.05	\$27.35	\$0.00	\$22.12	\$22.12	\$0.00	\$22.12	\$0.00	\$22.12	\$0.00	\$0.00	\$0.00	\$0.00	
28	Meters	\$15.54	\$18.38	\$38.08	\$1,199.32	\$36.81	\$46.53	\$207.91	\$1,199.32	\$209.71	\$209.92	\$1,199.32	\$114.93	\$114.93	\$114.93	\$114.93	\$114.93	\$114.93	\$114.93	\$114.93
29	Meter Reading	\$14.00	\$17.36	\$17.36	\$17.36	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80	\$16.80
30	Billing & Collections	\$32.27	\$30.48	\$30.48	\$30.48	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60	\$32.60
31	Uncollectables	\$10.15	\$12.11	\$12.11	\$12.11	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17	\$25.17
32	Customer Service / Other	\$12.82	\$12.11	\$12.11	\$12.11	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01	\$15.01
33	Total Commitment & Billing	\$229.81	\$393.51	\$816.64	\$1,262.02	\$1,042.16	\$1,177.16	\$1,702.85	\$1,268.90	\$2,131.72	\$2,134.19	\$1,528.84	\$3,921.17	\$2,846.18	\$3,921.17	\$2,846.18	\$44.970	\$1,018.40	\$1,173.91	

Sources:  
Line 2: Column F of PC 4 (Staff/1106 Compton/3)  
Line 5: Column F of Table 7  
Line 22: Line 5 of Table 7  
Line 23: Line 14 of Table 7  
Line 30 - 31: Zeros since none of the Poles' and Conductors' costs are classified as "Customer."

\* Schedule 33 Cost of Service results are provided for informational purposes only.

STAFF SUBSTITUTE WORKSHEET -- ALTERNATIVE LOAD FACTOR; COMMITMENT COSTS IN BRANCHES 6 AND 7

PacificCorp  
Oregon Marginal Cost Study  
20 Year Marginal Cost by Load Class  
December 2010 Dollars  
(Dollars in 000's)

Table 4

Line	Description	(A) Total	(B) Residual		(C) General Service - Schedule 23		(D) General Service - Schedule 28		(E) General Power - Schedule 29		(F) General Power - Schedule 30		(G) General Power - Schedule 48T		(H) Lamps, Power Service - Schedule 48T		(I) Trans		(J) Sth. 33*		(K) Sth. 51, 53, 54	
			(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)	(sec)
1	Generation	\$148,185	\$54,189	\$5,427	\$14	\$5,172	\$9,071	\$11,393	\$223	\$2,509	\$19,014	\$1,088	\$7,270	\$4,554	\$546	\$12,128	\$3,550	\$1,894	\$1,635	\$1,552		
2	Transmission	\$150,207	\$65,080	\$6,210	\$14	\$5,242	\$9,184	\$11,547	\$226	\$2,544	\$13,191	\$1,113	\$7,359	\$4,516	\$553	\$12,263	\$3,638	\$1,920	\$1,657	\$1,065		
3	Distribution	\$55,771	\$4,319	\$4,925	\$12	\$4,883	\$6,701	\$8,233	\$163	\$1,888	\$9,232	\$780	\$4,108	\$2,686	\$82	\$3,444	\$0	\$4,524	\$4,666	\$91		
4	Poles, Conductors, Sub.	\$147,160	\$75,955	\$5,712	\$5,130	\$2,682	\$4,447	\$5,694	\$111	\$1,378	\$7,237	\$910	\$2,019	\$1,281	\$26	\$0	\$0	\$4,524	\$4,524	\$4,747		
5	Poles and Conductor @ 125%	\$259,694	\$174,469	\$10,055	\$25	\$7,555	\$11,448	\$13,917	\$274	\$3,267	\$16,469	\$1,390	\$8,127	\$4,887	\$20	\$0	\$0	\$4,586	\$4,586	\$4,747		
6	Subtotal: Pole, Cond, Sub	\$5,872	\$2,091	\$2,091	\$0	\$2,091	\$2,091	\$2,091	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Transformers	\$259,556	\$174,469	\$10,055	\$25	\$7,555	\$11,448	\$13,917	\$274	\$3,267	\$16,469	\$1,390	\$8,127	\$4,887	\$20	\$0	\$0	\$4,586	\$4,586	\$4,747		
8	Distribution subtotal	\$304,092	\$174,469	\$22,693	\$53	\$18,176	\$29,701	\$37,236	\$723	\$8,398	\$43,058	\$3,601	\$21,053	\$13,057	\$1,171	\$27,865	\$7,228	\$8,505	\$8,129	\$4,837		
9	Total Demand Related (Lines 1-2+9)																					
10	Energy Related Marginal Cost	\$769,041	\$331,225	\$26,217	\$88	\$26,323	\$40,974	\$58,205	\$1,077	\$12,567	\$85,716	\$5,543	\$36,240	\$24,475	\$3,311	\$66,352	\$23,965	\$9,385	\$7,193	\$1,562		
11	Generation Energy Related	\$529,847	\$224,705	\$2,433	\$55	\$2,682	\$4,447	\$5,694	\$111	\$1,378	\$7,237	\$910	\$2,019	\$1,281	\$26	\$0	\$0	\$4,524	\$4,524	\$4,747		
12	Transmission Energy Related	\$820,688	\$359,530	\$37,929	\$73	\$29,127	\$43,763	\$50,057	\$1,151	\$13,428	\$70,220	\$5,923	\$38,724	\$26,153	\$3,538	\$74,105	\$24,957	\$9,907	\$7,686	\$1,659		
13	Total Energy																					
14	Customer Related Marginal Cost	\$6,054	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Conductor	\$68,752	\$14,304	\$4,654	\$0	\$3,094	\$2,834	\$1,798	\$0	\$246	\$614	\$0	\$131	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	Transformers	\$45,280	\$33,690	\$5,695	\$0	\$1,019	\$835	\$1,063	\$0	\$120	\$269	\$0	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Service Drops	\$10,523	\$7,438	\$1,188	\$41	\$1,655	\$164	\$423	\$60	\$48	\$120	\$62	\$4	\$6	\$0	\$41	\$86	\$229	\$93	\$2	\$2	\$2
18	Meter Reading	\$8,321	\$6,998	\$1,122	\$163	\$75	\$59	\$34	\$1	\$17	\$43	\$4	\$4	\$13	\$0	\$4	\$0	\$76	\$20	\$2	\$2	\$2
19	Billing & Collections	\$5,740	\$4,655	\$1,177	\$28	\$113	\$99	\$66	\$2	\$41	\$103	\$6	\$29	\$62	\$2	\$38	\$0	\$35	\$7	\$0	\$0	\$0
20	Uncollectibles	\$7,310	\$6,133	\$1,177	\$114	\$87	\$53	\$31	\$1	\$9	\$23	\$2	\$2	\$22	\$0	\$9	\$0	\$42	\$11	\$12	\$12	\$12
21	Customer Services / Other	\$170,238	\$109,961	\$25,441	\$43	\$4,680	\$4,149	\$4,464	\$64	\$490	\$1,221	\$79	\$475	\$159	\$9	\$97	\$89	\$5,936	\$2,312	\$6,236		
22	Total Commitment & Billing Rel.																					
23	Generation @ Full MC	\$816,296	\$395,414	\$31,620	\$82	\$31,495	\$50,045	\$67,588	\$1,300	\$15,076	\$78,730	\$6,641	\$43,510	\$29,029	\$3,857	\$81,480	\$28,955	\$10,229	\$9,828	\$1,552		
24	Transmission	\$202,654	\$87,765	\$7,274	\$19	\$7,046	\$12,003	\$16,400	\$300	\$3,405	\$17,698	\$1,493	\$9,653	\$6,284	\$760	\$17,047	\$5,240	\$2,491	\$2,150	\$106	\$106	
25	Distribution	\$389,967	\$244,238	\$30,755	\$25	\$11,974	\$15,105	\$17,155	\$274	\$3,711	\$17,765	\$1,390	\$8,658	\$3,887	\$76	\$5,444	\$0	\$10,152	\$6,993	\$9,189		
26	Customer - Billing	\$18,433	\$14,444	\$2,686	\$41	\$241	\$223	\$457	\$61	\$7	\$19	\$2	\$29	\$15	\$0	\$8	\$0	\$94	\$25	\$32		
27	Customer - Metering	\$10,942	\$8,314	\$520	\$41	\$241	\$223	\$457	\$61	\$7	\$19	\$2	\$29	\$15	\$0	\$8	\$0	\$94	\$25	\$32		
28	Customer - Other	\$7,310	\$6,133	\$1,177	\$114	\$87	\$53	\$31	\$1	\$9	\$23	\$2	\$2	\$22	\$0	\$9	\$0	\$42	\$11	\$12		
29	Revenue (less Uncollectibles)	\$1,553,143	\$763,126	\$86,086	\$169	\$50,870	\$77,544	\$100,705	\$1,937	\$22,274	\$114,995	\$9,595	\$60,118	\$39,307	\$4,715	\$102,029	\$32,262	\$29,312	\$18,120	\$7,995		
30	Customer - Uncollectibles	\$5,740	\$4,655	\$1,177	\$114	\$87	\$53	\$31	\$1	\$9	\$23	\$2	\$2	\$22	\$0	\$9	\$0	\$42	\$11	\$12		
31	Total Revenue	\$1,559,893	\$767,993	\$86,263	\$169	\$50,904	\$77,693	\$100,757	\$1,939	\$22,316	\$114,999	\$9,604	\$60,252	\$39,370	\$4,717	\$102,067	\$32,284	\$29,347	\$18,127	\$7,995		

Streamlighting (Column S): PacificCorp's original formulas preserved.

Sources:  
Line 5 Table 3 (Line 22 X Line 7)  
Line 6 Table 3 (Line 23 X Line 8)  
\* Schedule 33 Cost of Service results are provided for informational purposes only.

**STAFF SUBSTITUTE WORKSHEET - ALTERNATIVE LOAD FACTOR; COMMITMENT COSTS IN BRANCHES 6 AND 7**  
**PACIFICORP - STATE OF OREGON**  
 Combined GRC and TAM  
 December 31, 2010 Unbundled Revenue Requirement Allocation by Rate Schedule

Line	Description	(A) Residential		(B) General Service		(C) General Service		(D) General Service		(E) General Service		(F) General Service		(G) General Service		(H) Large Power Service		(I) Irrigation		(K) Street Lgt.	
		(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)	(sec)	(pri)
1	Total Operating Revenues	\$915,181	\$90,790	\$99	\$471,595	\$124,869	\$1,123	\$73,370	\$5,318	\$35,927	\$77,376	\$17,402	\$14,323	\$3,489	\$10,229	\$26,955	\$110,509	\$26,955	\$10,229	\$1,552	\$106
2	MYHE	12,680,407	1,012,789	1,152	5,435,846	2,026,816	18,249	\$1,284,715	93,931	649,091	1,589,921	404,889	136,792	\$26,217	\$2,491	\$0	\$0	\$0	\$0	\$0	\$0
3	Functionalized 20 Year Full Marginal Costs - Class S																				
4	Generation	\$916,236	\$73,243	\$82	\$395,414	\$149,137	\$1,300	\$93,805	\$6,641	\$47,367	\$110,509	\$26,955	\$10,229	\$1,552	\$106	\$0	\$0	\$0	\$0	\$0	\$0
5	Transmission	\$202,854	\$15,917	\$19	\$87,765	\$34,449	\$300	\$21,101	\$1,493	\$10,693	\$23,341	\$5,240	\$2,491	\$106	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Distribution	\$389,757	\$47,721	\$25	\$244,238	\$44,135	\$274	\$21,476	\$1,390	\$6,794	\$7,331	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	Customer - Billing	\$15,441	\$2,257	\$1	\$15,441	\$328	\$2	\$26	\$2	\$29	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	Customer - Metering	\$18,233	\$2,830	\$41	\$18,233	\$321	\$61	\$229	\$66	\$46	\$118	\$86	\$304	\$12	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Customer - Other	\$7,310	\$897	\$0	\$6,133	\$151	\$1	\$33	\$2	\$22	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Total	\$1,553,233	\$142,865	\$169	\$763,128	\$229,120	\$1,937	\$136,670	\$9,595	\$64,833	\$141,337	\$32,282	\$23,312	\$7,984	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11																					
12	Functional Revenue Requirement Allocation Factors																				
13	Functionalized 20 Year Full Marginal Costs - Class % of Total																				
14	Generation	100.00%	7.99%	0.01%	43.16%	16.28%	0.14%	10.24%	0.72%	5.17%	12.06%	2.94%	1.12%	0.17%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15	Transmission	100.00%	7.85%	0.01%	43.26%	16.98%	0.15%	10.40%	0.74%	5.24%	11.51%	2.58%	1.23%	0.16%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16	Distribution	100.00%	12.24%	0.01%	62.66%	11.32%	0.07%	5.51%	0.36%	1.73%	1.88%	0.00%	2.60%	0.17%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17	Ancillary Service	100.00%	7.99%	0.01%	43.16%	16.28%	0.14%	10.24%	0.72%	5.17%	12.06%	2.94%	1.12%	0.17%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	Customer - Billing	100.00%	12.38%	0.01%	84.69%	1.80%	0.01%	0.16%	0.01%	0.16%	0.12%	0.00%	0.51%	0.18%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
19	Customer - Metering	100.00%	15.02%	0.22%	75.02%	4.89%	0.32%	1.22%	0.35%	0.25%	0.63%	0.46%	1.62%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20	Customer - Other	100.00%	12.27%	0.01%	83.90%	2.06%	0.01%	0.13%	0.45%	0.31%	0.23%	0.01%	0.77%	0.17%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21	Embedded DSM - (mWh)	100.00%	7.99%	0.01%	42.87%	15.98%	0.14%	10.13%	0.74%	5.12%	12.54%	3.19%	1.08%	0.17%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	Regulatory & Franchise	100.00%	9.52%	0.01%	51.53%	13.59%	0.12%	8.02%	0.58%	3.93%	8.45%	1.90%	1.37%	0.38%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23	Taxes (Revenue)																				
24																					
25	Functionalized Chss Revenue Requirement - (Target)	\$612,171	\$264,191	\$55	\$89,644	\$869	\$112	\$62,675	\$4,437	\$31,648	\$73,835	\$18,010	\$6,835	\$1,037	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Generation	\$75,967	\$5,961	\$7	\$12,901	\$129	\$11	\$7,902	\$559	\$3,982	\$8,741	\$1,962	\$933	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	Transmission	\$246,801	\$30,218	\$16	\$27,947	\$174	\$15	\$13,599	\$880	\$4,264	\$4,642	\$0	\$6,428	\$3,976	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Distribution	\$10,758	\$4,643	\$1	\$1,751	\$15	\$1	\$1,101	\$78	\$556	\$1,298	\$316	\$120	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Ancillary Services	\$11,737	\$9,940	\$1	\$211	\$211	\$1	\$17	\$1	\$19	\$14	\$0	\$60	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	Customer - Billing	\$28,029	\$4,210	\$62	\$1,370	\$80	\$80	\$341	\$99	\$69	\$176	\$128	\$453	\$32	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	Customer - Metering	\$13,088	\$1,605	\$1	\$270	\$1	\$1	\$59	\$4	\$40	\$29	\$0	\$75	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0
32	Customer - Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33	Embedded DSM - (mWh)	\$23,859	\$2,367	\$3	\$3,242	\$29	\$29	\$1,213	\$139	\$937	\$2,017	\$454	\$373	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	Regulatory & Franchise T	\$1,022,411	\$95,610	\$144	\$147,336	\$1,292	\$1,292	\$87,606	\$6,197	\$41,515	\$90,752	\$20,871	\$15,277	\$5,208	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Total																				
36																					
37	Ratio of Operating Reven to Reven	89.51%	94.96%	68.07%	92.36%	84.41%	86.95%	85.79%	85.82%	86.54%	85.26%	83.38%	93.76%	66.99%							
38	(Line 1 / Line 50)																				
39	Increase or (Decrease)	\$107,229	\$4,820	\$45	\$22,967	\$169	\$169	\$14,226	\$879	\$5,588	\$13,376	\$3,469	\$954	\$1,719	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	(Line 36 - Line 1)																				
41	Percent Increase (Decrease)	11.72%	5.31%	45.62%	8.27%	18.47%	15.00%	19.40%	16.52%	15.55%	17.29%	19.94%	6.66%	49.28%							
42	(Line 41 / Line 1)																				
43																					
44																					
45																					
46																					

Source: Line 7: Respective values from Line 34 of Table 4. Secondary and Primary figures, respectively, are aggregated within Schedules.

CASE: UE 210  
WITNESS: George R. Compton

**PUBLIC UTILITY COMMISSION  
OF  
OREGON**

**STAFF EXHIBIT 1107  
Corrected Page 1**

**Opening Testimony  
Errata Filing**

**August 14, 2009**

**STAFF SUBSTITUTE WORKSHEET -- MODIFIED GENERATION ENERGY & CAPACITY PLUS REFORMULATED FEEDER MODEL**  
PACIFICORP - STATE OF OREGON

December 31, 2010 Unbundled Revenue Requirement Allocation by Rate Schedule  
Combined GRC and TAM

Line	Description	(A) Residential		(B) General Service		(C) General Service		(D) General Service		(E) General Service		(F) General Service		(G) General Service		(H) Large Power Service		(I) Irrigation		(J) Street Light	
		(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)	(sec)	(mnt)
1	Total Operating Revenues	\$915,181		\$90,790	\$99	\$471,595	\$1,123	\$124,369	\$1,123	\$1,003	\$1,003	\$73,370	\$5,318	\$55,927	\$77,376	\$17,402	\$14,323	\$3,489			
2	MVEH	12,680,407		1,012,789	1,152	5,435,846	18,249	2,026,816	18,249			\$1,284,715	93,931	649,091	1,569,921	404,889	136,792	\$26,217			
3	Functionalized 20 Year Full Marginal Costs - Class S																				
4	Generation	\$700,881		\$55,803	\$63	\$302,639		\$115,158	\$1,003	\$1,003	\$72,007	\$5,098	\$36,343	\$83,689	\$20,073	\$7,996					
5	Transmission	\$87,765		\$15,917	\$19	\$34,449		\$3,441	\$300	\$300	\$21,101	\$1,493	\$10,633	\$23,341	\$5,240	\$2,491					
6	Distribution	\$389,757		\$47,721	\$25	\$244,238		\$44,135	\$274	\$274	\$21,476	\$1,390	\$6,734	\$7,331	\$0	\$10,152					
7	Customer - Billing	\$18,233		\$2,257	\$1	\$15,441		\$28	\$26	\$26	\$29	\$2	\$29	\$21	\$0	\$94					
8	Customer - Metering	\$18,842		\$2,830	\$4	\$14,136		\$921	\$61	\$61	\$229	\$66	\$46	\$118	\$86	\$304					
9	Customer - Other	\$7,310		\$927	\$0	\$6,133		\$151	\$1	\$1	\$33	\$2	\$23	\$16	\$0	\$42					
10	Total	\$1,337,878		\$125,425	\$150	\$670,353		\$195,141	\$1,640	\$1,640	\$114,873	\$8,051	\$53,809	\$114,517	\$25,399	\$21,079					
11																					
12																					
13	Functional Revenue Requirement Allocation Factors																				
14	Functionalized 20 Year Full Marginal Costs - Class % of Total																				
15	Generation	100.00%		7.96%	0.01%	43.18%		16.43%	0.14%	0.14%	10.27%	0.73%	5.19%	11.94%	2.86%	1.14%					
16	Transmission	100.00%		7.85%	0.01%	16.98%		16.98%	0.15%	0.15%	10.40%	0.74%	5.24%	11.31%	2.58%	1.23%					
17	Distribution	100.00%		12.24%	0.01%	62.66%		11.32%	0.07%	0.07%	5.31%	0.36%	1.73%	1.88%	0.00%	2.60%					
18	Auxiliary Service	100.00%		7.96%	0.01%	43.18%		16.43%	0.14%	0.14%	10.27%	0.73%	5.19%	11.94%	2.86%	1.14%					
19	Customer - Billing	100.00%		84.69%	0.01%	84.69%		1.80%	0.01%	0.01%	0.14%	0.01%	0.16%	0.12%	0.00%	0.51%					
20	Customer - Metering	100.00%		75.02%	0.01%	75.02%		4.89%	0.02%	0.02%	1.22%	0.35%	0.25%	0.63%	0.46%	1.62%					
21	Customer - Other	100.00%		83.90%	0.01%	83.90%		2.06%	0.01%	0.01%	0.45%	0.03%	0.31%	0.23%	0.01%	0.57%					
22	Embedded DSM - (mWh)	100.00%		9.92%	0.01%	42.87%		13.98%	0.14%	0.14%	10.13%	0.74%	5.12%	12.54%	3.19%	1.08%					
23	Regulatory & Franchise Taxes (Revenue)	100.00%		9.92%	0.01%	51.53%		13.59%	0.12%	0.12%	8.02%	0.58%	3.93%	8.45%	1.90%	1.57%					
24																					
25																					
26	Functionalized Class Revenue Requirement - (Target)	\$612,171		\$48,740	\$55	\$264,334		\$100,582	\$876	\$876	\$62,894	\$4,452	\$11,743	\$73,096	\$17,532	\$6,984					
27	Generation	\$75,967		\$5,961	\$7	\$32,867		\$12,901	\$112	\$112	\$7,902	\$559	\$3,982	\$8,741	\$1,962	\$933					
28	Transmission	\$246,801		\$30,218	\$16	\$154,656		\$27,947	\$174	\$174	\$13,599	\$880	\$4,264	\$4,642	\$0	\$6,428					
29	Distribution	\$10,758		\$857	\$1	\$9,940		\$1,768	\$15	\$15	\$1,105	\$78	\$558	\$1,285	\$308	\$123					
30	Auxiliary Services	\$11,737		\$1,453	\$1	\$9,940		\$211	\$17	\$17	\$1	\$1	\$19	\$14	\$0	\$321					
31	Customer - Billing	\$28,029		\$4,210	\$62	\$21,029		\$1,370	\$90	\$90	\$341	\$99	\$69	\$176	\$128	\$453					
32	Customer - Metering	\$13,088		\$1,605	\$1	\$10,980		\$270	\$1	\$1	\$59	\$4	\$40	\$29	\$1	\$75					
33	Customer - Other	\$0		\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
34	Embedded DSM - (mWh)	\$23,859		\$2,357	\$3	\$12,295		\$1,242	\$92	\$92	\$1,213	\$139	\$937	\$2,017	\$454	\$91					
35	Regulatory & Franchise T	\$1,022,411		\$95,410	\$145	\$510,747		\$148,291	\$1,300	\$1,300	\$87,829	\$6,212	\$41,612	\$90,000	\$20,385	\$15,429					
36	Total																				
37	Ratio of Operating Reva to Reven	89.51%		95.16%	68.47%	92.33%		83.87%	86.44%	86.44%	83.54%	85.61%	86.34%	85.97%	85.37%	92.83%					
38	(Line 1 / Line 36)																				
39	Increase or (Decrease)	\$107,229		\$4,620	\$46	\$39,152		\$23,922	\$176	\$176	\$14,459	\$894	\$5,685	\$12,625	\$2,983	\$1,106					
40	(Line 36 - Line 1)																				
41	Percent Increase (Decrease)	11.72%		5.08%	46.05%	8.30%		19.23%	15.69%	15.69%	19.71%	16.81%	15.82%	16.32%	17.14%	7.75%					
42	(Line 41 / Line 1)																				
43																					
44																					
45																					
46																					

Source: Same worksheet as Staff/1105 Compton/3 except substitution of Line 7 from Staff/1106 Compton/18



**CERTIFICATE OF SERVICE**

**UE 210**

**Errata Pages of George R. Compton**

I certify that I have this day served the foregoing document upon all parties of record in this proceeding by delivering a copy in person or by mailing a copy properly addressed with first class postage prepaid, or by electronic mail pursuant to OAR 860-13-0070, to the following parties or attorneys of parties.

Dated at Salem, Oregon, this 14th day of August, 2009.

*Kay Barnes*

---

Kay Barnes  
Public Utility Commission  
Regulatory Operations  
550 Capitol St NE Ste 215  
Salem, Oregon 97301-2551  
Telephone: (503) 378-5763

UE 210  
Service List (Parties)

<p><b>BOEHM KURTZ &amp; LOWRY</b></p> <p>KURT J BOEHM ATTORNEY</p>	<p>36 E SEVENTH ST - STE 1510 CINCINNATI OH 45202 kboehm@bkllawfirm.com</p>
<p>MICHAEL L KURTZ</p>	<p>36 E 7TH ST STE 1510 CINCINNATI OH 45202-4454 mkurtz@bkllawfirm.com</p>
<p><b>CABLE HUSTON BENEDICT ET AL</b></p> <p>J LAURENCE CABLE (C)</p>	<p>1001 SW 5TH AVE STE 2000 PORTLAND OR 97204-1136 lcable@chbh.com</p>
<p><b>CABLE HUSTON BENEDICT HAAGENSEN &amp; LLOYD LLP</b></p> <p>RICHARD LORENZ (C)</p>	<p>1001 SW FIFTH AVE - STE 2000 PORTLAND OR 97204-1136 rlorenz@cablehuston.com</p>
<p><b>CITIZEN'S UTILITY BOARD OF OREGON</b></p> <p>G. CATRIONA MCCRACKEN (C) LEGAL COUNSEL/STAFF ATTY</p>	<p>610 SW BROADWAY - STE 308 PORTLAND OR 97205 catriona@oregoncub.org</p>
<p><b>CITIZENS' UTILITY BOARD OF OREGON</b></p> <p>GORDON FEIGHNER (C) ENERGY ANALYST</p>	<p>610 SW BROADWAY, SUITE 308 PORTLAND OR 97205 gordon@oregoncub.org</p>
<p>ROBERT JENKS (C)</p>	<p>610 SW BROADWAY STE 308 PORTLAND OR 97205 bob@oregoncub.org</p>
<p><b>DAVISON VAN CLEVE PC</b></p> <p>MELINDA J DAVISON (C)</p>	<p>333 SW TAYLOR - STE 400 PORTLAND OR 97204 mail@dvclaw.com</p>
<p><b>DEPARTMENT OF JUSTICE</b></p> <p>JASON W JONES (C) ASSISTANT ATTORNEY GENERAL</p>	<p>REGULATED UTILITY &amp; BUSINESS SECTION 1162 COURT ST NE SALEM OR 97301-4096 jason.w.jones@state.or.us</p>
<p><b>KLAMATH WATER USERS ASSOCIATION</b></p> <p>GREG ADDINGTON (C) EXECUTIVE DIRECTOR</p>	<p>2455 PATTERSON ST - STE 3 KLAMATH FALLS OR 97603 greg@cvcwireless.net</p>

<p><b>MCDOWELL &amp; RACKNER PC</b></p> <p>AMIE JAMIESON (C) ATTORNEY</p>	<p>520 SW SIXTH AVE - STE 830 PORTLAND OR 97204 amie@mcd-law.com</p>
<p>KATHERINE A MCDOWELL (C) ATTORNEY</p>	<p>520 SW SIXTH AVE - SUITE 830 PORTLAND OR 97204 katherine@mcd-law.com</p>
<p><b>PACIFIC POWER &amp; LIGHT</b></p> <p>JOELLE STEWARD (C) REGULATORY MANAGER</p>	<p>825 NE MULTNOMAH STE 2000 PORTLAND OR 97232 joelle.steward@pacifcorp.com</p>
<p>JORDAN A WHITE SENIOR COUNSEL</p>	<p>825 NE MULTNOMAH STE 1800 PORTLAND OR 97232 jordan.white@pacifcorp.com</p>
<p><b>PACIFICORP, DBA PACIFIC POWER</b></p> <p>PACIFIC POWER OREGON DOCKETS</p>	<p>825 NE MULTNOMAH STREET, STE 2000 PORTLAND OR 97232 oregondockets@pacifcorp.com</p>
<p><b>PORTLAND GENERAL ELECTRIC</b></p> <p>RANDALL DAHLGREN RATES &amp; REGULATORY AFFAIRS</p>	<p>121 SW SALMON ST - 1WTC1711 PORTLAND OR 97204 pge.opuc.filings@pgn.com</p>
<p>DOUGLAS C TINGEY ASST GENERAL COUNSEL</p>	<p>121 SW SALMON 1WTC13 PORTLAND OR 97204 doug.tingey@pgn.com</p>
<p><b>PUBLIC UTILITY COMMISSION OF OREGON</b></p> <p>DEBORAH GARCIA (C)</p>	<p>PO BOX 2148 SALEM OR 97308-2148 deborah.garcia@state.or.us</p>
<p><b>RFI CONSULTING INC</b></p> <p>RANDALL J FALKENBERG (C)</p>	<p>PMB 362 8343 ROSWELL RD SANDY SPRINGS GA 30350 consultrfi@aol.com</p>