

PSE Resp. to WUTC Staff DR-88 regarding workpapers

The worksheets in this file are the workpapers for Exhibits JHS 15 and 16.

[JHS-15 p.1](#)

[JHS-15 p.2](#)

[JHS-16 p.1](#)

[JHS-16 p.2](#)

[JHS-16 p.3](#)

[WRKPR\(JHS-14\)](#)

[WRKPR\(JMR-6 p.1\)](#)

Puget Sound Energy
Allocation of PCORC Revenue Requirement

Customer Class	a UE-011570 Energy Allocator	b = a * 84% Energy	c UE-011570 Demand Allocator	d = c * 16% Demand	e = b + d Weighted Allocation	f Revenue Requirement	g = e * f 2003 PCA Rev Req	h kWh 7/02 TO 6/03	i = (g / h) * 100 Sch 95 ¢ per kWh
Residential	10,137,089,324	0.422277	1,959,378	0.093326	0.515603	\$ 28,090,657	9,734,910,367	0.2886 ¢	
Sec Gen Svc - Small	2,594,418,404	0.108075	412,051	0.019626	0.127701	\$ 6,957,294	2,389,582,725	0.2912 ¢	
Sec Gen Svc - Medium	3,138,518,404	0.130740	418,590	0.019938	0.150678	\$ 8,209,099	2,840,353,571	0.2890 ¢	
Sec Gen Svc - Large	1,914,126,870	0.079736	284,748	0.013563	0.093299	\$ 5,083,025	1,878,305,034	0.2706 ¢	
Sec Irrigation Svc	11,813,980	0.000492	594	0.000028	0.000520	\$ 28,353	15,052,454	0.1884 ¢	
Pri Gen Svc	1,608,441,655	0.067002	213,875	0.010187	0.077189	\$ 4,205,359	1,664,882,183	0.2526 ¢	
Pri Irrigation Svc	5,435,481	0.000226	8	0.000000	0.000227	\$ 12,357	5,121,000	0.2413 ¢	
Pri Interruptible Svc	211,725,372	0.008820	-	-	0.008820	\$ 480,511	175,048,208	0.2745 ¢	
HV - Sch 46	30,008,768	0.001250	-	-	0.001250	\$ 68,105	50,620,000	0.1345 ¢	
HV - Sch 49	424,943,206	0.017702	56,904	0.002710	0.020412	\$ 1,112,073	427,726,004	0.2600 ¢	
Lights	79,347,471	0.003305	11,430	0.000544	0.003850	\$ 209,740	82,356,894	0.2547 ¢	
Firm Resale - Small	8,983,514	0.000374	1,612	0.000077	0.000451	\$ 24,571	7,758,862	0.3167 ¢	
Subtotal	20,164,852,449	0.840000	3,359,190	0.160000	1.000000	\$ 54,481,144	19,271,717,302	0.2827 ¢	
Firm Resale Special Contract Transportation	- -	- -	- -	- -	- -	- -	- 2,065,832,748	- -	- -
Total	20,164,852,449		3,359,190				21,337,550,050		

To:
Tab "JHS-16 p.
2"

Source:
Tab "JHS-14"

Source:
Tab "JHS-16 p. 1"

Puget Sound Energy
Description of Calculations on Exhibit

Page No.	Column No.	Description
Page 1		
	Column (a)	Total annual kWh consumption for each schedule for the GRC test period.
	Column (b)	Energy related weighted portion of the peak credit weighted allocation factors and is equal to the pro rata share of each schedule's total annual kWh consumption for the test period to the system total times the energy related Peak Credit Factor, in this case 84%.
	Column (c)	Schedule level total demand during the top 200 hours of system demand for the GRC test period.
	Column (d)	Demand related weighted portion of the peak credit weighted allocation factors and is equal to the pro rata share of each schedule's contribution to the top 200 system peak hours for the test period times the demand related Peak Credit Factor, in this case 16%.
	Column (e)	Resulting peak credit weighted allocation factor for each schedule and is equal to the sum of Columns (b) and (d). Using Column (e) the proposed power cost deficiency of \$ 54,481,144 from Exhibit No. ____ (JHS-14) is allocated to all applicable schedules.
	Column (f)	The proposed power cost deficiency of \$ 54,481,144 from Exhibit No. ____ (JHS-14).
	Column (g)	Result of multiplying Column (e) by the proposed power cost deficiency of \$ 54,481,144 from Column (f) to allocate the power cost deficiency to all applicable schedules.
	Column (h)	Test year pro forma volumes (YE 6/03) for each schedule.
	Column (i)	Cents/kWh amount to be charged to customers on each of the applicable schedules is shown in and is equal to Column (g) divided by the test year pro forma volumes (YE 6/03) for each schedule as shown in Column (h).

Puget Sound Energy Statement of Proforma and Proposed Revenues							
Source: Tab "JHS-15 p.1"							
	a	b	c	d = b + e	e = a * c	f = e / b	
CUSTOMER CLASS	SCHEDULE	kWh 7/02 TO 6/03	Pro forma Revenue @ Rates Effective 10-1-03	Schedule 95 ¢ per kWh @ 3-1-04	Proposed Revenue (Incl. Sch 95) @ 3-1-04	Increase / Decrease \$	Increase / Decrease %
Residential	7	9,734,910,367	\$ 744,638,665	0.2886 ¢	\$ 772,729,323	\$ 28,090,657	3.772%
Sec Gen Svc - Small	24	2,389,582,725	\$ 168,983,400	0.2912 ¢	\$ 175,940,694	\$ 6,957,294	4.117%
Sec Gen Svc - Medium	25	2,840,353,571	\$ 197,081,130	0.2890 ¢	\$ 205,290,229	\$ 8,209,099	4.165%
Sec Gen Svc - Large	26	1,878,305,034	\$ 117,333,181	0.2706 ¢	\$ 122,416,206	\$ 5,083,025	4.332%
Sec Irrigation Svc	29	15,052,454	\$ 925,052	0.1884 ¢	\$ 953,405	\$ 28,353	3.065%
Secondary Service Total		7,123,293,783	\$ 484,322,763	0.2847 ¢	\$ 504,600,534	\$ 20,277,771	4.187%
Pri Gen Svc	31	1,664,882,183	\$ 92,483,210	0.2526 ¢	\$ 96,688,569	\$ 4,205,359	4.547%
Pri Irrigation Svc	35	5,121,000	\$ 196,766	0.2413 ¢	\$ 209,123	\$ 12,357	6.280%
Pri Interruptible Svc	43	175,048,208	\$ 11,026,548	0.2745 ¢	\$ 11,507,059	\$ 480,511	4.358%
Primary Service Total		1,845,051,391	\$ 103,706,524	0.2546 ¢	\$ 108,404,751	\$ 4,698,227	4.530%
HV Interruptible Svc	46	50,620,000	\$ 2,156,709	0.1345 ¢	\$ 2,224,814	\$ 68,105	3.158%
HV Gen Svc	49	427,726,004	\$ 19,217,523	0.2600 ¢	\$ 20,329,597	\$ 1,112,073	5.787%
High Voltage Service Total		478,346,004	\$ 21,374,232	0.2467 ¢	\$ 22,554,410	\$ 1,180,178	5.521%
Lights		82,356,894	\$ 12,752,537	0.2547 ¢	\$ 12,962,277	\$ 209,740	1.645%
Small Firm Resale	005	7,758,862	\$ 461,993	0.3167 ¢	\$ 486,564	\$ 24,571	5.319%
Subtotal		19,271,717,302	\$ 1,367,256,714	0.2827 ¢	\$ 1,421,737,858	\$ 54,481,144	3.985%
Excluded Schedules							
Firm Resale Special Contract	005	-	\$ 1,277,712		\$ 1,277,712	\$ -	0.000%
Transportation	449 / 459	2,065,832,748	\$ 6,474,516		\$ 6,474,516	\$ -	0.000%
Total		21,337,550,050	\$ 1,375,008,941		\$ 1,429,490,085	\$ 54,481,144	3.962%

Source:
Tab "JMR-6 p.1"

Source:
Tab "JMR-6 p.1"

Puget Sound Energy
Description of Calculations on Exhibit

<u>Page No.</u>	<u>Column No.</u>	<u>Description</u>
Page 1	Column (a)	Test year pro forma volumes (YE 6/03) for each schedule.
	Column (b)	Test year pro forma revenue (billing determinants from YE 6/03 and rates effective 10-1-03) for each schedule.
	Column (c)	Cents/kWh amount to be charged to customers on each of the applicable schedules from JHS-15 , page 1, Column (i).
	Column (d)	Test year proposed revenue resulting from the summation of the proposed power cost deficiency in Column (e) and the proforma revenue in Column (b).
	Column (e)	The proposed power cost deficiency, by rate schedule, from JHS-15 , page 1, Column (i).
	Column (f)	Percent increase by rate schedule resulting from the division of the proposed power cost deficiency in Column (e) by the pro forma revenue in Column (b).
Page 2		Derivation of the applicable charge for street and area light schedules based on the cents/kWh rate of 0.2547 cents from JHS-15 , Page 1, Column (i) and billable wattage ratings by size and type of lamp. This calculation is continued to Page 3.
Page 3		Derivation of the applicable charge for street and area light schedules based on the cents/kWh rate of 0.2547 cents from JHS-15 , Page 1, Column (i) and billable wattage ratings by size and type of lamp. This calculation is a continuation of Page 2.

PUGET SOUND ENERGY
EXPLANATION OF DIFFERENCES IN THE REVENUE DEFICIENCY CALCULATED
IN JHS-6 (ORIGINAL FILING) AND JHS-13 (REBUTTAL TESTIMONY)
2003 POWER COST ONLY RATE CASE

Ref	Description	Exhibit #	Re-work
10	Revenue Deficiency as originally filed	JHS-6	\$ 64,443,049
11	Times the Conversion Factor	JHS-6	<u>0.9554723</u>
12			
13	Revenue Deficiency before application of conversion factor as originally filed	JHS-6	\$ 61,573,548
14	Changes to beginning balances ("Test Year Actual 2003 TY" column):		
15	Tenaska and Cabot regulatory assets true-up	JHS-11 Adj 10	(165,269)
16	Remove Snoqualmie CWIP from Production Rate Base	Adj 11	(1,352,822)
17	Power Costs:		
18	Remove test year power costs for major maintenance	Adj 01	(1,289,106)
19	Adjust Colstrip & March Point 2 generation	Adj 01	(3,187,344)
20	Prudence Disallowance on Replacement Pwr Costs	Adj 01	(392,440)
21	Peaking Options	Adj 01	(7,005,151)
22	Douglas Settlement	Adj 01	33,973
23	Fixed Priced Contracts	Adj 01	120,560
24	Impact on power costs for change in production factor	Adj 01	1,261,854
25	Sales for Resale	Adj 02	(399,964)
26	EPCOR sales tax from purchase price and accumulated depreciation	Adj 03	(692,866)
27	Reflect rate year transmission income as normalized 3 year average	Adj 04	(2,340,128)
28	Change to rate year KWH's for purposes of calculating the Montana Energy Tax	Adj 07	34,937
29	White River:		
30	Reinstate O&M and depreciation/amortization expenses	Adj 09	2,189,774
31	Reflect White River as a regulatory asset at rate year AMA	Adj 09	4,770,896
32	Change rate year Encogen acquisition adjustment to 6/30/2003 AMA	Adj 10	521,397
33	Carry through true-up of test year Tenaska and Cabot regulatory assets to the rate year	Adj 10	(126,808)
34	Effects on production adjustment for change to weather normalization	Adj 11	<u>206,954</u>
35	Revised Revenue Deficiency before application of conversion factor		53,761,994
36	Divide by the Conversion Factor	JHS-13	<u>0.9554723</u>
37	Revised Revenue Deficiency after application of conversion factor		56,267,455
38	Change in methodology of calculating Revenue Deficiency from original filing	JHS-13	(227,530)
39	Change test year load from 19,237,873 KWHs to 19,271,717 in determining per KWH amounts	JHS-13	<u>(1,558,780)</u>
40			
41	Revenue Deficiency as filed in JHS Rebuttal Testimony Exhibit JHS-13	JHS-13	<u>\$ 54,481,144</u>

To:
 Tab "JHS-15 p.1"

Docket Number UE-031725

Exhibit No. _____(JHS-14)

Page 1 of 1

Puget Sound Energy Statement of Current and Proposed Revenues

To:
Tab "JHS-15 p. 2"

To:
Tab "JHS-15 p. 2"

a

b

c

d = b + e

e = a * c

f = e / b

	CUSTOMER CLASS	SCHEDULE	kWh 7/02 TO 6/03	Revenue @ Rates Effective 10-1-03	Schedule 95 ¢ per kWh @ 3-1-04	Proposed Revenue (Incl. Sch 95) @ 3-1-04	Increase / Decrease \$	Increase / Decrease %
1	Residential	7	9,734,910,367	\$ 744,638,665	0.0399 ¢	\$ 748,519,969	\$ 3,881,303	0.521%
2	Sec Gen Svc - Small	24	2,389,582,725	\$ 168,983,400	0.0402 ¢	\$ 169,944,693	\$ 961,294	0.569%
3	Sec Gen Svc - Medium	25	2,840,353,571	\$ 197,081,130	0.0399 ¢	\$ 198,215,386	\$ 1,134,256	0.576%
4	Sec Gen Svc - Large	26	1,878,305,034	\$ 117,333,181	0.0374 ¢	\$ 118,035,506	\$ 702,325	0.599%
5	Sec Irrigation Svc	29	15,052,454	\$ 925,052	0.0260 ¢	\$ 928,969	\$ 3,918	0.423%
6	Secondary Service Total		7,123,293,783	\$ 484,322,763	0.0393 ¢	\$ 487,124,555	\$ 2,801,792	0.578%
7	Pri Gen Svc	31	1,664,882,183	\$ 92,483,210	0.0349 ¢	\$ 93,064,267	\$ 581,057	0.628%
8	Pri Irrigation Svc	35	5,121,000	\$ 196,766	0.0333 ¢	\$ 198,473	\$ 1,707	0.868%
9	Pri Interruptible Svc	43	175,048,208	\$ 11,026,548	0.0379 ¢	\$ 11,092,941	\$ 66,393	0.602%
10	Primary Service Total		1,845,051,391	\$ 103,706,524	0.0352 ¢	\$ 104,355,681	\$ 649,157	0.626%
11	HV Interruptible Svc	46	50,620,000	\$ 2,156,709	0.0186 ¢	\$ 2,166,119	\$ 9,410	0.436%
12	HV Gen Svc	49	427,726,004	\$ 19,217,523	0.0359 ¢	\$ 19,371,179	\$ 153,656	0.800%
13	High Voltage Service Total		478,346,004	\$ 21,374,232	0.0341 ¢	\$ 21,537,298	\$ 163,066	0.763%
14	Lights		82,356,894	\$ 12,752,537	0.0352 ¢	\$ 12,781,517	\$ 28,980	0.227%
15	Small Firm Resale	005	7,758,862	\$ 461,993	0.0438 ¢	\$ 465,388	\$ 3,395	0.735%
16	Subtotal		19,271,717,302	\$ 1,367,256,714	0.0391 ¢	\$ 1,374,784,407	\$ 7,527,693	0.551%
17	Excluded Schedules							
18	Firm Resale Special Contract	005	-	\$ 1,277,712		\$ 1,277,712	\$ -	0.000%
19	Transportation	449 / 459	2,065,832,748	\$ 6,474,516		\$ 6,474,516	\$ -	0.000%
20	Total		21,337,550,050	\$ 1,375,008,941		\$ 1,382,536,634	\$ 7,527,693	0.547%