

EXHIBIT NO. \_\_\_\_\_ (CJB-15)  
DOCKET NO. \_\_\_\_\_  
2003 POWER COST ONLY RATE CASE  
WITNESS: CHARLES J. BLACK

BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

Docket No. \_\_\_\_\_

v.

PUGET SOUND ENERGY, INC.,

Respondent.

DIRECT TESTIMONY OF  
CHARLES J. BLACK  
ON BEHALF OF PUGET SOUND ENERGY, INC.

## Exhibit CJB-15

**Achievable Electricity Conservation Potentials by Resource Bundle and Segment  
(Cumulative aMW 2004-2023)**

<i>Bundle/Segment</i>	<b>Cost Level A (≤\$0.03/kWh)</b>	<b>Cost Level B (\$0.03- 0.045/kWh)</b>	<b>Cost Level C (\$0.045- 0.06/kWh)</b>	<b>Cost Level D (\$0.06- 0.085/kWh)</b>	<b>Cost Level E (\$0.085- 0.11/kWh)</b>	<b>Total Achievable Potential</b>
Res. Ex. Const. – Appliances	29.2	-	18.2	19.9	0.1	67.4
Res. Ex. Const. – HVAC	8.4	1.8	2.0	3.2	0.8	16.2
Res. Ex. Const. – Lighting	32.7	-	-	-	0.3	32.9
Res. Ex. Const. – Water Heat	4.7	-	-	12.5	0.5	17.7
Res. New Const. – Appliances	-	-	1.2	3.5	2.0	6.7
Res. New Const. – HVAC	-	-	0.2	0.6	-	0.8
Res. New Const. – Lighting	23.0	0.2	-	0.3	-	23.5
Res. New Const. – Wtr. Heat	-	-	2.5	-	8.4	10.8
<b>Subtotal Residential</b>	<b>97.8</b>	<b>2.0</b>	<b>24.1</b>	<b>40.0</b>	<b>12.0</b>	<b>176.0</b>
Com. Ex. Const. – HVAC	7.0	2.9	6.0	5.6	2.9	24.4
Com. Ex. Const. – Lighting	28.2	32.3	24.1	6.9	3.2	94.8
Com. Ex. Const. – Plug Loads	1.7	0.2	0.4	0.3	0.3	2.9
Com. Ex. Const. – Water Heat	0.2	0.1	0.1	0.1	0.0	0.4
Com. New Const. – HVAC	2.3	1.1	1.9	2.0	1.4	8.7
Com. New Const. – Lighting	6.7	2.9	1.1	0.3	0.0	10.9
Com. New Const. – Plug Loads	0.5	0.1	0.1	0.1	0.0	0.8
Com. New Const. – Wtr. Heat	0.1	0.0	0.0	0.0	0.0	0.2
<b>Subtotal Commercial</b>	<b>46.6</b>	<b>39.6</b>	<b>33.7</b>	<b>15.4</b>	<b>7.8</b>	<b>143.1</b>
Ind. Existing Const. – General	9.2	-	-	-	-	9.2
<b>Total All Sectors</b>	<b>153.7</b>	<b>41.6</b>	<b>57.8</b>	<b>55.4</b>	<b>19.8</b>	<b>328.3</b>