

EXHIBIT NO. _____ (CJB-12)
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.

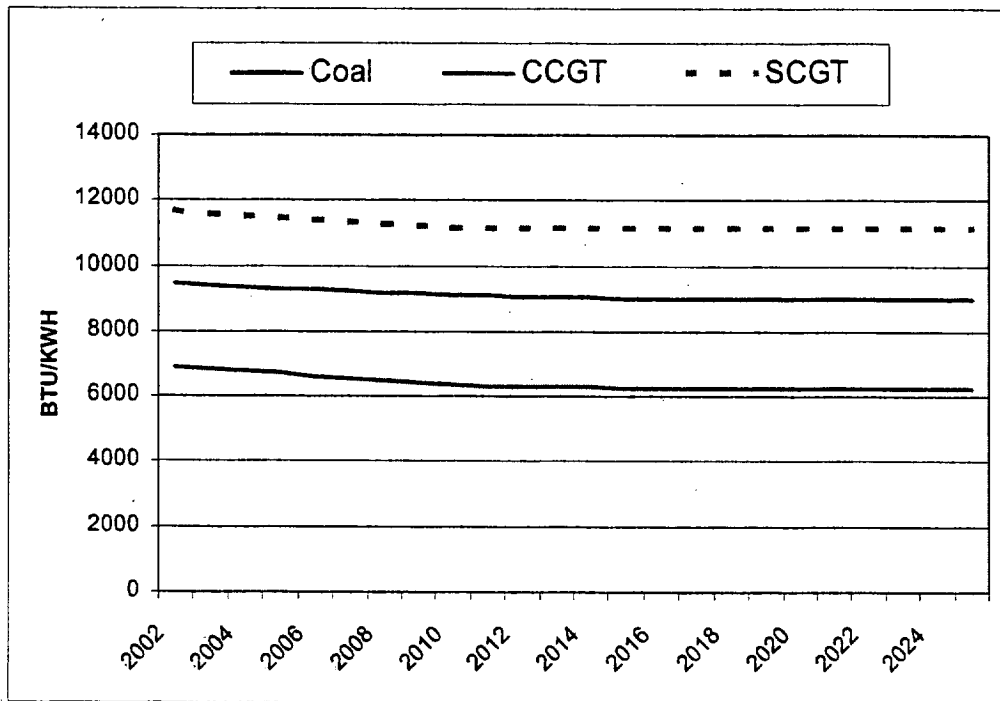
DIRECT TESTIMONY OF
CHARLES J. BLACK
ON BEHALF OF PUGET SOUND ENERGY, INC.

Exhibit CJB-12
 Revised Generic Resource Characteristics and Efficiency Improvements for
 August, 2003 Least Cost Plan Update¹

Cost and Performance Characteristics

Technology	Capacity (mw)	Heat Rate (btu/kwh)	All-In Cost (\$/kw)	Fixed O&M (\$/kw)	Fixed Fuel (\$/kw)	Variable O&M (\$/mwh)
CCCT	516	6,900	710	11.00	15.55	2.00
SCCT	168	11,700	441	3.00	15.74	2.00
Duct Firing	80	9,100	150	0	15.55	2.00
Coal	900	9,425	1,500	20.0	0	2.00
Wind	100	0	1,003	26.10	0	0
Solar	20	0	6,000	15.00	0	0.80

Heat Rate Improvements



¹ Source: August 2003 Least Cost Plan Update, Exhibit 3-17. Table revised 10/21/03 to include Duct Firing assumptions.