

Estimated Benefits of CCA Regulating Reserve Savings

Based on Bart McManus' Analysis of Load Variances in ID,Pac and BPA

	No CCA	CCA	Delta	Low Value	High Value
10 minute moving average					
July 5-11 '04	176.7	102.4	74.3	\$3,566,400	\$5,349,600
April 12-18, '04	184.8	109.8	75	\$3,600,000	\$5,400,000
Jan 27 - Feb. 2, '04	182.7	108	74.7	\$3,585,600	\$5,378,400
July 7-13, '03	181.7	106.2	75.5	\$3,624,000	\$5,436,000
30 minute moving average					
July 5-11 '04	230.5	140.3	90.2	\$4,329,600	\$6,494,400
April 12-18, '04	238.9	148.9	90	\$4,320,000	\$6,480,000
Jan 27 - Feb. 2, '04	241.8	149.7	92.1	\$4,420,800	\$6,631,200
July 7-13, '03	236.3	146.4	89.9	\$4,315,200	\$6,472,800
60 min moving average					
July 5-11 '04	275.4	168	107.4	\$5,155,200	\$7,732,800
April 12-18, '04	287.1	180.8	106.3	\$5,102,400	\$7,653,600
Jan 27 - Feb. 2, '04	297.1	186.4	110.7	\$5,313,600	\$7,970,400
July 7-13, '03	287.3	176.6	110.7	\$5,313,600	\$7,970,400
	Assumed Value:			\$/MW Yr. Low	\$/MW Yr. High
	\$4-\$6 KW/Month			\$48,000	\$72,000

"Regulation Requirement" calculated as 99% bandwidth of the absolute value of MW deviations between 10-second instantaneous loads and X minute moving average loads at every 10 second interval during sample week.

Comparison with Warren McReynold's October 2000 Calculations:

	Original		Adjusted for price difference and subtracting benefits of relaxed NERC standards.		
Company	MW saved	\$ saved (millions)	MW saved	\$ saved (millions)	Relaxed NERC
Avista	19	\$1.5	15.4	\$1.1	3.6
ID Power	22	\$1.7	17.8	\$1.3	4.2
MT Power Co.	13	\$1.0	10.5	\$0.8	2.5
Pac East	46	\$3.5	37.3	\$2.7	8.7
Pac West (OR)	29	\$2.2	23.5	\$1.7	5.5
Pac West (WA)	12	\$0.9	9.7	\$0.7	2.3
PGE	27	\$2.1	21.9	\$1.6	5.1
Puget Sound Energy	31	\$2.4	25.1	\$1.8	5.9
SPP	14	\$1.1	11.3	\$0.8	2.7
BC Hydro	80	\$6.1	64.8	\$4.6	15.2
BPA	71	\$5.5	57.5	\$4.2	13.5
<i>Total</i>	<i>364</i>	<i>\$28.0</i>	<i>295</i>	<i>\$21.3</i>	<i>69.0</i>
McReynolds' Total for PAC, ID, BPA		\$13.8		\$10.5	