

Exhibit 5

Factors Affecting Cost Effectiveness Estimates for Dry FGD at OG&E Units and Other Facilities

Facility	MW gross	Fuel Sulfur Content	Max Heat Input Per Unit (mmBtu/hr)	Baseline Emissions Rate (lb/mmBtu)	Total Annual Cost Per Unit	TPY Removed Per Unit	Assumed Control Effectiveness of (% SO ₂ removal)	Average Annual Cost Effectiveness (\$/ton)
White Bluff Units 1-2	850	0.87%	9,339 – 10,221	Max 24-hour 2001-2003 (0.854-0.915)	\$65.1M	26,591 - 26,802	82.4% - 83.6%	\$2,431 - \$2,450
NCS Unit 1	650 (net)	0.34%	6,776	Max 24-hour from baseline period (0.815)	\$34.7M	19,739	81.6%	\$1,759
GGs Units 1-2	750	0.7%	7,393-7,782	Max 24-hour 2001-2003 (0.749)	\$53.1M-55.3M	19,397-20,418	80.0%	\$2,712 - \$2,740
Boardman Unit 1	617	0.17 - 1.00%	5,793	Highest rolling 12-mo. 2003-2005 (0.614)	\$36.3M	11,259	75.6% ¹	\$3,226
Northeastern Units 3-4	493	0.45 - 0.49%	4,775	Max 24-hour from 2002-2005 (0.90)	\$43.4M	13,280	83.0%	\$3,266
OG&E May 2008 and Sept. 2009 Data								
Sooner Units 1 and 2	569	0.20 - 0.37%	5,116	Annual ave. 2004-2006 (0.509-0.516)	\$71.0M	6,553 - 7,377	80.4% - 80.6%	\$9,625 - \$10,843
Muskogee Units 4 and 5	572	0.20 - 0.37%	5,480	Annual ave. 2004-2006 (0.507-0.514)	\$68.4M	6,846 – 6,953	80.3% - 80.5%	\$9,842 - \$10,004
OG&E December 2009 Data								
Sooner Units 1 and 2	569	0.20 - 0.37%	5,116	3-year ave. 2004-2006 (0.509-0.516)	\$46.8M	6,553 - 7,377	80.4% - 80.6%	\$6,348 - \$7,147
Muskogee Units 4 and 5	572	0.20 - 0.37%	5,480	3-year ave. 2004-2006 (0.507-0.514)	\$50.1M	6,846 – 6,953	80.3% - 80.5%	\$7,211 - \$7,324

¹ This is Portland General Electric's (PG&E) estimate. The Oregon Department of Environmental Quality decided control effectiveness should not be evaluated based on a percent reduction because Boardman already burns low-sulfur coal, and its current SO₂ emission rate is about 0.6 lb/mmBtu. To meet a 90% emission reduction, emissions at the outlet of the control device would need to be 0.06 lb/mmBtu. ODEQ thought this rate was not achievable at the best performing units with similar control devices. See ODEQ BART Report for Boardman at 17, <http://www.deq.state.or.us/aq/haze/docs/deqBartReport.pdf>.

References

- OG&E BART Analyses for Muskogee and Sooner Generating Stations (May 2008)
- Sargent and Lundy BART Cost Effectiveness Update for Sooner and Muskogee Generating Stations (Sept. 17, 2009)
- Revised BART Analysis for White Bluff (Aug. 2008)
- BART Analysis for Nebraska City Station (NCS) Unit 1 (Aug. 2007), available at <http://www.deq.state.ne.us/AirDivis.nsf/Pages/Haze>
- Revised BART Analysis for Gerald Gentleman Station Units 1 and 2 (Feb. 2008), available at <http://www.deq.state.ne.us/AirDivis.nsf/Pages/Haze>
- Portland General Electric BART Analysis for Boardman Power Plant (Nov. 2, 2007), available at <http://blog.oregonlive.com/breakingnews/2007/11/boardman.pdf>
- ODEQ BART Report for Boardman Power Plant (Dec. 19, 2008), available at <http://www.deq.state.or.us/aq/haze/docs/deqBartReport.pdf>.