

Baseline Emissions

Pre-Control

	Average 2006 - 2008		Uncontrolled		1995	1996	1997	
	(tons/year)	(lb/MMBtu)	(tons/year)	(lb/MMBtu)		tons/yr	lb/MMBtu	
Unit 5								
NOx	768	0.378	864.4	0.835	1133	742	718.141	0.8346 from CAMD
SO2	1269	0.629	567.3		713	474.3	514.717	from CAMD
PM	27	0.013	26906.7	13.499 from APENs				
PM10	26.9	0.013	26906.7	13.499 from APENs				
Unit 6								
NOx	1413	0.415	2578.4	0.881	2738	2255	2742.156	0.8809 from CAMD
SO2	2785	0.820	2091.4		2059	1837.3	2091.376	from CAMD
PM	58	0.020	57606.7	20.256 from APENs				
PM10	57.6	0.020	57606.7	20.256 from APENs				
Unit 7								
NOx	2081.0	0.393	4422.1	0.928	4237	4294	4735.183	0.9281 from CAMD
SO2	4428.7	0.833	3147.5		2930	3079.2	3433.429	from CAMD
PM	54.6	0.011	54573.3	10.505 from APENs				
PM10	54.6	0.011	54573.3	10.505 from APENs				

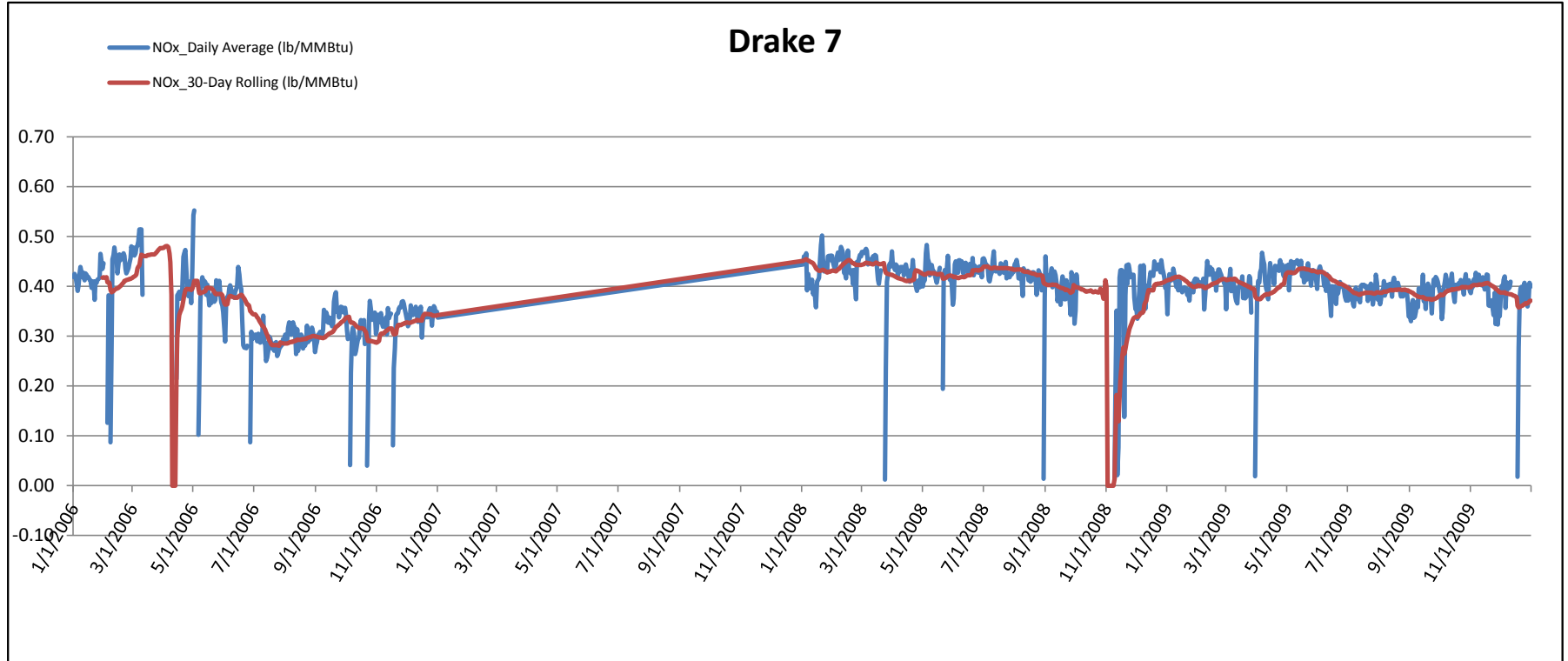
Used data from CAMD query

Heat Input (MMBtu/year)	2006	2007	2008 Average	(lb/year)	(lb/hr)
Unit 5	4123787	3464652	4371282	3986573.667	406,890,110
Unit 6	3446957	7105510	6510699	5687722	
Unit 7	10155928	11454052	9559725	10389901.67	

Unit 5				
Uncontrolled AP-42 Emission Factors	NOx	SO2	PM	PM10
	(lb/ton)	(lb/ton)	(lb/ton)	(lb/ton)
	22	13.62	81.45	18.73
convert to lb/MMBtu	1.123	0.695	4.156	0.956
Controlled (%)	54.7%	n/a	99.7%	98.6%

Unit 6				
Uncontrolled AP-42 Emission Factors	NOx	SO2	PM	PM10
	(lb/ton)	(lb/ton)	(lb/ton)	(lb/ton)
	22	17.898	103.82	23.88
convert to lb/MMBtu	1.023	0.833	4.829	1.111
Controlled (%)	52.8%	n/a	99.6%	98.2%

Unit 7				
Uncontrolled AP-42 Emission Factors	NOx	SO2	PM	PM10
	(lb/ton)	(lb/ton)	(lb/ton)	(lb/ton)
	22	18.81	111.43	25.63
convert to lb/MMBtu	0.990	0.846	5.012	1.153
Controlled (%)	57.7%	n/a	99.8%	99.1%



Maximum 30-day rolling Emission Rate
'NOx [lb/MMBtu] = 0.5357

CSU DRAKE BART SO2 COST ANALYSIS

Alternative	Control Efficiency (%)	Resultant Emissions								
		Unit 5			Unit 6			Unit 7		
		(tons/year)	Annual Average (lb/MMBtu)	30-day Rolling Average (lb/MMBtu)	(tons/year)	Annual Average (lb/MMBtu)	30-day Rolling Average (lb/MMBtu)	(tons/year)	Annual Average (lb/MMBtu)	30-day Rolling Average (lb/MMBtu)
Baseline	---	1,269	0.63		2,785	0.82		4,429	0.83	
DSI	60	508	0.25	0.26	1,114	0.33	0.34	1,771	0.33	0.35
Dry FGD (LSD) @ 82% control	82				501	0.15	0.15	797	0.15	0.16
Dry FGD (LSD) @ 85% control	85				418	0.12	0.13	664	0.12	0.13
Dry FGD (LSD) @ 90% control	90				279	0.08	0.09	443	0.08	0.09

UNIT 5				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
DSI	761.5	\$1,340,663	\$1,760	\$1,760

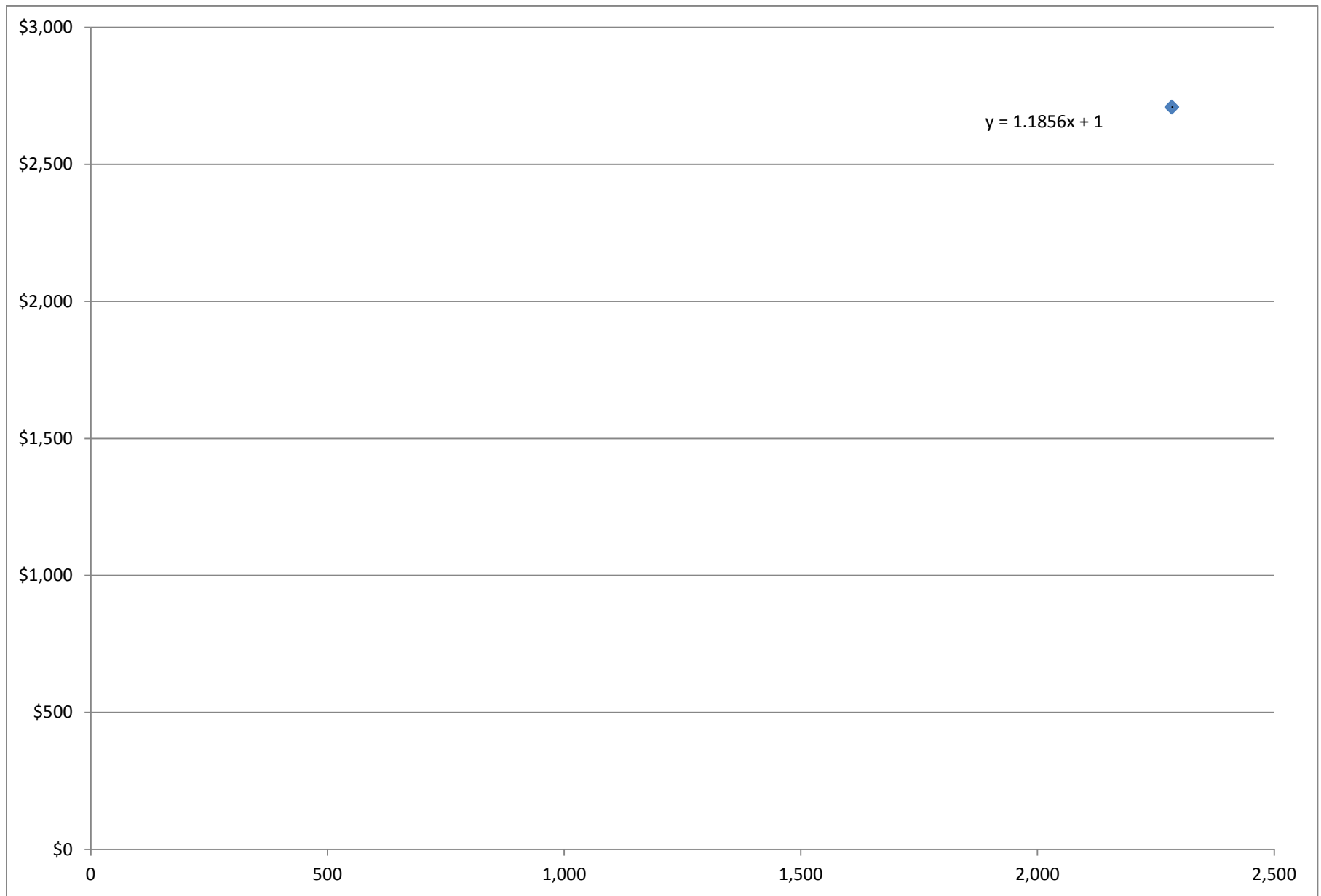
FOR SCALING:

Unit 5 51 MW
Unit 6 85 MW
Unit 7 142 MW

UNIT 6				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
DSI	1,671	\$2,234,438	\$1,337	\$1,337
Dry FGD (LSD) @ 82% control (0.15 lb/MMBtu)	2,284	\$6,186,854	\$2,709	\$6,450
Dry FGD (LSD) @ 85% control (0.12 lb/MMBtu)	2,367.5	\$6,647,835	\$2,808	\$5,517
Dry FGD (LSD) @ 90% control (0.08 lb/MMBtu)	2,507	\$7,452,788	\$2,973	\$5,780

UNIT 7				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
DSI	2,657	\$3,732,826	\$1,405	\$1,405
Dry FGD (LSD) @ 82% control (0.15 lb/MMBtu)	3,632	\$8,216,863	\$2,263	\$4,602
Dry FGD (LSD) @ 85% control (0.12 lb/MMBtu)	3,764.4	\$8,829,321	\$2,345	\$4,610
Dry FGD (LSD) @ 90% control (0.08 lb/MMBtu)	3,986	\$9,898,382	\$2,483	\$4,828

CSU DSI COSTS (partially based on CENC cost estimates)			PROVIDED ON MAY 10, 2010 AT DIVISION'S REQUEST	
Capital Costs				
Trona - DSI (Unit 5)				
SCALING	SIZE	CAPITAL COSTS		
CEN Boiler 4	35	\$	6,111,180	
CEN Boiler 5	65	\$	6,111,180	
Drake Unit 5	51	\$	6,000,000	rough estimate based on comparison to similarly sized DSI systems; informal estimate by DSI vendor, order of magnitude estimate for BOP
Addition of activated carbon for Hg (mercury) removal		\$	850,000	previously provided to APCD in BART analysis for Drake power plant - not included in Division cost analysis
TOTAL CAPITAL COSTS		\$	6,000,000	
O&M Costs				
Trona - DSI (Unit 5)				
Annual Trona Costs	\$	238,587	(Assumes Trona is \$130/ton)	1269 baseline SO2 emissions for Unit 5
Annual Disposal Costs				60% removal
Annual Electrical Costs				762 SO2 removed
Operating Labor				
Supervisor				1835 Trona consumption - 2.41 * SO2 removed (weight ratio of Trona to SO2, assumes NSR of 1.0)
Maintenance Labor	\$	600,000	estimated as 10% of cap	
Maintenance Materials				
Overhead				
Property Tax				
Insurance				
Administration				
Mercury removal cost	\$	225,000	previously provided to APCD in BART analysis for Drake power plant - not included in Division cost analysis	
Capital Recovery	\$	502,076	5.5%, 20 years	
Original Annualized Costs	\$	1,340,663		
COMPARISON (Annualized to total)	22%			
CSU semi-dry FGD COSTS			PROVIDED IN BART UPDATE SUBMITTAL (March 29, 2007)	
		Unit 6	Unit 7	
TOTAL PLANT COST	\$	38,000,000	\$	44,166,000
Annual Capital Recovery Cost (5.5% interest, 20 years)	\$	3,179,815	\$	3,695,781
O&M COSTS				
Maintenance Labor & Materials	\$	492,685	\$	638,597
Operating Labor				
Admin & Support				
Prorated Common Maint Labor & Mat'l, Operating Labor, Admin & Support	\$	859,047	\$	1,332,970
TOTAL FIXED O&M COSTS	\$	1,351,732	\$	1,971,567
Reagent Costs (1.2 stoic. Ratio)	\$	393,750	\$	612,500
All other variable operating costs	\$	525,297	\$	815,095
TOTAL VARIABLE O&M COSTS	\$	919,047	\$	1,427,595
Replacement Energy Cost	\$	643,860	\$	981,120
Replacement Capacity Cost	\$	92,400	\$	140,800
TOTAL SCRUBBING COST	\$	6,186,854	\$	8,216,863
Mercury Removal Capital Cost	\$	857,500	\$	1,750,000
Annual Mercury Capital Recovery Cost	\$	71,755	\$	146,439
Mercury Removal O&M Cost	\$	325,000	\$	450,000
Total Mercury Removal Cost	\$	396,755	\$	596,439
SO2 Allowance Savings per Ton (estimate of 2013 allowance value)	\$	(200)	\$	(200)
				IN APCD'S COST ANALYSIS



\$2,263

\$2,263

0

500

1,000

1,500

2,000

2,500

3,000

3,500

4,000

$y = 0.6228x + 1$



CSU DRAKE BART NOx COST ANALYSIS

Alternative	Control Efficiency (%)	Resultant Emissions		
		Unit 5		
		Annual Emissions (tons/year)	Annual Average (lb/MMBtu)	30-day rolling (lb/MMBtu)
Baseline	---	768	0.38	0.44
Overfire air (OFA)	20	615	0.30	0.35
Ultra-low NOx burners (ULNBs)	26	569	0.280	0.32
Ultra-low NOx burners (ULNBs) + OFA	28	553	0.272	0.31
Selective Non-Catalytic Reduction (SNCR)	30	538	0.26	0.30
ULNB+SCR	81.5	142	0.070	0.080
Selective Catalytic Reduction (SCR)	81.5	142	0.070	0.080

Alternative	Control Efficiency (%)	Resultant Emissions		
		Unit 6		
		(tons/year)	Annual Average (lb/MMBtu)	30-day rolling (lb/MMBtu)
Baseline	---	1,413	0.42	0.48
Overfire air (OFA)	20	1,130	0.33	0.38
Selective Non-Catalytic Reduction (SNCR)	30	989	0.291	0.33
Ultra-low NOx burners (ULNBs)	32	961	0.282	0.32
Ultra-low NOx burners (ULNBs) + OFA	36	904	0.266	0.31
ULNB+SCR	83.2	237	0.070	0.080
Selective Catalytic Reduction (SCR)	83.2	237	0.070	0.080

Alternative	Control Efficiency (%)	Resultant Emissions		
		Unit 7		
		(tons/year)	Annual Average (lb/MMBtu)	30-day rolling (lb/MMBtu)
Baseline	---	2,081	0.39	0.45
Overfire air (OFA)	20	1,665	0.31	0.36
Ultra-low NOx burners (ULNBs)	28	1,498	0.283	0.33
Selective Non-Catalytic Reduction (SNCR)	30	1,457	0.275	0.32
Ultra-low NOx burners (ULNBs) + OFA	36	1,332	0.251	0.29
ULNB+SCR	82.1	372	0.070	0.081
Selective Catalytic Reduction (SCR)	82.1	372	0.070	0.081

UNIT 5				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
Overfire air (OFA)	154	\$141,844	\$923	\$923
Ultra-low NOx burners (ULNBs)	200	\$147,000	\$736	\$112
Ultra-low NOx burners (ULNBs) + OFA	215.2	\$288,844	\$1,342	\$9,230
Selective Non-Catalytic Reduction (SNCR)	230.5	\$1,011,324	\$4,387	\$47,011
ULNB+SCR	626.3	\$4,467,000	\$7,133	\$8,732
Selective Catalytic Reduction (SCR)	626	\$4,580,349	\$7,314	---

UNIT 6				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
Overfire air (OFA)	283	\$104,951	\$371	\$371
Selective Non-Catalytic Reduction (SNCR)	423.8	\$1,208,302	\$2,851	\$7,810
Ultra-low NOx burners (ULNBs)	452	\$232,800	\$515	(\$34,525)
Ultra-low NOx burners (ULNBs) + OFA	509	\$337,751	\$664	\$1,857
ULNB/SCR layered approach	1,175.4	\$6,182,800	\$5,260	\$8,226
Selective Catalytic Reduction (SCR)	1,175	\$6,340,797	\$5,395	---

UNIT 7				
Alternative	Emissions Reduction (tpy)	Annualized Cost (\$)	Cost Effectiveness (\$/ton)	Incremental Cost (\$/ton)
Baseline	0	\$0	\$0	---
Overfire air (OFA)	416	\$75,217	\$181	\$181
Ultra-low NOx burners (ULNBs)	583	\$386,000	\$662	\$1,867
Selective Non-Catalytic Reduction (SNCR)	624.3	\$2,018,575	\$3,233	\$39,226
Ultra-low NOx burners (ULNBs) + OFA	749.1	\$461,217	\$616	(\$12,473)
ULNB/SCR layered approach	1,708.5	\$8,196,000	\$4,797	\$5,698
Selective Catalytic Reduction (SCR)	1,708	\$8,510,067	\$4,981	---

CSU COSTS - Overfire Air PROVIDED IN ORIGINAL BART SUBMITTAL (2006)

Capital Costs			
OFA - Unit 5	OFA - Unit 6	OFA - Unit 7	Notes
Basic Equipment - NOx Equipment			
NOx Equipment Installation			
NOx Control Modification			
Control Installation & Integration			
Lost Revenue - NOx Equip+Control Install			
TOTAL CAPITAL COST	\$1,106,842	\$770,531	\$553,384
Retrofit Factor	1.30	1.40	1.40
Adjusted Retrofit Capital Cost	\$1,438,895	\$1,078,743	\$774,738
Capital Cost w/ Inflation Factor (2%)	\$1,467,672	\$1,100,318	\$790,232
\$/kW	\$ 29	\$ 13	\$ 6
O&M Costs			
Increased Carbon Loss (Loss on Ignition)			
Annual Electrical Costs (NOx equipment)	\$3,396	\$1,938	\$1,156 Variable O&M Costs
Operating Labor			
Supervisor			
Maintenance Labor			
Maintenance Materials			
Overhead			
Property Tax			
Insurance			
Administration	\$15,634	\$10,939	\$7,935 Fixed O&M Costs
Capital Recovery	\$122,814	\$92,074	\$66,126 5.5%, 20 years
TOTAL ANNUALIZED COST	\$141,844	\$104,951	\$75,217
Annual/Total Capital Cost	9.9%	9.7%	9.7%

CSU Costs - Ultra low NOx burners PROVIDED ON 2/2/2009 - SO2 and NOx Emissions Control Cost & Feasibility Information for Drake and Nixon Plants

Capital Costs			
ULNBs - Unit 5	ULNBs - Unit 6	ULNBs - Unit 7	Notes
Basic Equipment - NOx Equipment			
NOx Equipment Installation	\$ 340,000	\$ 550,000	\$ 930,000
Construction Management	\$ 390,000	\$ 630,000	\$ 1,070,000
Craft Supervision	\$ 50,000	\$ 80,000	\$ 140,000
Startup	\$ 40,000	\$ 40,000	\$ 40,000
Contingency (@ 20%)	\$ 30,000	\$ 30,000	\$ 30,000
Boiler modeling and pulverizer modifications	\$ 170,000	\$ 270,000	\$ 440,000
TOTAL CAPITAL COST	\$ 408,000	\$ 640,000	\$ 1,060,000
\$/kW	\$ 1,428,000	\$ 2,240,000	\$ 3,710,000
	\$ 28	\$ 26	\$ 26
O&M Costs			
Increased Carbon Loss (Loss on Ignition)			
Operating Labor	\$ 7,000	\$ 13,000	\$ 22,000
Supervisor			
Maintenance Labor			
Maintenance Materials			
Overhead			
Property Tax			
Insurance			
Administration	\$ 12,207	\$ 8,360	\$ 13,802
Capital Recovery	\$ 134,793	\$ 211,440	\$ 350,198 7%, 20 years
TOTAL ANNUALIZED COST	\$ 147,000	\$ 232,800	\$ 386,000
Annual/Total Capital Cost	10.3%	10.4%	10.4%

CSU Costs - SCR/ULNB+SCR PROVIDED ON 2/2/2009 - SO2 and NOx Emissions Control Cost & Feasibility Information for Drake and Nixon Plants

Capital Costs			
SCR - Unit 5	SCR - Unit 6	SCR - Unit 7	Notes
SCR system including reactor & injection			
Ammonia Handling and Injection	\$ 2,230,000	\$ 2,950,000	\$ 4,680,000
Air Preheater Modifications	\$ 1,318,800	\$ 1,160,000	\$ 1,760,000 x1.57 for retrofit difficulty (Unit 5 only)
Miscellaneous equipment capital costs	\$ 769,300	\$ 1,131,500	\$ 1,805,400 x1.57,1.55,1.53 for retrofit difficulty (Unit 5,6,7 respectively)
ID fan modifications/replacemnt	\$ 361,100	\$ 480,500	\$ 780,300 x1.57,1.55,1.53 for retrofit difficulty (Unit 5,6,7 respectively)
Inlet Duct	\$ 1,148,100	\$ 1,478,400	\$ 1,976,000 x2.64,2.63,2.6 for retrofit difficulty (Unit 5,6,7 respectively)
Outlet Duct	\$ 1,540,000	\$ 2,000,200	\$ 3,070,200 x1.4,1.37,1.29 for retrofit difficulty (Unit 5,6,7 respectively)
Contractor Fees	\$ 1,554,000	\$ 2,027,600	\$ 3,096,000 x1.4,1.37,1.29 for retrofit difficulty (Unit 5,6,7 respectively)
	\$ 890,000	\$ 1,190,000	\$ 1,810,000 approximately 10% of direct costs
TOTAL INSTALLED COST W/ RETROFIT	\$ 17,660,340	\$ 22,352,760	\$ 26,569,060 x1.8,1.8,1.4 for retrofit difficulty (Unit 5,6,7 respectively)
General Facilities	\$ 880,000	\$ 1,170,000	\$ 1,400,000 approximately 5% of total installed cost w/retrofit
Engineering & Project Management	\$ 1,770,000	\$ 2,350,000	\$ 2,790,000 approximately 10% of total installed cost w/retrofit
Contingencies	\$ 3,530,000	\$ 4,690,000	\$ 5,590,000 approximately 20% of total installed cost w/retrofit
Preproduction Costs	\$ 640,000	\$ 870,000	\$ 1,100,000
Inventory Capital	\$ 70,000	\$ 110,000	\$ 170,000
Initial Catalyst and Chemicals	\$ 970,000	\$ 1,480,000	\$ 2,430,000
Prepaid Royalties (Owner's Cost)	\$ 349,660	\$ 1,567,240	\$ 1,870,940
Market Demand Escalation	\$ 2,590,000	\$ 3,460,000	\$ 4,190,000
TOTAL CAPITAL COST (SCR)	\$ 28,460,000	\$ 38,050,000	\$ 46,110,000
TOTAL CAPITAL COST (ULNB+SCR)	\$ 29,368,000	\$ 39,540,000	\$ 48,110,000
\$/kW	\$ 558	\$ 448	\$ 325

O&M Costs			
SCR - Unit 5	SCR - Unit 6	SCR - Unit 7	Notes
Catalyst replacement			
Reagent (Aqueous Ammonia)	\$ 320,000	\$ 490,000	\$810,000
Operating Labor	\$ 770,000	\$ 1,180,000	\$1,940,000
Maintenance Labor	\$ 90,000	\$ 100,000	\$110,000
Maintenance Materials	\$ 360,000	\$ 480,000	\$570,000
Electricity	\$ 40,000	\$ 60,000	\$100,000
Capital Recovery	\$ 150,000	\$ 230,000	\$370,000
	\$ 2,850,349	\$ 3,800,797	\$ 4,610,067 approx 7.7%, 20 years
TOTAL ANNUALIZED COST	\$ 4,580,349	\$ 6,340,797	\$ 8,510,067
ULNB+SCR ANNUALIZED COST	\$ 4,467,000	\$ 6,182,800	\$ 8,196,000
SCR only adjusted to 15%	\$ 4,269,000	\$ 5,707,500	\$ 6,916,500
Annual/Total Capital Cost (SCR)	16.1%	16.7%	18.5%
Annual/Total Capital Cost (ULNB+SCR)	15.2%	15.6%	17.0%
COST DIFFERENCE to adjust to 15%	\$ 311,349	\$ 633,297	\$ 1,593,567

THE DIVISION DID NOT CONDUCT ADDITIONAL ULNB+SCR COST ANALYSIS SINCE THE SCR COSTS WERE DEEMED REASONABLE AND ULNB+SCR WERE CHEAPER THAN SCR

Adjust to \$300/kW	\$ 15,300,000	\$ 25,500,000	\$ 42,600,000
\$/kW	\$ 300	\$ 300	\$ 300
Adjusted Capital Recovery	\$ 1,532,338	\$ 2,553,897	\$ 4,266,510
Adjust Annualized Cost (\$300/kW)	\$ 3,262,338	\$ 5,093,897	\$ 8,166,510
SCR \$/ton	\$ 5,209	\$ 4,334	\$ 4,780

NOTES:			
CSU DID NOT INCLUDE OVERHEAD (typically 60% of O&M, labor, and maint. Mtl costs OR taxes,insurance, and administration)			
Predicted Overhead	\$ 294,000	\$ 384,000	\$ 468,000
Predicted Taxes, Insurance, and Administration	\$ 706,414	\$ 894,110	\$ 1,062,762
total	\$ 1,000,414	\$ 1,278,110	\$ 1,530,762

	2006			2007			2008			Average		
	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash	Fuel Heating Value	% Sulfur	% Ash
Unit 5	9935		0.368	8.685	9822	0.383	8.708	9636	0.324	7.041	9798	0.36
Unit 6	10804		0.462	10.628	10515	0.47	10.525	10927	0.481	9.993	10749	0.47
Unit 7	10858		0.479	11.179	11474	0.526	11.9	11018	0.48	10.351	11117	0.50

Coal Mine/Region		Southern PRB			
Coal Rank Classification		Sub-bituminous			
Year	Moisture %	Ash %	Sulfur %	Btu/Lb	Nitrogen %
2006	27.02	4.65	0.21	8,816.34	0.73
2007	27.06	4.66	0.22	8,808.64	0.66
2008	27.23	4.61	0.20	8,788.98	0.67
2009	27.38	4.63	0.22	8,753.77	0.69

Avg. 06 - 08	27.11	4.64	0.21	8,804.65	0.69
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Coal Mine/Region		20-Mile Foidel Creek			
Coal Rank Classification		Bituminous			
Year	% Moisture	% Ash	% Sulfur	Btu/Lb	% Nitrogen
2006	9.49	12.53	0.54	11,005.58	1.54
2007	9.56	12.52	0.53	10,999.92	1.60
2008	9.81	10.73	0.50	11,246.92	1.58
2009	10.12	10.48	0.49	11,217.42	1.62

Avg. 06 - 08	9.62	11.93	0.52	11,084.14	1.57
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Coal Mine/Region		Colowyo			
Coal Rank Classification		Sub-bituminous, Class A			
Year	% Moisture	% Ash	% Sulfur	Btu/Lb	% Nitrogen
2006	Non-Received				
2007	17.16	5.50	0.35	10,477.00	1.34
2008	17.68	5.92	0.39	10,307.00	1.35
2009	Non-Received				

Avg. 06 - 08	17.42	5.71	0.37	10,392.00	1.35
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Coal Mine/Region		West Elk			
Coal Rank Classification		Bituminous			
Year	% Moisture	% Ash	% Sulfur	Btu/Lb	% Nitrogen
2006	Non-Received				
2007	7.55	8.71	0.45	12,266.00	1.30
2008	Non-Received				
2009	11.13	5.15	0.43	11,849.00	1.65

Avg. 06 - 08	7.55	8.71	0.45	12,266.00	1.30
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NOx Control Scenario	Boiler(s)	NOx Emission Rate (lb/MMBtu)*	Output (@ 98 th Percentile Impact)	98 th Percentile Impact Improvement	98 th Percentile Improvement from Maximum	Cost Effectiveness
			(dv)	(Δ dv)	(%)	(\$/dv)
Max 24-hour NOx rates	5	0.619	1.84	---	---	---
	6	0.827				
	7	0.710				
NOx Control Scenario	5	0.390	1.79	0.05	3%	n/a
	6	0.390	1.68	0.16	9%	n/a
	7	0.390	1.66	0.18	10%	n/a
OFA	5	0.300*	1.76	0.07	4%	\$1,970,053
	6	0.330*	1.66	0.180	10%	\$583,061
	7	0.310*	1.61	0.22	12%	\$335,791
ULNB	5	0.280*	1.76	0.08	4%	\$1,934,212
	6	0.282*	1.64	0.197	11%	\$1,181,727
	7	0.283*	1.60	0.24	13%	\$1,615,062
SNCR	5	0.265*	1.76	0.08	4%	\$12,641,549
	6	0.291*	1.64	0.19	11%	\$6,260,633
	7	0.275*	1.59	0.24	13%	\$8,272,850
ULNBs+OFA	5	0.272*	1.76	0.08	4%	\$3,703,128
	6	0.266*	1.63	0.20	11%	\$1,663,798
	7	0.251*	1.58	0.26	14%	\$1,794,618
NOx Control Scenario	5	0.234	1.75	0.24	5%	n/a
	6	0.234	1.62	0.24	12%	n/a
	7	0.234	1.57	0.24	15%	n/a
SCR	5	0.070	1.71	0.12	7%	\$36,024,194
	6	0.070	1.56	0.27	15%	\$22,647,619
	7	0.070	1.47	0.37	20%	\$22,091,644
Combo	5	0.321	0.25	1.59	86%	n/a
	6	0.070				
	7	0.070				

NOx Control Scenario	Boiler(s)	NOx Emission Rate (lb/MMBtu)*	Class I Area Affected	3-year totals		Δdays	3-year totals		Δdays
				Pre-Control Days >0.5 dv	Post-Control Days >0.5 dv		Pre-Control Days >1.0 dv	Post-Control Days >1.0 dv	
Max 24-hour NOx rates	5	0.619	Rocky Mountain National Park	34	---	---	17	---	---
	6	0.827							
	7	0.710							
NOx Control Scenario	5	0.390		34	34	0	17	15	2
	6	0.390		34	31	3	17	14	3
	7	0.390		34	31	3	17	14	3
OFA	5	0.300*		n/a					
	6	0.330*		n/a					
	7	0.310*		n/a					
ULNB	5	0.280*		n/a					
	6	0.282*		n/a					
	7	0.283*		n/a					
SNCR	5	0.265*		n/a					
	6	0.291*		n/a					
	7	0.275*		n/a					
ULNBs+OFA	5	0.272*		n/a					
	6	0.266*		n/a					
	7	0.251*		n/a					
NOx Control Scenario	5	0.234		34	34	0	17	14	3
	6	0.234		34	31	3	17	14	3
	7	0.234		34	28	6	17	14	3
SCR	5	0.070		34	32	2	17	14	3
	6	0.070		34	27	7	17	14	3
	7	0.070		34	26	8	17	13	4
Combo	5	0.321		34	1	33	17	0	17
	6	0.070							
	7	0.070							