

Appendix D: Response Surface Model Control Measures

Factor Name	Control Measure	Typical Control Efficiency	Cost Per Ton
NOx EGU	Combustion Optimization	20.00	-25
NOx EGU	Selective Non-Catalytic Reduction (SNCR)	35.00	N/A
NOx EGU	Natural Gas Reburn (NGR)	50.00	N/A
NOx EGU	Selective Catalytic Reduction (SCR)	90.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Close-Coupled Overfire Air	33.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Separated Overfire Air	38.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Close-Coupled and Separated Overfire Air	53.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Close-Coupled Overfire Air	43.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Separated Overfire Air	48.00	N/A
NOx EGU	Lox NOx Coal-and-Air Nozzles with Close-Coupled and Separated Overfire Air	58.00	N/A
NOx EGU	Selective Non-Catalytic Reduction (SNCR)	35.00	N/A
NOx EGU	Natural Gas Reburn (NGR)	50.00	N/A
NOx EGU	Selective Catalytic Reduction (SCR)	90.00	N/A
NOx EGU	Lox NOx Burner	41.00	N/A
NOx EGU	Lox NOx Burner with Overfire Air	56.00	N/A
NOx EGU	Lox NOx Burner	40.00	N/A
NOx EGU	Lox NOx Burner with Overfire Air	55.00	N/A
NOx EGU	Selective Non-Catalytic Reduction (SNCR)	35.00	N/A
NOx EGU	Natural Gas Reburn (NGR)	50.00	N/A
NOx EGU	Selective Catalytic Reduction (SCR)	80.00	N/A
NOx EGU	Selective Non-Catalytic Reduction (SNCR)	50.00	N/A
NOx EGU	Natural Gas Reburn (NGR)	50.00	N/A
NOx EGU	Selective Catalytic Reduction (SCR)	80.00	N/A
NOx EGU	Repowering to IGCC	99.00	N/A
NOx NonEGU + Area	Thermal Reduction	81.00	555
NOx NonEGU + Area	Extended Absorption	86.00	119
NOx NonEGU + Area	Low NOx Burner	50.00	1,083
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,381
NOx NonEGU + Area	Oxygen Trim + Water Injection	65.00	898
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	2,945
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	5,111
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	2,166
NOx NonEGU + Area	Biosolid Injection Technology	23.00	337

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NOx NonEGU + Area	Mid-Kiln Firing	25.00	73
NOx NonEGU + Area	Low NOx Burner	25.00	581
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Ammonia Based	50.00	1,017
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Ammonia Based	50.00	1,123
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	4,450
NOx NonEGU + Area	Mid-Kiln Firing	25.00	60
NOx NonEGU + Area	Low NOx Burner	25.00	478
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,803
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Low NOx Burner	50.00	1,928
NOx NonEGU + Area	Water Injection	68.00	1,704
NOx NonEGU + Area	Selective Catalytic Reduction (SCR) + Water Injection	90.00	3,037
NOx NonEGU + Area	Water Injection	76.00	1,994
NOx NonEGU + Area	Steam Injection	80.00	1,373
NOx NonEGU + Area	Dry Low NOx Combustor	50.00	132
NOx NonEGU + Area	Selective Catalytic Reduction (SCR) + Low NOx Burner (LNB)	94.00	3,394
NOx NonEGU + Area	Selective Catalytic Reduction (SCR) + Steam Injection	95.00	2,654
NOx NonEGU + Area	Selective Catalytic Reduction (SCR) + Water Injection	95.00	3,605
NOx NonEGU + Area	Water Injection	68.00	1,704
NOx NonEGU + Area	Selective Catalytic Reduction (SCR) + Water Injection	90.00	3,037
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	45.00	1,492
NOx NonEGU + Area	Water Heater Replacement	7.00	N/A
NOx NonEGU + Area	Water Heaters + LNB Space Heaters	7.00	1,624
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Low NOx Burner	40.00	2,232
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Low NOx Burner	50.00	753
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	50.00	734
NOx NonEGU + Area	Electric Boost	10.00	9,442
NOx NonEGU + Area	Cullet Preheat	25.00	1,241
NOx NonEGU + Area	Low NOx Burner	40.00	2,232
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	2,337
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	2,905
NOx NonEGU + Area	OXY-Firing	85.00	6,062
NOx NonEGU + Area	Electric Boost	10.00	3,064
NOx NonEGU + Area	Low NOx Burner	40.00	924
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	977

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NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	938
NOx NonEGU + Area	OXY-Firing	85.00	2,509
NOx NonEGU + Area	Electric Boost	10.00	11,569
NOx NonEGU + Area	Cullet Preheat	25.00	1,070
NOx NonEGU + Area	Low NOx Burner	40.00	1,981
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	2,166
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	3,341
NOx NonEGU + Area	OXY-Firing	85.00	5,150
NOx NonEGU + Area	L-E (Low Speed)	87.00	232
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	90.00	3,657
NOx NonEGU + Area	Ignition Retard	25.00	1,017
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,090
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	35.00	1,109
NOx NonEGU + Area	Coal Reburn	50.00	396
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	1,083
NOx NonEGU + Area	Natural Gas Reburn (NGR)	55.00	2,073
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	40.00	885
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	1,079
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	1,109
NOx NonEGU + Area	Low NOx Burner	50.00	1,439
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	70.00	1,413
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	1,373
NOx NonEGU + Area	Low NOx Burner	50.00	1,928
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	70.00	1,664
NOx NonEGU + Area	Low NOx Burner	50.00	1,558
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,288
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,671
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	6,128
NOx NonEGU + Area	Low NOx Burner	50.00	1,558
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,288
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,671
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	6,128
NOx NonEGU + Area	Low NOx Burner	50.00	528
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	1,479
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	1,955
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	2,496
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	55.00	2,232

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NOx NonEGU + Area	Low NOx Burner	50.00	1,083
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,381
NOx NonEGU + Area	Oxygen Trim + Water Injection	65.00	898
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	2,945
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	2,073
NOx NonEGU + Area	Low NOx Burner	50.00	1,083
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,381
NOx NonEGU + Area	Oxygen Trim + Water Injection	65.00	898
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	2,945
NOx NonEGU + Area	Low NOx Burner	50.00	528
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	1,479
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	1,955
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	1,387
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	55.00	1,572
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Low NOx Burner	37.00	3,328
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	40.00	1,664
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	50.00	1,017
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	50.00	1,017
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	45.00	1,492
NOx NonEGU + Area	RACT to 50 tpy (LNB)	21.00	1,783
NOx NonEGU + Area	RACT to 25 tpy (LNB)	21.00	1,783
NOx NonEGU + Area	RACT to 50 tpy (LNB)	31.00	1,017
NOx NonEGU + Area	RACT to 25 tpy (LNB)	31.00	1,017
NOx NonEGU + Area	RACT to 50 tpy (LNB)	36.00	1,558
NOx NonEGU + Area	RACT to 25 tpy (LNB)	36.00	1,558
NOx NonEGU + Area	L-E (Medium Speed)	20.00	1,347
NOx NonEGU + Area	Air/Fuel Ratio Adjustment	20.00	502
NOx NonEGU + Area	Air/Fuel + Ignition Retard	30.00	607
NOx NonEGU + Area	L-E (Medium Speed)	87.00	502
NOx NonEGU + Area	Ignition Retard	25.00	1,017
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,090
NOx NonEGU + Area	Low NOx Burner	50.00	753
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	990
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	2,166

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NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	80.00	2,271
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	85.00	5,058
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	90.00	5,388
NOx NonEGU + Area	Low NOx Burner	50.00	647
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	766
NOx NonEGU + Area	Low Excess Air (LEA)	13.00	1,743
NOx NonEGU + Area	Low NOx Burner	66.00	396
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	77.00	502
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	77.00	502
NOx NonEGU + Area	Mid-Kiln Firing	30.00	607
NOx NonEGU + Area	Low NOx Burner	30.00	740
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Urea Based	50.00	1,017
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR) Ammonia Based	50.00	1,123
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	4,450
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	45.00	5,956
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	45.00	1,492
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	20.00	2,180
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	97.00	779
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	N/A	N/A
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Low NOx Burner	45.00	4,583
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	48.00	5,613
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	4,200
NOx NonEGU + Area	Ultra Low NOx Burner	74.00	2,826
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	12,189
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	78.00	4,781
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	92.00	12,044
NOx NonEGU + Area	Low NOx Burner	45.00	4,583
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	48.00	5,613
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	4,200
NOx NonEGU + Area	Ultra Low NOx Burner	74.00	2,826
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	12,189
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	78.00	4,781
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	92.00	12,044
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	3,764

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NOx NonEGU + Area	Ultra Low NOx Burner	75.00	1,981
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	15,900
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	80.00	4,649
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	88.00	15,266
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	34.00	4,609
NOx NonEGU + Area	Low NOx Burner	37.00	3,328
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	2,549
NOx NonEGU + Area	Ultra Low NOx Burner	73.00	1,704
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	75.00	3,037
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	7,065
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	91.00	7,158
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	3,764
NOx NonEGU + Area	Ultra Low NOx Burner	75.00	1,981
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	15,900
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	80.00	4,649
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	88.00	15,266
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	34.00	4,609
NOx NonEGU + Area	Low NOx Burner	37.00	3,328
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	60.00	2,549
NOx NonEGU + Area	Ultra Low NOx Burner	73.00	1,704
NOx NonEGU + Area	Low NOx Burner - Selective Non-Catalytic Reduction (SNCR)	75.00	3,037
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	75.00	7,065
NOx NonEGU + Area	Low NOx Burner (LNB) + Selective Catalytic Reduction (SCR)	91.00	7,158
NOx NonEGU + Area	Water Heater Replacement	7.00	N/A
NOx NonEGU + Area	Water Heater + LNB Space Heaters	7.00	1,624
NOx NonEGU + Area	Non-Selective Catalytic Reduction (NSCR)	N/A	N/A
NOx NonEGU + Area	Non-Selective Catalytic Reduction (NSCR)	90.00	452
NOx NonEGU + Area	Non-Selective Catalytic Reduction (NSCR)	90.00	452
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Low NOx Burner	50.00	753
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	45.00	1,492
NOx NonEGU + Area	Low NOx Burner	50.00	1,558
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,288
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	3,671
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	6,128

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NOx NonEGU + Area	Low NOx Burner	50.00	1,083
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,381
NOx NonEGU + Area	Oxygen Trim + Water Injection	65.00	898
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	2,945
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	5,111
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	55.00	4,213
NOx NonEGU + Area	Low NOx Burner	50.00	753
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	990
NOx NonEGU + Area	Low NOx Burner	50.00	1,083
NOx NonEGU + Area	Low NOx Burner + Flue Gas Recirculation	60.00	3,381
NOx NonEGU + Area	Oxygen Trim + Water Injection	65.00	898
NOx NonEGU + Area	Selective Catalytic Reduction (SCR)	80.00	2,945
NOx NonEGU + Area	Selective Non-Catalytic Reduction (SNCR)	50.00	5,111
NOx NonEGU + Area	Low NOx Burner	50.00	2,905
SOx EGU	Repowering to IGCC	N/A	N/A
SOx EGU	Coal Washing	40.00	348
SOx EGU	Flue Gas Desulfurization (Wet Scrubber Type)	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	In-duct Dry Sorbent Injection	40.00	1,526
SOx NonEGU_Point	Spray Dryer Absorber	90.00	1,341
SOx NonEGU_Point	Wet Flue Gas Desulfurization	90.00	N/A
SOx NonEGU_Point	Vacuum Carbonate Plus Sulfur Recovery Plant	82.00	N/A
SOx NonEGU_Point	Wet Flue Gas Desulfurization	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	In-duct Dry Sorbent Injection	40.00	N/A
SOx NonEGU_Point	Spray Dryer Absorber	90.00	N/A
SOx NonEGU_Point	Wet Flue Gas Desulfurization	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A

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SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Sulfuric Acid Plant	90.00	N/A
SOx NonEGU_Point	Dual absorption	99.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Wet Flue Gas Desulfurization	90.00	N/A
SOx NonEGU_Point	Flue Gas Desulfurization (FGD)	90.00	N/A
SOx NonEGU_Point	Amine Scrubbing	98.40	N/A
SOx NonEGU_Point	Sulfur Recovery and/or Tail Gas treatment	99.80	N/A
SOx NonEGU_Point	Amine Scrubbing	97.80	N/A
SOx NonEGU_Point	Sulfur Recovery and/or Tail Gas treatment	99.80	N/A
SOx NonEGU_Point	Sulfur Recovery and/or Tail Gas treatment	99.70	N/A
SOx NonEGU_Point	Amine Scrubbing	97.10	N/A
SOx NonEGU_Point	Sulfur Recovery and/or Tail Gas treatment	90.00	N/A
SOx NonEGU_Point	Sulfur Recovery and/or Tail Gas treatment	90.00	N/A
SOx NonEGU_Point	Increase % Conversion to Meet NSPS (99.7)	95.00	N/A
SOx NonEGU_Point	Increase % Conversion to Meet NSPS (99.7)	90.00	N/A
SOx NonEGU_Point	Increase % Conversion to Meet NSPS (99.7)	85.00	N/A
SOx NonEGU_Point	Increase % Conversion to Meet NSPS (99.7)	75.00	N/A
VOC All	Catalytic Oxidiser	83.00	2,852
VOC All	SCAQMD Rule 1168	73.00	2,908
VOC All	OTC Mobile Equipment Repair and Refinishing Rule	61.00	2,534
VOC All	South Coast Phase III	73.00	13,284
VOC All	OTC AIM Coating Rule	55.00	6,388

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VOC All	CARB BARCT Limits	47.00	990
VOC All	California FIP Rule (VOC content & TE)	89.00	9,508
VOC All	OTC Mobile Equipment Repair and Refinishing Rule	61.00	2,534
VOC All	Incineration >100,000 lbs bread	39.90	1,941
VOC All	OTC Solvent Cleaning Operations Rule	66.00	1,400
VOC All	CARB Mid-Term Limits	55.00	2,895
VOC All	CARB Long-Term Limits	85.00	3,803
VOC All	OTC Consumer Products Rule	39.20	1,032
VOC All	OTC Consumer Products Rule	39.20	1,032
VOC All	Federal Consumer Solvents Rule	25.00	306
VOC All	CARB Mid-Term Limits	55.00	2,895
VOC All	CARB Long-Term Limits	85.00	3,803
VOC All	Switch to Emulsified Asphalts	100.00	20
VOC All	SCAQMD Rule	70.00	7,892
VOC All	Permanent Total Enclosure (PTE)	N/A	1,459
VOC All	Permanent Total Enclosure (PTE)	N/A	12,477
VOC All	Use of Low or No VOC Materials	65.00	5,206
VOC All	Federal Reformulated Gasoline (RFG)	7.65	27,254
VOC All	Low Reid Vapor Pressure (RVP) Limit in Ozone Season	5.50	1,681
VOC All	South Coast Phase I	34.00	1,906
VOC All	South Coast Phase II	47.00	5,305
VOC All	South Coast Phase III	73.00	13,284
VOC All	SCAQMD Limits	55.20	2,677
VOC All	OTC Mobile Equipment Repair and Refinishing Rule	61.00	2,534
VOC All	OTC Mobile Equipment Repair and Refinishing Rule	61.00	2,534
VOC All	Add-On Controls	90.00	11,802
VOC All	SCAQMD Limits	55.20	2,677
VOC All	Permanent Total Enclosure (PTE)	N/A	7,947
VOC All	BAAQMD Rule 11 Amended	42.00	2,650
VOC All	Incineration	90.00	11,802
VOC All	Permanent Total Enclosure (PTE)	N/A	20,115
VOC All	Incineration	90.00	11,802
VOC All	Gas Collection (SCAQMD/BAAQMD)	70.00	901
VOC All	Equipment and Maintenance	37.00	419
VOC All	SCAQMD 1122 (VOC content limit)	76.00	1,648
VOC All	Airtight Degreasing System	98.00	12,928
VOC All	Permanent Total Enclosure (PTE)	N/A	1,565

Appendix D: Response Surface Model Control Measures

VOC All	Reformulation - FIP Rule	20.00	12,282
VOC All	OTC Portable Gas Container Rule	33.00	581
VOC All	Permanent Total Enclosure (PTE)	N/A	16,018
VOC All	SCAQMD - Low VOC	60.00	1,347
VOC All	Low Pressure/Vacuum Relief Valve	91.60	1,433
VOC All	Low Pressure/Vacuum Relief Valve	73.00	1,433
VOC All	South Coast Phase I	34.00	1,906
VOC All	South Coast Phase II	47.00	5,305
VOC All	South Coast Phase III	73.00	13,284
VOC All	New CTG	47.00	1,277
VOC All	Add-On Controls	75.00	26,412
VOC All	SCAQMD Rule 1104	53.00	1,163
VOC All	Incineration	86.00	4,202
NH3 Area	Chemical Additives to Waste	50.00	73
NH3 Area	Chemical Additives to Waste	75.00	1,014
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737

Appendix D: Response Surface Model Control Measures

POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	93.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.52	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Impingement-Plate Scrubber	64.00	506
POC_PEC EGU + NonEGU	Venturi Scrubber	94.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565

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POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	73.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	73.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	82.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	7.70	4,737
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565

Appendix D: Response Surface Model Control Measures

POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Venturi Scrubber	92.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	93.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	99.00	882
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
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POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
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POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Paper/Nonwoven Filters - Cartridge Collector Type	99.00	148
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Venturi Scrubber	95.00	882
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.00	131
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Increased Monitoring Frequency (IMF) of PM Control	6.50	565
POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737

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POC_PEC EGU + NonEGU	CEM Upgrade and Increased Monitoring Frequency of PM Controls	7.70	4,737
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POC_PEC EGU + NonEGU	Fabric Filter (Mech. Shaker Type)	99.50	131
POC_PEC EGU + NonEGU	Fabric Filter (Pulse Jet Type)	99.00	122
POC_PEC EGU + NonEGU	Fabric Filter (Reverse-Air Cleaned Type)	99.00	154
POC_PEC EGU + NonEGU	Fabric Filter	95.00	N/A
POC_PEC EGU + NonEGU	Fabric Filter	95.00	N/A
POC_PEC EGU + NonEGU	Dry ESP-Wire Plate Type	98.00	129
POC_PEC EGU + NonEGU	Wet ESP - Wire Plate Type	99.00	258
POC_PEC EGU + NonEGU	Coal Washing	N/A	N/A
POC_PEC Area	Catalytic Oxidiser	83.00	2,852
POC_PEC Area	NSPS Compliant Woodstove	98.00	2,000
POC_PEC Area	Education and Advisory Program	50.00	1,743