

Emission Calculations

Caithness Long Island II, LLC
2 GE 207FA.05 Combined Cycle Combustion Turbines

Total Proposed Equipment Potential-to-Emit (PTE) Summary

Source	Potential Annual Emissions (tons/yr)											
	NO _x	CO	VOC	SO ₂	PM-10	PM-2.5	H ₂ SO ₄	CO2e	NH ₃	Pb	Maximum Individual HAP	Total HAPs
Combined Cycle Units Steady-State Basis	191.0	97.6	62.0	19.9	142.0	142.0	13.7	2,646,713	147.4	2.6E-02		
Combined Cycle Units Start-Up/Shutdown ⁽¹⁾	0.2	135.9	10.5		0.0	0.0						
Auxiliary Boiler	3.1	6.0	0.8	0.1	0.7	0.7	0.008	21,932		2.0E-04		
Diesel Generators	4.9	2.9	0.4	1.01E-03	1.65E-01	1.65E-01	1.01E-04	746		0.0E+00		
Fire Pump	0.3	0.2	0.03	6.93E-05	1.68E-02	1.68E-02	6.93E-06	51		0.0E+00		
ULSD Storage Tank			0.38									
Total Project PTE	194.2	239.6	73.3	20.0	142.7	142.7	13.7	2,668,644	147.4	2.6E-02	2.8	11.0

Notes:
(1) Combined cycle unit start-up/shutdown emissions are added to the baseline steady-state PTE values if the total start-up/shutdown emissions are more than the steady-state full load equivalent during the period of unit off-line downtime and duration of the start-up (and previous shutdown). For start-up/shutdown emissions noted above as "N/A" for certain pollutants, the start-up/shutdown emissions addition to the baseline steady-state PTE is not applicable since mass emissions of these pollutants are fuel input based (lb/MMBtu) and the full load, steady-state basis represents the worst-case scenario for PTE emissions.

Caithness II
2 GE 7FA Combined Cycle Combustion Turbines
Natural Gas and Oil Firing Design Scenarios

[illegible]

Constants	Units	Value
Fuel Heating Values		
Heating Gas HHV	Btu/Gal	1,815
ULSD Fuel Oil HHV	Btu/Gal	135,318
Fuel Sulfur Content		
Natural Gas Sulfur Content	grains/100 SCF	0.25
ULSD Fuel Oil Sulfur Content	ppm by weight	15
Duct Burner Capacity Rating		
Minimum Heat Input Rating	MMBtu/hr (HV)	568.81
SG, or SG Conversion Rate		
GHG 40 CFR 98 Emissions Factors (natural gas)		
CO ₂	2,438.04	lb/MMBtu
CH ₄	2,438.04	lb/MMBtu
GHG 40 CFR 98 Emissions Factors (distillate oil)		
CO ₂	1,464.03	lb/MMBtu
CH ₄	7,296.03	lb/MMBtu
GHG Global Warming Potentials		
CO ₂	1	
SG, or SG Conversion Rate	310	
Molecular Weights		
CO ₂	lb/mole	44
CH ₄	lb/mole	16
H ₂ O	lb/mole	18
NO _x (as NO ₂)	lb/mole	46
NO _x (as NO)	lb/mole	30
SO ₂ (as SO ₂)	lb/mole	64
SO ₂ (as S)	lb/mole	32
SO ₂ (as SO)	lb/mole	60
H ₂ SO ₄	lb/mole	98
NH ₃	lb/mole	17
Ammonium Sulfate ((NH ₄) ₂ SO ₄)	lb/mole	132
Ammonium Bisulfate (NH ₄ HSO ₄)	lb/mole	115

Caithness II
2 GE 7FA Combined Cycle Combustion Turbines

Net PTE Increase Analysis for Start-Up/Shutdown Periods

CC Units Off-Line Period Durations:						
	Natural Gas-Rapid		Natural Gas-Conventional		Oil-Conventional	
Cold	72	hrs (minimum)	72	hrs (minimum)	72	hrs (minimum)
Warm	24	hrs (minimum)	24	hrs (minimum)	24	hrs (minimum)
Hot	4	hrs (minimum)	4	hrs (minimum)	4	hrs (minimum)
Start-Up Event Durations:						
Cold	1.0	hrs	4.6	hrs	4.6	hrs
Warm	0.8	hrs	2.5	hrs	2.8	hrs
Hot	0.5	hrs	1.3	hrs	0.8	hrs
Shutdown Event Duration:			0.3	hrs	0.3	hrs
No. of Start-Up/Shutdown Events:						
Cold	10		2		2	
Warm	52		3		3	
Hot	260		5		5	

Natural Gas-Rapid

	Units	Sample Calc	Cold S/U Scenario				Warm S/U Scenario				Hot S/U Scenario			
			NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5
PTE Baseline Emission Rate - 2 Units	lbs/hr	(1)	30.8	18.8	5.4	20.6	30.8	18.8	5.4	20.6	30.8	18.8	5.4	20.6
PTE 'Reduction' for Off-Line Period	lbs/event	(2)	2,263.3	1,378.5	393.9	1,513.8	777.2	473.4	135.3	519.8	153.5	93.5	26.7	102.7
Start-Up Emissions - 2 Units	lbs/event	(3)	236.0	662.0	62.0	15.4	156.0	362.0	42.0	11.6	96.0	344.0	38.0	7.8
Shutdown Emissions - 2 Units	lbs/event	(4)	22.0	314.0	64.0	7.4	22.0	314.0	64.0	7.4	22.0	314.0	64.0	7.4
SU/SD Event Total Emissions	lbs/event	(5)	258.0	976.0	126.0	22.8	178.0	676.0	106.0	19.0	118.0	658.0	102.0	15.2
PTE 'Increase' per SU/SD Event	tons/event	(6)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0
Total Annual PTE 'Increase'	tons/yr	(7)	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	73.4	9.8	0.0

Natural Gas-Conventional

	Units	Sample Calc	Cold S/U Scenario				Warm S/U Scenario				Hot S/U Scenario			
			NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5
PTE Baseline Emission Rate - 2 Units	lbs/hr	(1)	30.8	18.8	5.4	20.6	30.8	18.8	5.4	20.6	30.8	18.8	5.4	20.6
PTE 'Reduction' for Off-Line Period	lbs/event	(2)	2,368.0	1,442.3	412.1	1,583.8	823.4	582.5	166.4	639.6	171.5	104.4	29.8	114.7
Start-Up Emissions - 2 Units	lbs/event	(3)	565.0	3,281.0	480.0	89.0	379.0	1,445.0	182.0	46.0	219.0	1,771.0	152.0	21.8
Shutdown Emissions - 2 Units	lbs/event	(4)	16.0	330.0	56.0	5.0	16.0	330.0	56.0	5.0	16.0	330.0	56.0	5.0
SU/SD Event Total Emissions	lbs/event	(5)	581.0	3,611.0	536.0	94.0	395.0	1,775.0	238.0	51.0	235.0	2,101.0	208.0	26.8
PTE 'Increase' per SU/SD Event	tons/event	(6)	0.0	1.1	0.1	0.0	0.0	0.6	0.0	0.0	0.0	1.0	0.1	0.0
Total Annual PTE 'Increase'	tons/yr	(7)	0.0	2.2	0.1	0.0	0.0	1.8	0.1	0.0	0.2	5.0	0.4	0.0

Oil - Conventional

	Units	Sample Calc	Cold S/U Scenario				Warm S/U Scenario				Hot S/U Scenario			
			NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5	NO _x	CO	VOC	PM-10/PM-2.5
PTE Baseline Emission Rate - 2 Units	lbs/hr	(1)	105.4	21.4	16.0	48.0	105.4	21.4	16.0	48.0	105.4	21.4	16.0	48.0
PTE 'Reduction' for Off-Line Period	lbs/event	(2)	8,103.5	1,645.3	1,228.6	3,690.4	2,856.3	579.9	433.1	1,300.8	537.5	109.1	81.5	244.8
Start-Up Emissions - 2 Units	lbs/event	(3)	1,821.0	45,760.0	74.0	324.0	1,521.0	1,738.0	12.1	193.0	346.0	429.0	7.5	134.0
Shutdown Emissions - 2 Units	lbs/event	(4)	56.0	336.0	18.6	20.0	56.0	336.0	18.6	20.0	56.0	336.0	18.6	20.0
SU/SD Event Total Emissions	lbs/event	(5)	1,877.0	46,096.0	92.6	344.0	1,577.0	2,074.0	30.7	213.0	402.0	765.0	26.1	154.0
PTE 'Increase' per SU/SD Event	tons/event	(6)	0.0	22.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.0	0.0
Total Annual PTE 'Increase'	tons/yr	(7)	0.0	44.5	0.0	0.0	0.0	2.2	0.0	0.0	0.0	1.6	0.0	0.0

- (1) - Steady-State PTE Emission Rate = PTE per Unit (tons/yr) * 2,000 lbs/ton * yr/Max Unit hrs * No. of Units
(2) - PTE 'Reduction' for Off-Line Period = (1) * (Shutdown Duration + Off-Line Duration + Start-Up Duration)
(3) - Start-Up Emissions per Unit provided by vendor
(4) - Shutdown Emissions per Unit provided by vendor
(5) - SU/SD Event Total Emissions = ((3)+(4)) * No. of Units
(6) - PTE 'Increase per SU/SD Event = zero if (5)-(2) <= 0; or ((5)-(2)) * ton/2,000 lbs if (5)-(2) > 0
(7) - Total Annual PTE 'Increase' = (6) * No. of Events per Year per Start-Up Type

Caithness II

Auxiliary Boiler Potential Emissions Summary

Engine parameters

Heat Input Capacity (HHV)	69.3	MMBtu/hr
Fuel Firing Rate	68,276	SCF/hr
	327.7	mmscf/yr
Maximum Annual Operation	4,800	hr/yr
Maximum Oil Fired Operation	400	hr/yr

Pollutant	Potential Emissions						Annual (ton/yr)
	Gas Firing			Oil Firing			
	lb/MMBtu	lb/hr	g/s	lb/MMBtu	lb/hr	g/s	
NO _x	0.0110	0.76	0.10	0.1000	6.93	0.87	3.06
CO	0.0360	2.49	0.31	0.0390	2.70	0.34	6.03
VOC	0.0054	0.37	0.05	0.0014	0.10	0.01	0.84
PM-10/PM-2.5	0.0033	0.23	0.03	0.0150	1.04	0.13	0.71
SO ₂	7.0E-04	0.048	0.006	0.0002	0.015	0.002	0.11
H ₂ SO ₄	5.3E-05	0.004	0.0005	1.7E-05	0.001	0.0001	0.01
CO ₂	1.3E+02	8929	1125	163	11299.62	1423.75	21,904
CH ₄	2.4E-03	0.168	0.021	0.007	0.51	0.06	0.47
N ₂ O	2.4E-04	0.017	0.002	0.001	0.10	0.01	0.06
CO ₂ e							21,932

(1) NO_x, CO and PM-10/PM-2.5 emissions from CLIEC I. VOC emissions from AP-42.

(2) GHG emissions are based on 40 CFR Part 98, Subpart C.

(3) Emissions of SO₂ from based on mass balance of sulfur in fuel:

Gas Sulfur Content (maximum)	0.25	grains/100 SCF
Higher Heating Value (gas)	1,015	Btu/SCF
ULSD Sulfur Content (maximum)	15	ppm by weight
Higher Heating Value (ULSD)	135,318	Btu/gal
Molecular Weight of S =	32	lb/lbmol
Molecular Weight of SO ₂ =	64	lb/lbmol

(4) Based on stack temperature, H₂SO₄ may form from the conversion of SO₂ to SO₃ (assumed 5% conversion).

Molecular Weight of H₂SO₄ = 98 lb/lbmol

Fire Water Pump Diesel Engine Potential Emissions Summary

Engine parameters

Power output base load	305	hp
Heat Input Capacity (HHV)	2.5	MMBtu/hr
Annual fuel usage	4618.7	gal/yr
Maximum Annual Operation	250	hr/yr

Pollutant	Potential Emissions				
	g/bhp-hr	lb/MMBtu	lb/hr	g/s	Total Annual (ton/yr)
NO _x	3.70	0.9951	2.49	0.31	3.11E-01
CO	2.60	0.6993	1.75	0.220	2.19E-01
VOC	0.30	0.0807	0.20	0.025	2.52E-02
PM-10/PM-2.5	0.20	0.0538	0.13	0.017	1.68E-02
SO ₂	0.001	0.0002	0.001	0.0001	6.93E-05
H ₂ SO ₄		2.2E-05	5.54E-05	6.98E-06	6.93E-06
CO ₂		163	408	51.36	51
N ₂ O		1.46E-03	3.65E-03	4.59E-04	4.56E-04
CH ₄		7.29E-03	1.82E-02	2.30E-03	2.28E-03
CO ₂ e					51

Notes:

(1) NO_x, VOC, CO and PM-10/PM-2.5 emissions are based upon emission limits identified in NSPS Subpart IIII.

TSP emissions based on TSP/PM-10 emission factor ratio in AP-42.

To determine individual limits for NO_x and VOC, Tier 3 limit for NO_x+HC was apportioned using AP-42 emission factor ratios.

(2) GHG emissions from 40 CFR Part 98, Appendix C

(3) Emissions of SO₂ from based on mass balance of sulfur in fuel:

Sulfur Content	15	ppm by weight
Higher Heating Value	135,318	Btu/gal
Molecular Weight of S =	32	lb/lbmol
Molecular Weight of SO ₂ =	64	lb/lbmol

(4) Based on stack temperature, H₂SO₄ may form from the conversion of SO₂ to SO₃ (assumed 5% conversion).

Molecular Weight of H₂SO₄ = 98 lb/lbmol

(5) Unit will operate only during emergency situations and for limited periods per week for testing/maintenance purposes. Total annual operation due to testing/maintenance is limited to 100 hours per year.

Stack Parameters		
Exhaust Temperature	1057	degrees F
Exit Velocity	363.0	ft/s
	110.6	m/s
Stack Inner Diameter	4.0	in
	0.3	ft
	0.10	m
Stack Height AG	20	ft

Conversion Factors	
g/lb	453.6
lb/ton	2,000

Diesel Generator Potential Emissions Summary

Engine parameters

Number of Units	2	
Power output base load	1,500	kW
	2010	hp
Heat Input Capacity (HHV)	18.2	MMBtu/hr
	33679.8	gal/yr
Displacement per Cylinder	<10	Liters
Maximum Annual Operation	250	hr/yr

Pollutant	Potential Emissions (Per Unit)					Total 2 Unit PTE (tons/yr)
	g/kWh	lb/MMBtu	lb/hr	g/s	Annual (ton/yr)	
NO _x	5.92	1.0739	19.58	2.47	2.45	4.89
CO	3.50	0.6349	11.57	1.46	1.45E+00	2.89
VOC	0.48	0.0871	1.59	0.20	1.98E-01	0.40
PM-10/PM-2.5	0.200	0.0363	0.66	0.08	8.27E-02	0.17
SO ₂		2.22E-04	4.04E-03	5.09E-04	5.05E-04	1.01E-03
H ₂ SO ₄		2.2E-05	4.04E-04	5.09E-05	5.05E-05	1.01E-04
CO ₂		163	2,972.47	374.53	371.56	743.12
N ₂ O		1.46E-03	0.03	0.003	0.00	0.01
CH ₄		7.29E-03	0.13	0.02	0.02	0.03
CO ₂ e					372.94	745.87

Notes:

(1) NO_x, CO, VOC and PM emissions are based on NSPS Subpart IIII

To determine individual limits for NO_x and VOC, Tier 2 limit for NO_x+HC was apportioned using AP-42 emission factor ratios.

(2) GHG emissions from 40 CFR Part 98, Appendix C

(3) Emissions of SO₂ from based on mass balance of sulfur in fuel:

Sulfur Content	15	ppm by weight
Higher Heating Value	135,318	Btu/gal
Molecular Weight of S =	32	lb/lbmol
Molecular Weight of SO ₂ =	64	lb/lbmol

(4) Based on stack temperature, H₂SO₄ may form from the conversion of SO₂ to SO₃ (assumed 5% conversion).

Molecular Weight of H ₂ SO ₄ =	98	lb/lbmol
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Stack Parameters		
Exhaust Temperature	865.0	degrees F
Exit Velocity	447.3	ft/s
	136.3	m/s
Stack Inner Diameter	16.0	in
	1.3	ft
	0.41	m
Stack Height AG	15	ft

Conversion Factors	
g/lb	453.6
lb/ton	2,000

Non-Criteria Pollutant Emissions

Equipment Parameters:	Heat Input (mmBtu/hr)	Operation (hrs/year)	Number of Units
Combustion Turbine (gas firing)	2,232	8,760	2
Combustion Turbine (oil firing)	2,353	720	2
Duct Burner	569	8,760	2
Auxiliary Boiler (gas firing)	69.3	4,800	1
Auxiliary Boiler (oil firing)	69.3	400	1
Emergency Diesel Generators	18.2	250	2
Diesel Fire Pump	2.5	250	1

Fuel Properties:

Natural Gas Heat Content	1,015	Btu/scf
Natural Gas Sulfur Content	0.25	gr/100scf
Distillate Oil Heat Content	135	mmBtu/10 ³ gal
Distillate Oil Density	7.1	lb/gal
Distillate Oil Sulfur Content	0.0015%	weight %

Emission Factors & Emissions:

Non-Criteria Pollutants	Note	NYSDEC SGC (ug/m3)	NYSDEC AGC (ug/m3)	Combustion Turbine (1)						Duct Burner ⁽²⁾				Auxiliary Boiler ⁽²⁾								Diesel Fire Pump ⁽³⁾			Emergency Diesel Generators ⁽³⁾			Total Project Potential Emissions		
				Gas Firing			Oil Firing			Gas Firing				Gas Firing				Oil Firing				Oil Firing			Oil Firing					
				Emission Factor	Emission Rate		Emission Factor	Emission Rate		Emission Factor		Emission Rate		Emission Factor		Emission Rate		Emission Factor		Emission Rate		Emission Factor		Emission Rate		Emission Factor			Emission Rate	
				(lb/mmBtu)	(lb/hr)	(g/s)	(lb/mmBtu)	(lb/hr)	(g/s)	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(lb/mmscf)	(lb/mmBtu)	(lb/hr)	(g/s)	(lb/10 ³ gal)	(lb/mmBtu)	(lb/hr)	(g/s)	(lb/10 ³ gal)	(lb/mmBtu)		(lb/hr)	(g/s)
1,3-Butadiene	a	---	3.30E-02	4.30E-07	9.60E-04	1.21E-04	1.60E-05	3.76E-02	4.74E-03									2.36E-04	1.74E-06	1.21E-04	1.52E-05	3.91E-05	9.78E-05	1.23E-05	3.91E-05	7.13E-04	8.98E-05	3.48E-02		
1,1,1-Trichloroethane	a	---	1.4																										2.42E-05	
2-Methylnaphthalene		---	7.1																										1.22E-04	
3-Methylchloranthrene	b									2.40E-05	2.36E-08	1.34E-05	1.69E-06	2.40E-05	2.36E-08	1.64E-06	2.06E-07												9.13E-06	
7,12-Dimethylbenz(a)anthracene	b									1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08												8.12E-05	
Acenaphthene	b									1.60E-05	1.58E-08	8.97E-06	1.13E-06	1.60E-05	1.58E-08	1.09E-06	1.38E-07												1.17E-05	
Acenaphthylene	b									1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08	2.11E-05	1.56E-07	1.08E-05	1.36E-06	1.42E-06	3.55E-06	4.47E-07	1.42E-06	2.59E-05	3.26E-06	1.08E-05		
Acetaldehyde	a	4500	4.50E-01	4.00E-05	8.93E-02	1.12E-02				9.00E-04	8.87E-07	5.04E-04	6.35E-05	3.10E-03	3.05E-06	2.12E-04	2.67E-05					5.06E-06	1.27E-05	1.59E-06	5.06E-06	9.22E-05	1.16E-05	1.08E-05		
Acrolein	a	2.5	3.50E-01	6.40E-06	1.43E-02	1.80E-03				8.00E-04	7.88E-07	4.48E-04	5.65E-05	2.70E-03	2.66E-06	1.84E-04	2.32E-05					7.67E-04	1.92E-03	2.42E-04	7.67E-04	1.40E-02	1.76E-03	7.87E-01		
Ammonia		2400	100					20.1	2.53E+00	included in combined cycle emissions estimates												9.25E-05	2.31E-04	2.91E-05	9.25E-05	1.69E-03	2.12E-04	1.30E-01		
Anthracene	b	---	2.00E-02							2.40E-06	2.36E-09	1.34E-06	1.69E-07	2.40E-06	2.36E-09	1.64E-07	2.06E-08	1.22E-06	9.02E-09	6.25E-07	7.87E-08	1.87E-06	4.68E-06	5.89E-07	1.87E-06	3.41E-05	4.30E-06	1.29E-05		
Arsenic	a	---	2.30E-04				1.10E-05	2.59E-02	3.26E-03	2.00E-04	1.97E-07	1.12E-04	1.41E-05	2.00E-04	1.97E-07	1.37E-05	1.72E-06	5.41E-04	4.00E-06	2.77E-04	3.49E-05							1.97E-02		
Barium		---	5.00E-01							4.40E-03	4.33E-06	2.47E-03	3.11E-04	4.40E-03	4.33E-06	3.00E-04	3.79E-05											2.23E-02		
Benz(a)anthracene	b	---	2.00E-02							1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08	4.01E-06	2.96E-08	2.05E-06	2.59E-07	1.68E-06	4.20E-06	5.29E-07	1.68E-06	3.06E-05	3.86E-06	1.01E-05		
Benzene	a	1300	1.30E-01	1.20E-05	2.68E-02	3.37E-03	5.50E-05	1.29E-01	1.63E-02	1.70E-03	1.67E-06	9.53E-04	1.20E-04	5.80E-03	5.71E-06	3.96E-04	4.99E-05	2.14E-04	1.58E-06	1.10E-04	1.38E-05	9.33E-04	2.33E-03	2.94E-04	9.33E-04	1.70E-02	2.14E-03	3.18E-01		
Benzo(a)pyrene	b	---	9.10E-04							1.20E-06	1.18E-09	6.72E-07	8.47E-08	1.20E-06	1.18E-09	8.19E-08	1.03E-08					1.88E-07	4.70E-07	5.92E-08	1.88E-07	3.43E-06	4.32E-07	6.15E-06		
Benzo(b)fluoranthene	b									1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08					9.91E-08	2.48E-07	3.12E-08	9.91E-08	1.81E-06	2.28E-07	9.16E-06		
Benzo(b,k)fluoranthene	b									1.20E-06	1.18E-09	6.72E-07	8.47E-08	1.20E-06	1.18E-09	8.19E-08	1.03E-08	1.48E-06	1.09E-08	7.58E-07	9.55E-08							1.52E-07		
Benzo(g,h,i)perylene	b									1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08	2.26E-06	1.67E-08	1.16E-06	1.46E-07	4.89E-07	1.22E-06	1.54E-07	4.89E-07	8.91E-06	1.12E-06	6.46E-06		
Benzo(k)fluoranthene	b									1.20E-06	1.18E-09	6.72E-07	8.47E-08	1.20E-06	1.18E-09	8.19E-08	1.03E-08	1.55E-07	3.88E-07	4.88E-08	1.55E-07	3.88E-07	4.88E-08	1.55E-07	2.83E-06	3.56E-07	9.18E-06			
Beryllium	a	---	4.20E-04				3.10E-07	7.29E-04	9.19E-05	1.20E-05	1.18E-08	6.72E-06	8.47E-07	1.20E-05	1.18E-08	8.19E-07	1.03E-07	4.06E-04	3.00E-06	2.08E-04	2.62E-05							6.27E-04		
Butane		---	57000							2.10E+00	2.07E-03	1.18E+00	1.48E-01	2.10E+00	2.07E-03	1.43E-01	1.81E-02											1.07E+01		
Cadmium	a	---	2.40E-04				4.80E-06	1.13E-02	1.42E-03	1.10E-03	1.08E-06	6.16E-04	7.77E-05	1.10E-03	1.08E-06	7.51E-05	9.46E-06	4.06E-04	3.00E-06	2.08E-04	2.62E-05							1.37E-02		
Chromium	a	---	45				1.10E-05	2.59E-02	3.26E-03	1.40E-03	1.38E-06	7.85E-04	9.89E-05	1.40E-03	1.38E-06	9.56E-05	1.20E-05	4.06E-04	3.00E-06	2.08E-04	2.62E-05							2.58E-02		
Chrysene	b	---	2.00E-02							1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08	2.38E-06	1.76E-08	1.22E-06	1.54E-07	3.53E-07	8.83E-07	1.11E-07	3.53E-07	6.44E-06	8.11E-07	9.47E-06		
Cobalt	a	---	1.00E-03							8.40E-05	8.28E-08	4.71E-05	5.93E-06	8.40E-05	8.28E-08	5.74E-06	7.23E-07											4.26E-04		
Copper		100	2.00E-02							8.50E-04	8.37E-07	4.76E-04	6.00E-05	8.50E-04	8.37E-07	5.80E-05	7.31E-06	8.12E-04	6.00E-06	4.16E-04	5.24E-05							4.38E-03		
Dibenzo(a,h)anthracene	b	---	2.00E-02							1.20E-06	1.18E-09	6.72E-07	8.47E-08	1.20E-06	1.18E-09	8.19E-08	1.03E-08	1.67E-06	1.23E-08	8.55E-07	1.08E-07	5.83E-07	1.46E-06	1.84E-07	5.83E-07	1.06E-05	1.34E-06	6.44E-06		
Dichlorobenzene	a	---	9.00E-02							1.20E-03	1.18E-06	6.72E-04	8.47E-05	1.20E-03	1.18E-06	8.19E-05	1.03E-05	1.67E-06	1.23E-08	8.55E-07	1.08E-07	5.83E-07	1.46E-06	1.84E-07	5.83E-07	1.06E-05	1.34E-06	6.44E-06		
Ethane		---	2900							3.10E+00	3.05E-03	1.74E+00	2.19E-01	3.10E+00	3.05E-03	2.12E-01	2.67E-02											6.09E-03		
Ethylbenzene	a	54000	1000	3.20E-05	7.14E-02	9.00E-03				2.00E-03	1.97E-06	1.12E-03	1.41E-04	6.90E-03	6.80E-06	4.71E-04	5.94E-05	6.36E-05	4.70E-07	3.26E-05	4.10E-06							1.57E+01		
Fluoranthene	b									3.00E-06	2.96E-09	1.68E-06	2.12E-07	3.00E-06	2.96E-09	2.05E-07	2.58E-08	4.84E-06	3.58E-08	2.48E-06	3.12E-07	7.61E-06	1.90E-05	2.40E-06	7.61E-06	1.39E-04	1.75E-05	6.37E-01		
Fluorene	b									2.80E-06	2.76E-09	1.57E-06	1.98E-07	2.80E-06	2.76E-09	1.91E-07	2.41E-08	4.47E-06	3.30E-08	2.29E-06	2.88E-07	2.92E-05	7.30E-05	9.20E-06	2.92E-05	5.32E-04	6.71E-05	1.82E-05		
Formaldehyde	a	30	6.00E-02	1.30E-04	2.90E-01	3.66E-02	2.80E-04	6.59E-01	8.30E-02	3.60E-03	3.55E-06	2.02E-03	2.54E-04	1.23E-02	1.21E-05	8.40E-04	1.06E-04	6.10E-02	4.51E-04	3.12E-02	3.94E-03	1.18E-03	2.95E-03	3.72E-04	1.18E-03	2.15E-02	2.71E-03	2.83E+00		
Hexane	a	---	700							1.30E-03	1.28E-06	7.29E-04	9.18E-05	2.60E-04	2.56E-07	1.78E-05	2.24E-06	4.06E-04	3.00E-06	2.08E-04	2.62E-05							3.39E-03		
Indeno(1,2,3-cd)pyrene	b									1.80E-06	1.77E-09	1.01E-06	1.27E-07	1.80E-06	1.77E-09	1.23E-07	1.55E-08	2.14E-06	1.58E-08	1.10E-06	1.38E-07	3.75E-07	9.38E-07	1.18E-07	3.75E-07	6.84E-06	8.61E-07	9.45E-06		
Lead	a	---	3.80E-02				1.40E-05	3.29E-02	4.15E-03	5.00E-04	4.93E-07	2.80E-04	3.53E-05	5.00E-04	4.93E-07	3.41E-05	4.30E-06	1.22E-03	9.00E-06	6.24E-04	7.86E-05							2.64E-02		
Manganese	a	---	5.00E-02				7.90E-04	1.86E+00	2.34E-01	3.80E-04	3.74E-07	2.13E-04	2.68E-05	3.80E-04	3.74E-07	2.59E-05	3.27E-06	8.12E-04	6.00E-06	4.16E-04	5.24E-05									

**RACT/BACT/LAER
CLEARINGHOUSE
DATABASE SEARCH
RESULTS**

Appendix G

Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW

Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
CARTY PLANT	MORROW, OR	12/29/2010	NO	COMBINED CYCLE NATURAL GAS FIRED ELEC GEN UNIT	2,866	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
KING POWER STATION	HARRIS, TX	8/5/2010	NO	TURBINE	2,700	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
THOMAS C. FERGUSON POWER PLANT	LLANO, TX	9/1/2011	NO	(2) GE 7FA COMBUSTION TURBINES	1,560	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,676	SCR	2.0	BACT/LAER
FPL WEST COUNTY ENERGY CENTER UNIT 3	PALM BEACH COUNTY, FL	7/30/2008	?	(3) NOMINAL 250 MW CTG (EACH) W/ DUCT BURNER	2,333	SCR	2.0	BACT/LAER
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 W/ DB	2,142	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
CANE ISLAND POWER PARK	OSCEOLA, FL	9/8/2008	?	300 MW COMBINED CYCLE COMBUSTION TURBINE	1,860	SCR	2.0	BACT/LAER
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	COMBUSTION TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,375	DLN AND SCR	2.0	BACT/LAER
PATTILLO BRANCH POWER PLANT	FANNIN, TX	6/17/2009	?	ELECTRICITY GENERATION	2,800	SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
NATURAL GAS-FIRED POWER GENERATION FACILITY	LAMAR, TX	6/22/2009	?	ELECTRICITY GENERATION	2,000	SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
MADISON BELL ENERGY CENTER	MADISON, TX	8/18/2009	?	ELECTRICITY GENERATION	2,200	SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
VEPCO WARREN COUNTY FACILITY	WARREN, VA	1/14/2008	?	ELECTRIC GENERATION - SCENARIO 1	1,717	2 STAGE PREMIX NOX COMBUSTION AND SCR	2.0	BACT/LAER
				ELECTRIC GENERATION - SCENARIO 2	1,944	GCP, 2 STAGE LEAN PREMIX AND SCR.	2.0	BACT/LAER
				ELECTRIC GENERATION SECNARIO 3	2,204	2 STAGE LEAN PREMIX, GCP AND SCR	2.0	BACT/LAER
CHOUTEAU POWER PLANT	MAYES, OK	1/23/2009	?	COMBINED CYCLE COGENERATION	1,882	SCR AND DRY LOW-NOX	2.0	BACT/LAER
CPV WARREN, LLC	FRONT ROYAL, VA	7/30/2004	NO	(2) COMBINED CYCLE TURBINES, GE 7FA	1,717	DLN, SCR AND GCP	2.0	BACT
FP&L TURKEY POINT FOSSIL PLANT - UNIT 5	HOMESTEAD, FL	6/1/2004	NO	(4) TURBINE W/ DB, W/ POWER AUG, &/OR CT ONLY	2,103	SCR WITH DLN	2.0	BACT-OTHER
VINEYARD ENERGY CENTER, LLC	VINEYARD, UT	5/11/2004	NO	(3) SWPC 501F COMBUSTION TURBINES	1,738	DLN AND SCR	2.0	BACT
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	NO	(2) COMBINED CYCLE TURBINES	2,160	DLN AND SCR	2.0	LAER
KEYSPAN SPAGNOLI ROAD ENERGY CENTER	MELVILLE, NY	4/30/2003	NO	(1) COMBINED CYCLE COMBUSTION TURBINE	1,788	DLN AND SCR	2.0	OTHER
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	SCR AND DLN	2.0	LAER
BROOKHAVEN ENERGY, LP	YAPHANK, NY	7/18/2002	NO	(4) COMBINED CYCLE TURBINES, 75%-100%	1,897	SCR	2.0	OTHER
NYPA POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO	(2) COMBINED CYCLE TURBINES	1,779	DLN AND SCR	2.0	LAER
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	DLN AND SCR	2.0	LAER
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	?	(2) COMBUSTION TURBINE W/ DUCT BURNER	2,480	LOW-NOx COMBUSTORS	2.0	BACT-OTHER
GILA BEND POWER GENERATING STATION	ARIZONA	5/15/2002	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	SCR AND LOW NOX COMBUSTORS	2.0	BACT-PSD
SALT RIVER PROJECT/SANTAN GEN. PLANT	PHOENIX, AZ	3/7/2003	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,400	SCR	2.0	LAER
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	?	(2) TURBINE, COMBINED CYCLE W/ AND W/O DUCT BURNER	1,955	SCR	2.0	BACT-PSD
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,706	LNB, WATER INJECTION AND SCR	2.0	BACT
SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO, CA	9/1/2003	?	(2) GAS TURBINES	1,611	SCR	2.0	LAER
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3	2,181	LNB AND SCR	2.0	BACT
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	YES	(2) TURBINE, COMBUSTION ABB GT-24 #1 WITH 2 CHILLERS	1,965	SCR WITH AMMONIA INJECTION	2.0	LAER
TRANS GAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	SCR	2.0	LAER
CABOT POWER CORPORATION	EVERETT, MA	5/7/2000	?	TURBINE, COMBINED CYCLE	2,493	SCR, DLN COMBUSTORS	2.0	LAER
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	YES	(2) TURBINE, COMBINED CYCLE	2,699	SCR	2.0	BACT-PSD
UMATILLA GENERATING COMPANY, L.P.	OREGON	5/11/2004	?	(2) TURBINE, COMBINED CYCLE & DUCT BURNER	2,007	DLN COMBUSTORS AND SCR	2.0	BACT-OTHER
CALPINE CONSTRUCTION FINANCE CO., LP	ONTELAUNEE TWP., PA	10/10/2000	YES	TURBINE, COMBINED CYCLE	1,456	SCR AND DRY LNB	2.0	LAER
LIMERICK PARTNERS, LLC	LIMERICK, PA	4/9/2002	NO	(3) TURBINE, COMBINED CYCLE	1,467	DLN AND SCR	2.0	LAER
RELIANT ENERGY HOPE GENERATING FACILITY	JOHNSTON, RI	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	1,488	SCR	2.0	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	WASHINGTON	1/2/2003	NO	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	GE ADVANCED DRY-LOW NOX COMBUSTORS + SCR	2.0	BACT-PSD
GOLDENDALE ENERGY PROJECT	KIRKLAND, WA	2/23/2001	?	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	LNB,S SCR AND GCP	2.0	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	4/17/2003	NO	(2) TURBINES, COMBINED CYCLE	2,640	DLN BURNERS, SCR	2.0	BACT-PSD
MIRANT BOWLINE LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	1,815	DLN AND SCR	2.0	LAER
				(3) COMBINED CYCLE TURBINES	2,049		2.9	
CONED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	SCR AND DLN	2.0	LAER
				(2) COMBUSTION TURBINES, W/ DUCT BURNER	3,165		3.0	
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	DLN AND SCR	2.0	OTHER
				(1) COMBINED CYCLE COMBUSTION TURBINE, W/ DB	2,423		3.1	
ANP BLACKSTONE ENERGY COMPANY	BLACKSTONE, MA	4/16/1999	?	(2) TURBINE, COMBINED CYCLE	1,815	SCR	2.0	LAER
				(2) TURBINE, COMBINED CYCLE, W/ STEAM INJECTION	1,815		3.5	
ANP BELLINGHAM ENERGY COMPANY	MARLBOROUGH, MA	8/4/1999	?	(2) TURBINES, COMBINED CYCLE	3,630	SCR	2.0	LAER
				(2) TURBINES, COMBINED CYCLE, W/ STEAM INJECTION	3,630		3.5	
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	(2) SIEMENS SGT6-5000F CTGs (NG FIRED) W/ DB	2,205	LNB AND SCR	2.0	LAER
CPV WARREN	WARREN,VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 1	1,717	2 STAGE PREMIX NOX COMBUSTION AND SCR	2.0	BACT-PSD
CPV WARREN	WARREN,VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 3	2,204	2 STAGE LEAN PREMIX AND GCP, SCR	2.0	BACT-PSD
CPV WARREN	WARREN,VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 2"	1,944	GCP, 2 STAGE LEAN PREMIX AND SCR.	2.0	BACT-PSD
ATHENS GENERATING PLANT	GREENE, NY	1/19/2007	NO	FUEL COMBUSTION (GAS)	3,100	DLN AND GAS FIRING, SCR W/ NAOH INJECTION	2.0	LAER
TRACY SUBSTATION EXPANSION PROJECT	STOREY COUNTY, NV	8/16/2005	?	TURBINE, COMBINED CYCLE COMBUSTION #1 W/ HRSG & DB	2,448	SCR W/ AMMONIA INJECTION	2.0	BACT-PSD
TRACY SUBSTATION EXPANSION PROJECT	STOREY COUNTY, NV	8/17/2005	?	TURBINE, COMBINED CYCLE COMBUSTION #2 W/ HRSG & DB	2,448	SCR W/ AMMONIA INJECTION	2.0	BACT-PSD
EMPIRE POWER PLANT	RENSSELAER, NY	6/23/2005	?	FUEL COMBUSTION (NATURAL GAS)	2,099	DLN IN COMBINATION W/ SCR	2.0	LAER
ISLAND END-CABOT POWER	BOSTON, MA	2000	NO	TURBINE, COMBINED CYCLE	2,800	SCR	2.0	LAER
HERITAGE STATION	SCRIBA NY	10/12/2000	NO	TURBINE, COMBINED CYCLE	6,400	SCR	2.0	LAER
BOWLINE POINT UNIT 3	NEW YORK	2001	NO	TURBINE, COMBINED CYCLE	6,000	DLN,SCR	2.0	LAER
RAVENSWOOD COGENERATION FACILITY	LONG ISLAND CITY, NY	2001	NO	TURBINE, COMBINED CYCLE	2,000	DLN,SCR	2.0	LAER
SITHE MYSTIC DEVELOPMENT LLC	EVERETT, MA	1/25/2000	NO	TURBINE, COMBINED CYCLE		SCR	2.0	STATE BACT
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	9/6/2002	?	(2) TURBINES, COMBINED CYCLE	1,338	SCR	2.2	BACT-PSD
FREE STATE ELECTRIC	MARYLAND	9/27/2001	NO	TURBINE, COMBINED CYCLE	1,650	DRY LOW NOx., SCR	2.5	BACT
BARTON SHOALS ENERGY	ENGLEWOOD, AL	7/12/2002	?	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	DLN + SCR	2.5	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE	1,844	DLN COMBUSTORS AND SCR	2.5	BACT-PSD
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	DLN AND SCR	2.5	BACT
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	DLN AND SCR	2.5	BACT
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	DLN AND SCR	2.5	BACT
HARQUAHALA GENERATING PROJECT	TONOPAH, AZ	2/15/2001	YES	COMBINED CYCLE NATURAL GAS	2,362	SCR	2.5	BACT-OTHER
DUKE ENERGY ARLINGTON VALLEY	ARLINGTON, AZ	12/14/2000	YES	TURBINE, COMBINED CYCLE	2,040	SCR	2.5	BACT-PSD
PINNACLE WEST ENERGY CORP./REDHAWK	PHOENIX, AZ	12/2/2000	YES	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	SCR AND LNB	2.5	BACT-PSD
KYRENE GENERATING STATION, SALT RIVER	PHOENIX, AZ	3/14/2001	YES	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	SCR	2.5	LAER
MOUNTAINVIEW POWER	SAN BERNARDINO, CA	5/22/2001	YES	(4) TURBINE, COMBINED CYCLE	1,991	SCR	2.5	LAER
VALERO REFINING COMPANY	BENICIA, CA	1/11/2000	YES	(2) COMBUSTION TURBINE, COMBINED CYCLE	816	SCR W/ AMMONIA INJECTION	2.5	LAER
BP CHERRY POINT COGENERATION	WHATCOM CO., WA	3/1/2004	NO	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	SCR PLUS LEAN PREMIX DLN LNB	2.5	BACT
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,680	DLN PLUS SCR WET INJECTION	2.5	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,680	DLN, SCR, WET INJECTION	2.5	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE, W/ AND W/O DB	1,600	DLN COMBUSTORS AND SCR	2.5	BACT-PSD
FPL MANATEE PLANT - UNIT 3	PARRISH, FL	4/15/2003	?	(4) TURBINE, COMBINED CYCLE, W/ AND W/O DB	1,600	DLN COMBUSTORS WITH SCR	2.5	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	DLN COMBUSTORS & SCR	2.5	BACT-PSD
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE, DUCT BURNER	1,902	LNB, SCR	2.5	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
GARNET ENERGY, MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,097	LNB, SCR	2.5	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	INDIANA	12/7/2001	?	(2) CMBND CYCLE COMBUST. TURBINE WESTINGHOUSE 501F	2,071	DLN COMBUSTOR AND SCR SYSTEM	2.5	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	2,400	SCR	2.5	LAER
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	?	(2) TURBINE, COMBINED CYCLE	2,112	SCR AND DLN BURNERS	2.5	LAER
CAROLINA POWER & LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINES, COMBINED CYCLE	1,628	DLN COMBUSTORS AND SCR	2.5	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,628	DLN COMBUSTORS AND SCR	2.5	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,384	DLN AND SCR	2.5	BACT-PSD
GENPOWER EARLEYS, LLC	NORTH CAROLINA	1/9/2002	?	(2) TURBINES, COMBINED CYCLE	1,715	DLN AND SCR	2.5	BACT-PSD
MIRANT GASTONIA POWER FACILITY	NORTH CAROLINA	5/28/2002	?	(4) TURBINES, COMBINED CYCLE W/ AND W/O DB (GE, MHI, SW)	1,400	DLN AND SCR	2.5	BACT-PSD
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 & #2	2,849	LNB WITH SCR	2.5	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LNB WITH SCR	2.5	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	?	(3) COMBINED CYCLE TURBINE, W/ AND W/O DB	2,964	SCR - AMMONIA FLOW RATE AT 11.46 GAL/H	2.5	OTHER
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	?	(3) COMBUSTION TURBINE (60%-100% LOAD) W/ AND W/O DB	2,181	SCR - 29% AQUEOUS AMMONIA, DLN	2.5	OTHER
PORT WESTWARD PLANT	PORTLAND, OR	1/16/2002	?	(2) COMBUSTION TURBINES WITH DUCT BURNER	2,600	SCR, DLN COMBUSTION AND GCP	2.5	BACT-PSD
COB ENERGY FACILITY, LLC	OREGON	12/30/2003	?	(4) TURBINE, COMBINED CYCLE DUCT BURNER	2,300	DLN COMBUSTORS, AND SCR	2.5	BACT-PSD
KLAMATH GENERATION, LLC	PORTLAND, OR	3/12/2003	NO	(2) TURBINE, COMBINED CYCLE DUCT BURNER	1,920	DLN COMBUSTION, SCR	2.5	BACT-PSD
CALPINE BERKS ONTELAUNEE POWER PLANT	READING, PA	10/10/2000	?	(2) TURBINES, COMBINED CYCLE	2,176	SCR	2.5	LAER
FAIRLESS ENERGY LLC	GLEN ALLEN, PA	3/28/2002	?	(4) TURBINES, COMBINED CYCLE	2,380	SCR, DLN COMBUSTION	2.5	LAER
CONECTIV BETHLEHEM, INC.	PENNSYLVANIA	1/16/2002	?	(6) TURBINE, COMBINED CYCLE	976	SCR, DLN COMB, CLEAN FUEL WI NG DIFFUSION MODE	2.5	LAER
DUKE ENERGY FAYETTE, LLC	MASONTOWN, PA	1/30/2002	?	(2) TURBINE, COMBINED CYCLE	2,240	LNB, SCR	2.5	LAER
SPRINGDALE TOWNSHIP STATION	GREENSBURG, PA	7/12/2001	YES	TURBINE, COMBINED CYCLE	2,094	DLN BURNERS WITH SCR	2.5	BACT-PSD
DEER PARK ENERGY CENTER	HOUSTON, TX	8/22/2001	?	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	DLN & SCR	2.5	LAER
MIRANT AIRSIDE INDUSTRIAL PARK	VIRGINIA	12/6/2002	?	(2) TURBINE, COMBINED CYCLE	1,962	LEAN PRE-MIX DLN AND GCP. SCR SYSTEM AND CEM	2.5	BACT-PSD
JAMES CITY ENERGY PARK	VIRGINIA	12/1/2003	?	TURBINE, COMBINED CYCLE W/ AND W/O DUCT FIRING	2,325	DLN BURNERS SCR W/ CEM DEVICES	2.5	BACT-PSD
DUKE ENERGY WYTHE, LLC	VIRGINIA	2/5/2004	NO	(2) TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	2,470	SCR AND LNB. GCP	2.5	BACT-PSD
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	SCR	2.5	BACT-OTHER
WALLULA POWER PLANT	WASHINGTON	1/3/2003	NO	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	SCR	2.5	BACT-OTHER
BLACK HILLS CORP./NEIL SIMPSON TWO	GILLETTE, WY	4/4/2003	?	TURBINE, COMBINED CYCLE & DUCT BURNER	320	DLN BURNERS AND SCR	2.5	BACT-OTHER
MESQUITE GENERATING STATION	ARLINGTON, AZ	3/22/2001	?	TURBINE, COMBINED CYCLE	1,923	SCR	2.5	BACT-PSD
HENRY COUNTY POWER	VIRGINIA	11/21/2002	?	TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,923	DLN COMBUSTION AND SCR W/CEM	3.1	BACT-PSD
				(4) TURBINE, COMBINED CYCLE 100%LOAD, W/ DUCT FIRING	2,200		2.5	
				(4) TURBINE, COMBINED CYCLE 70%LOAD, W/ DUCT FIRING	958		3.3	
				(4) COMBUSTION TURBINE COMBINED CYCLE	2,010		2.5	
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	?	(4) COMBUSTION TURBINE COMBINED CYCLE, W/ STEAM INJ	2,010	THE USE OF DLN COMBUSTOR AND SCR	3.5	BACT-PSD
				(4) COMBUSTION TURBINE COMBINED CYCLE	2,132		2.5	
CPV CUNNINGHAM CREEK	SILVER SPRING, VA	9/6/2002	NO	(2) TURBINE, COMBINED CYCLE	1,492	LNB AND GCP. SCR USING AMMONIA INJECTION. CEM	4.5	BACT-PSD
				(2) TURBINE, COMBINED CYCLE, 70% LOAD	4,240		2.5	
HINES POWER BLOCK 4	POLK, FL	6/8/2005	?	COMBINED CYCLE TURBINE	920	SCR	2.5	BACT-PSD
SEPCO	RIO LINDA, CA	10/5/1994	?	TURBINE, GAS COMBINED CYCLE GE MODEL 7	646	SCR AND DLN COMBUSTION	2.6	BACT
EMPIRE POWER PLANT	RENSSELAER, NY	6/23/2005	?	FUEL COMBUSTION (NATURAL GAS) DUCT BURNING		DLN IN COMBINATION W/ SCR	3.0	LAER
S.W.E.C., LLC	FALLS TWP, PA	2001	NO	COMBUSTION TURBINE			3.0	LAER
SACRAMENTO POWER AUTHORITY CAMPBELL SOUP	SACRAMENTO, CA	8/19/1994	YES	TURBINE GAS, COMBINE CYCLE SIEMENS V84.2	1,257	SCR AND DRY LOW NOX COMBUSTION	3.0	BACT
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,876	SCR AND DLN	3.0	BACT-PSD
PANDA GILA RIVER	GILA BEND, AZ	2/23/2001	YES	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	SCR	3.0	BACT-PSD
SALT RIVER/DESERT BASIN GENERATING PROJECT	PHOENIX, AZ	9/10/1999	YES	TURBINE, COMBINED CYCLE	2,320	SCR	3.0	BACT-PSD
SACRAMENTO COGENERATION AUTHORITY P&G	SACRAMENTO, CA	8/19/1994	?	TURBINE, GAS COMBINED CYCLE LM6000	421	SCR AND WATER INJECTION	3.0	BACT
SACRAMENTO POWER AUTHORITY CAMPBELL SOUP	SACRAMENTO, CA	8/19/1994	?	TURBINE GAS COMBINE CYCLE SIEMENS V84.2	1,257	SCR AND DLN COMBUSTION	3.0	BACT
ROCKY MOUNTAIN ENERGY CENTER, LLC.	LITTLETON, CO	8/11/2002	YES	(2) COMBINED-CYCLE TURBINE	2,311	LN COMB (POLLUTION PREVENTION) AND SCR (CONTROL)	3.0	BACT-PSD
AUGUSTA ENERGY CENTER	GEORGIA	10/28/2001	YES	(3) TURBINE, COMBINED CYCLE	2,000	SCR	3.0	BACT-PSD
EFFINGHAM COUNTY POWER, LLC	GEORGIA	12/27/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	LNB AND SCR	3.0	BACT-PSD
MURRAY ENERGY FACILITY	DALTON, GA	10/23/2002	?	(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,480	DLN BURNERS AND SCR	3.0	BACT-PSD
WANSLEY COMBINED CYCLE ENERGY FACILITY	ROOPVILLE, GA	1/15/2002	?	(2) TURBINE, COMBINED CYCLE	1,336	DLN COMBUSTORS SCR	3.0	
GREATER DES MOINES ENERGY CENTER	PLEASANT HILL, IA	4/10/2002	YES	(2) COMBUSTION TURBINES - COMBINED CYCLE	1,400	SCR WITH DLN COMBUSTION	3.0	BACT-PSD
ROQUETTE AMERICA	KEOKUK, IA	1/31/2003	?	TURBINE, COMBINED CYCLE	587	SCR	3.0	BACT-PSD
PSEG LAWRENCEBURG ENERGY FACILITY	LAWRENCEBURG, IN	6/7/2001	YES	(4) TURBINE, COMBINED CYCLE	477	SCR	3.0	BACT-PSD
MIRANT SUGAR CREEK, LLC	WEST TERRE HAUTE, IN	5/9/2001	YES	TURBINE, COMBINED CYCLE	1,360	SCR	3.0	BACT-PSD
WHITING CLEAN ENERGY, INC.	WHITING, IN	7/20/2000	YES	(2) TURBINES, COMBUSTION, W/ AND W/O DB	1,735	SCR (80-90%), DLN BURNERS AND GCP	3.0	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	INDIANA	10/5/2001	?	(3) TURBINES, COMBINED CYCLE, W/ AND W/O DB	1,944	DLN BURNERS AND GOOD COMBUSTION: SCR	3.0	BACT-PSD
MIRANT SUGAR CREEK LLC	WEST TERRE HAUTE, IN	7/24/2002	?	(4) TURBINE, COMBINED CYCLE, W/ AND W/O DB	1,491	DLN BURNERS AND SCR. NATURAL GAS IS ONLY FUEL	3.0	BACT-PSD
KALKASKA GENERATING, INC	RAPID RIVER TWP, MI	2/4/2003	YES	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	SCR AND LNB	3.0	BACT-PSD
SOUTH SHORE POWER LLC	BRIDGEMAN, MI	1/30/2003	YES	(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,883	DLN BURNERS AND SCR	3.0	BACT-PSD
CONTINENTAL ENERGY SVC, SILVER BOW GEN	BUTTE, MT	6/7/2002	NO	(4) COMBINED CYCLE CT	1,400	SCR	3.0	BACT-PSD
LAWRENCE ENERGY	OHIO	9/24/2002	YES	(3) TURBINES, COMBINED CYCLE DUCT BURNERS ON/OFF	1,440	DLN & LNB & SCR	3.0	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	OHIO	12/13/2001	YES	(4) TURBINES COMBINED CYCLE DUCT BURNERS ON/OFF	1,376	DLN BURNERS AND SCR	3.0	BACT-PSD
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	DLN BURNERS, SCR	3.0	LAER
RELIANT ENERGY- CHANNELVIEW COGEN	HOUSTON, TX	10/29/2001	NO	(4) TURBINE/HRSG #1-#4	2,350	NONE INDICATED	3.0	BACT
CEDAR BLUFF POWER PROJECT	CEDAR BLUFF, TX	12/21/2000	NO	(2) COMBUSTION TURBINES W/HRSG STACK1&2	2,640	SCR	3.0	LAER
MONTGOMERY COUNTY POWER PROJECT	TEXAS	6/27/2001	NO	(2) CTG-HRSG STACKS STACK1 & 2	1,440	SCR SYSTEM UNIT	3.0	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,375	SCR, CEM	3.0	BACT-PSD
TRANSALTA CENTRALIA GENERATION LLC	CENTRALIA, WA	2/22/2002	?	(4)TURBINE/HRSG	1,504	WATER INJECTION AND SCR	3.0	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	ADVANCED DLN TECHNOLOGY AND SCR	3.0	BACT-PSD
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	7/25/2001	YES	(2) GAS TURBINES COMBINED CYCLE	2,205	DLN STAGED COMB SCR MODE: W/ STEAM INJECTION	3.0	BACT-PSD
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	1/28/2003	YES	(2) TURBINE, COMBINED CYCLE	2,200	DLN BURNERS AND SCR	3.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE W/ DB, POWER AUG.	2,200		3.5	
HAY ROAD POWER COMPLEX UNITS 5-8	WILMINGTON, DE	10/17/2000	YES	TURBINES (3) COMBINED CYCLE PREMIXED MODE, BASELOAD	1,333	DLN BURNERS WITH SCR	3.0	LAER
				TURBINES (3) COMBINED CYCLE PREMIXED MODE, PEAKLOAD	1,333		9.0	
				TURBINES (3) COMBINED CYCLE NG DIFFUSION MODE	1,333		14.0	
BERKSHIRE POWER DEVELOPMENT, INC.	AGAWAM, MA	9/22/1997	?	TURBINE, COMBUSTION ABB GT24	1,792	DLN COMB WITH SCR ADD-ON NOX CONTROL	3.1	BACT-PSD
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,046	SCR & DLN	3.1	BACT-OTHER
SOUTHERN ENERGY, INC.	ZEELAND, MI	3/16/2000	NO	COMBINED CYCLE TURBINE ELECTRICAL GENERATING UNITS		SELECTIVE CATALYTIC REDUCTION (SCR)	3.5	BACT-PSD
PIKE GENERATION FACILITY	MCCOMB, MS	11/14/2000	NO	COMBUSTION TURBINE	1,259	DLN, SCR	3.5	BACT-PSD
CPV GULFCOAST LTD	MANATEE CO, FL	2/6/2001	NO	COMBUSTION TURBINE	1,960	SCR	3.5	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	?	TURBINE, COMBUSTION ABB GT11N2	1,327	DLN COMB WITH SCR ADD-ON NOX CONTROL	3.5	BACT-PSD
BEATRICE POWER STATION	GAGE CO., NE	6/22/2004	NO	(2) COMBUSTION TURBINES W/ DUCT BURNER	1,000	NONE INDICATED	3.5	BACT-PSD
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(6) COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	DLN W/SCR	3.5	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	ALABAMA	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/ DUCT FIRING	1,360	DLN COMBUSTION & SCR	3.5	BACT-PSD
DUKE ENERGY DALE, LLC	ALABAMA	12/11/2001	?	(2) GE 7FA COMB. CYCLE W/DB	1,928	DLN AND SCR	3.5	BACT-PSD

Appendix G

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Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
DUKE ENERGY AUTAGA, LLC	ALABAMA	10/23/2001	?	(2) GE COM. CYCLE UNITS W/HRSG & 550 MMBTU/HR DB	2,407	SCR	3.5	BACT-PSD
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE COMBUSTION TURBINE UNITS	1,360	DLN COMBUSTORS + SCR	3.5	BACT-PSD
TPS - DELL, LLC	DELL, AR	8/8/2000	YES	(2) TURBINE	2,560	SCR/DLN	3.5	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	DLN BURNERS AND SCR	3.5	BACT-PSD
HOT SPRINGS POWER PROJECT	ARKANSAS	11/9/2001	?	(2) COMBUSTION TURBINE, HRSG, DUCT BURNER	2,800	DLN BURNERS W/ SCR	3.5	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	ARKANSAS	4/1/2002	NO	(2) TURBINES, COMBINED CYCLE	1,360	SCR AND DLN COMBUSTORS	3.5	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE	1,480	SCR	3.5	BACT-PSD
GENOVA ARKANSAS I, LLC	ARKANSAS	8/23/2002	NO	(2) TURBINE, COMBINED CYCLE (GE, SWH OR MH)	1,360	DLN COMBUSTOR/SCR	3.5	BACT-PSD
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE, W/ AND W/O DB	1,696	DLN BURNERS	3.5	BACT-PSD
CPV GULFCOAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,700	DLN WET INJECTION	3.5	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	DLN COMBUSTORS & SCR	3.5	BACT-PSD
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE	1,700	SCR (DLN 2.6). WET INJECTION	3.5	BACT-PSD
OUC STANTON ENERGY CENTER	PENSACOLA, FL	9/21/2001	YES	(2) TURBINE, COMBINED CYCLE	2,402	SCR	3.5	BACT-PSD
JEABRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	DLN BURNERS	3.5	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	GOOD COMBUSTION AND SCR	3.5	BACT-PSD
MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) GAS TURBINES WITH DUCT BURNERS	2,097	DUCT BURNER, SCR	3.5	BACT-PSD
RUMFORD POWER ASSOCIATES	RUMFORD, ME	5/1/1998	YES	TURBINE GENERATOR COMBUSTION	1,906	SCR	3.5	BACT-PSD
CASCO BAY ENERGY CO	VEAZIE, ME	7/13/1998	?	(2) TURBINE, COMBINED CYCLE	1,360	SCR	3.5	BACT-PSD
RENAISSANCE POWER LLC	MICHIGAN	6/7/2001	?	(3) TURBINES, STATIONARY GAS COMBINED CYCLE	1,360	DLN BURNERS AND SCR	3.5	BACT-PSD
MIDLAND COGENERATION	MIDLAND, MI	7/26/2001	?	(2) GAS TURBINE COMBINED CYCLE, W/ AND W/O DB	2,096	DLN BURNER AND SCR	3.5	BACT-PSD
INDECK-NILES, LLC	NILES, MI	12/2/2001	?	(4) GAS TURBINES COMBINED CYCLE, W/ AND W/O DB	2,152	LNB AND SCR	3.5	BACT-PSD
BERRIEN ENERGY, LLC	BENTON HARBOR, MI	10/10/2002	?	(3) TURBINE, COMBINED CYCLE AND DUCT BURNER	2,300	DLN BURNERS STAGED COMB OF NATURAL GAS + SCR	3.5	BACT-PSD
CALEDONIA POWER LLC	CALEDONIA, MS	3/27/2001	?	ELECTRIC POWER GENERATION TURBINE & DUCT BURNER	1,700	DLN COMBUSTORS + SCR	3.5	BACT-PSD
LSP- BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/13/2001	?	COMBINED CYCLE COMBUSTION TURBINE GENERATION	2,100	SCR	3.5	BACT-PSD
EL PASO MERCHANT ENERGY CO.	MISSISSIPPI	6/24/2002	?	(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,062	LNB AND SCR UNIT	3.5	BACT-PSD
CHOCTAW GAS GENERATION, LLC	MISSISSIPPI	12/13/2001	?	(2) TURBINE, COMBINED CYCLE	2,737	DLN BURNERS AND SCR	3.5	BACT-PSD
PIKE GENERATION FACILITY	MISSISSIPPI	9/24/2002	NO	(4) TURBINES, COMBINED CYCLE, WITH DUCT BURNER	2,168	DLN COMBUSTORS, SCR	3.5	BACT-PSD
BEATRICE POWER STATION	BEATRICE, NE	5/29/2003	NO	(2) TURBINE, COMBINED CYCLE	640	LNB AND SCR	3.5	BACT-PSD
CLOVIS ENERGY FACILITY	NEW MEXICO	6/27/2002	?	(4) TURBINES, COMBINED CYCLE	1,515	SCR AND COMBUST ONLY PIPELINE QUALITY NATURAL GAS	3.5	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	YES	(2) TURBINE COMBINED CYCLE W/ AND W/O DUCT FIRING	1,360	DLN COMBUSTION BURNERS AND SCR	3.5	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	YES	(3) TURBINES, COMBINED CYCLE W/ AND W/O DUCT FIRING	1,360	DLN COMBUSTION BURNERS AND SCR	3.5	BACT-PSD
JACKSON COUNTY POWER, LLC	OHIO	12/27/2001	YES	(4) COMBUSTION TURBINES COMBINED CYCLE, W/ DB	2,440	SCR WITH DLN COMBUSTION	3.5	BACT-PSD
FREMONT ENERGY CENTER, LLC	OHIO	8/9/2001	YES	(2) COMBUSTION TURBINES COMB CYCLE W/ AND W/O DB	1,440	SCR AND DLN BURNERS	3.5	BACT-PSD
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/ AND W/O DB	1,374	SCR AND DLN BURNERS	3.5	BACT-PSD
GENOVA OK I POWER PROJECT	OKLAHOMA	6/13/2002	?	COMBUSTION TURBINE & DUCT BURNERS (GE OR MH)	1,705	SCR WITH DLN COMBUSTORS	3.5	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	OKLAHOMA	12/10/2001	?	(2) TURBINES, COMBINED CYCLE	1,701	SCR, DLN COMBUSTORS	3.5	BACT-PSD
REDBUD POWER PLANT	LUTHER, OK	3/18/2002	?	(4) COMBUSTION TURBINE AND DUCT BURNERS	1,832	SCR WITH DLN BURNERS	3.5	BACT-PSD
FPL ENERGY MARCUS HOOK, L.P.	MARCUS HOOK, PA	5/4/2003	?	(3) TURBINE, COMBINED CYCLE, W/ AND W/O DB	1,798	DLN COMBUSTION TECHNOLOGY AND SCR	3.5	BACT-PSD
LIBERTY ELECTRIC POWER , LLC	PENNSYLVANIA	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	2,000	DLN COMBUSTORS, SCR	3.5	LAER
LOWER MOUNT BETHEL ENERGY, LLC	FAIRFAX	10/20/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	SCR, DLN LEAN BURN COMBUSTORS	3.5	LAER
RELiant ENERGY HUNTERSTOWN, LLC	JOHNSTOWN, PA	6/15/2001	?	(3) COMBUSTION TURBINE COMBINED CYCLE	2,400	DLN LEAN BURNERS & SCR	3.5	LAER
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	DLN BURNERS, SCR	3.5	BACT-PSD
HAYWOOD ENERGY CENTER, LLC	TENNESSEE	2/1/2002	?	TURBINE, COMBINED CYCLE W/ AND W/O DUCT FIRING	1,990	DLN BURNERS, SCR	3.5	BACT-PSD
MEMPHIS GENERATION, LLC	MEMPHIS, TN	4/9/2001	NO	TURBINE, COMBINED CYCLE DUCT BURNER	1,698	SCR AND LNB	3.5	BACT-PSD
ELECTRIC GENERATING STATION	HOUSTON, TX	8/31/2000	?	(8) ELECTRIC GENERATION TURBINES	2,000	SCR	3.5	LAER
CHANNEL ENERGY FACILITY	HOUSTON, TX	3/22/2000	?	(3) TURBINE	1,440	SCR	3.5	LAER
CHAMBERS ENERGY L.P./AMERICAN NATIONAL POWER	SAN ANTONIO, TX	3/6/2000	NO	(8) ABB GT-24 COMBUSTION TURBINES	1,440	DLN COMBUSTORS AND SCR SYSTEM H2O INJECTION	3.5	LAER
CHANNELVIEW COGENERATION FACILITY	HOUSTON, TX	12/9/1999	YES	(4) TURBINE COGENERATION FACILITY	1,600	DLN COMBUSTION AND SCR	3.5	LAER
BAYTOWN COGENERATION PLANT	TEXAS	2/11/2000	?	(3) TURBINE/HRSGS CTG1-3	2,000	SCR, DLN BURNERS	3.5	LAER
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	NO	(8) COMBUSTION GS TURBINE GENERATORS STACK	1,400	SCR	3.5	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	RICHMOND, TX	12/31/2002	?	(4) HRSG/TURBINES 001,002,003,004	1,400	SCR	3.5	BACT-PSD
CHOCOLATE BAYOU PLANT	ALVIN, TX	3/24/2003	NO	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	DLN COMBUSTORS & SCR	3.5	BACT-OTHER
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,937	WATER INJECTION SCR AND CEM	3.5	LAER
MILLENNIUM POWER PARTNER, LP	CHARLTON, MA	2/2/1998	?	TURBINE, COMBUSTION WESTINGHOUSE MODEL 501G	2,534	DLN COMBUSTION + SCR ADD-ON NOX CONTROLS	3.5	BACT-PSD
EL DORADO ENERGY, LLC	CLARK CO., NV	8/19/2004	?	(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN	1,900	LNB + SCR	3.5	BACT-PSD
				(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN, W/ DB	1,900		3.7	
PANDA CULLODEN GENERATING STATION	CULLODEN, WV	12/18/2001	?	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	DLN BURNERS AND SCR	3.5	BACT-PSD
				COMBUSTION TURBINE, 300 MW, W/ DUCT BURNER	2,400		4.4	
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(2) COMBINED CYCLE COMB. TURB.	1,384	DLN COMBUSTOR & SCR NOX CONTROL	3.6	BACT-PSD
AEC - MCWILLIAMS PLANT	GANTT, AL	3/3/2000	YES	(2) TURBINES, COMBINED CYCLE COMBUSTION	1,328	CLEAN BURNERS AND SCR	3.6	BACT-PSD
AUTAGAVILLE COMBINED CYCLE PLANT	PRATTVILLE, AL	1/8/2001	?	(4) COMBUSTION TURBINES COMBINED CYCLE	1,384	DLN BURNERS AND SCR	3.6	BACT-PSD
DECATUR ENERGY CENTER	DECATUR, AL	6/6/2000	YES	(3) TURBINES, COMBINED CYCLE	1,867	DLN BURNER AND SCR	3.6	BACT-PSD
GENPOWER KELLEY LLC	QUINTON, AL	1/12/2001	?	(4) TURBINE, COMBINED CYCLE ELECTRIC GEN UNITS	1,384	DLN AND SCR	3.6	BACT-PSD
BEAR MOUNTAIN LIMITED	BAKERSFIELD, CA	8/19/1994	?	TURBINE, GE COGENERATION 48 MW	384	STEAM INJECTION AND SCR	3.6	BACT-OTHER
SWEPKO ARSENAL HILL POWER PLANT	CADDO, LA	3/20/2008	?	TWO COMBINED CYCLE GAS TURBINES	2,110	LOW NOX TURBINES, DUCT BURNERS COMBINED WITH SCR	3.9	BACT
TENASKA ALABAMA GENERATING STATION	BILLINGSLEY, AL	11/29/1999	YES	(3) TURBINE & DUCT BURNER	1,360	DLN BURNER & SCR ON TURBINE. LNB ON DUCT BURNER	4.0	BACT-PSD
NORTH AMERICAN POWER GP - KIOWA CREEK	GREENWOOD VILLAGE, CO	1/17/2001	?	(4) COMBINED-CYCLE GAS TURBINES - GENERATORS	2,000	DLN COMBUSTION AND SCR USING AMMONIA INJECTION	4.0	BACT-PSD
KANSAS CITY POWER & LIGHT CO. - HAWTHORN	KANSAS CITY, MO	8/19/1999	YES	(2) TURBINE, COMBINED	1,360	SCR OF NOX	4.0	BACT-OTHER
BLUE MOUNTAIN POWER, LP	RICHLAND, PA	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,224	DRY LNB WITH SCR	4.0	LAER
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	LNB, SCR	4.0	BACT-PSD
PORTLAND GENERAL ELECTRIC CO.	OR	5/31/1994	YES	TURBINES, NATURAL GAS (2)	1,720	SCR	4.5	BACT-PSD
SITHE/INDEPENDENCE POWER PARTNERS	OSWEGO, NY	11/24/1992	YES	TURBINES, COMBUSTION (4) (NATURAL GAS) (1012 MW)	2,133	SCR AND DRY LOW NOX	4.5	BACT-OTHER
FIRBAULT ENERGY PARK	RICE, MN	6/5/2007	?	COMBINED CYCLE COMBUSTION TURBINE W/DUCT BURNER	1,758	DLN COMBUSTION FOR NG; WATER INJ FOR OIL; SCR	4.5	BACT-PSD
PERRYVILLE	ALEXANDRIA, LA	8/25/2000	?	(4) GAS TURBINES IN COMBINED CYCLE MODE	1,774	LNB, SCR	4.5	BACT-PSD
WYANDOTTE ENERGY	WYANDOTTE, MI	2/8/1999	YES	(2) TURBINE, COMBINED CYCLE POWER PLANT	2,000	SCR	4.5	BACT-OTHER
BLUEWATER ENERGY CENTER LLC	MICHIGAN	1/7/2003	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	DLN BURNERS AND SCR	4.5	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	SCR WITH A NOX CEM AND A NOX PEM	4.5	BACT-PSD
XCEL ENERGY, BLACK DOG ELECTRIC GEN STATION	BURNSVILLE, MN	11/17/2000	?	COMBUSTION TURBINE WITH HRSG	1,917	DLN COMBUSTORS PLUS SCR	4.5	95.9
BLACK DOG GENERATING PLANT	BURNSVILLE, MN	1/12/2001	?	TURBINE, COMBINED CYCLE	2,320	DLN BURNERS, SCR	4.5	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	OKLAHOMA	10/1/1999	?	(3) TURBINES W/ DUCT BURNERS, COMBINED CYCLE	2,133	DLN COMBUSTOR	4.5	BACT-PSD
KLAMATH FALLS COGENERATION FACILITY	PORTLAND, OR	1/27/1998	?	COMBUSTION TURBINE (1 OR 2)	1,700	DRY COMBUSTION CONTROLS AND SCR	4.5	BACT-PSD
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	(2) COMBUSTION TURBINES #1 & #2	1,836	SCR	4.5	BACT-PSD
PERRYVILLE POWER STATION	ALEXANDRIA, LA	3/8/2002	?	(2) GAS TURBINES, EPNS 1-1, 1-2	1,360	LNB, AND/OR SCR GOOD OPER & NATURAL GAS AS FUEL	4.5	BACT-PSD
				(2) GAS TURBINE/HRSG UNITS, EPNS 1-1, 1-2	1,360		12.5	
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	NO	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	SCR, LOW NOX COMBUSTORS	4.5	BACT-PSD
				TURBINE, COMBINED CYCLE W/O DUCT BURNERS	2,166		15.0	

Appendix G

Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW

Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
ALABAMA POWER COMPANY - THEODORE COGEN	THEODORE, AL	3/16/1999	YES	TURBINE, W/ DUCT BURNER	1,360	DLN COMBUSTOR IN CT LNB IN DUCT BURNER, SCR	4.9	BACT-PSD
CROCKETT COGENERATION - C&H SUGAR	CROCKETT, CA	10/5/1993	YES	TURBINE, GAS, GENERAL ELECTRIC MODEL PG7221(FA)	1,920	DRY LOW-NOX COMBUSTERS AND A MITSUBISHI HEAVY INDUSTRIES AMERICAN SCR	5.0	BACT-OTHER
GEISMAR PLANT	GEISMAR, LA	2/26/2002	?	(2) COGENERATION UNITS W/ AND W/O DB	320	LNB AND A SCR SYSTEM	5.0	BACT-PSD
PLAQUEMINE, IBERVILLE PARISH	LOUISIANA	12/26/2001	?	(4) GAS TURBINES/DUCT BURNERS	2,876	DLN BURNERS, SCR	5.0	BACT-PSD
LOST PINES 1 POWER PLANT	AUSTIN, TX	9/30/1999	?	(2) COMBINED CYCLE TURBINE	1,464	SCR & DLN BURNERS	5.0	BACT-PSD
SAM RAYBURN GENERATION STATION	NURSERY	1/17/2002	?	(3) COMBUSTION TURBINES 7,8,9	360	SCR AND GOOD COMBUSTION"	5.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(6) GAS FUELED TURBINES, STACK 1-6	2,200	SCR, DLN BURNERS	5.0	BACT-PSD
WEST TEXAS ENERGY FACILITY	HOUSTON, TX	7/28/2000	NO	(2) GAS TURBINE W/ AND W/O POWER AUGMENTATION	2,000	DLN COMBUSTORS & SCR	5.0	BACT-PSD
ENNIS TRACTEBEL POWER	TEXAS	1/31/2003	NO	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	DLN BURNERS & SCR SYSTEM	5.0	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	?	(4) GAS TURBINES WITH HRSG (COMBINED FIRING)	1,384	DLN BURNERS, FIRING WITH NATURAL GAS, USE OF SCR	5.0	BACT-PSD
				(4) GAS TURBINES TURBINE ONLY FIRING	1,360		9.0	
MOBILE ENERGY LLC	MOBILE, AL	1/5/1999	YES	TURBINE, GAS COMBINED CYCLE	1,344	SCR & DLN COMBUSTORS	5.1	BACT-PSD
BRIDGEPORT ENERGY, LLC	BRIDGEPORT, CT	6/29/1998	YES	TURBINES, COMBUSTION MODEL V84.3A, 2 SIEMES	2,080	DRY LOW NOX BURNER WITH SCR	6.0	BACT-PSD
HERMISTON POWER PARTNERSHIP	OREGON	4/13/1999	?	(2) TURBINE	1,853	SCR	6.0	OTHER
EXXON-MOBIL BEAUMONT REFINERY	BEAUMONT, TX	3/14/2000	?	(3) COMBUSTION TURBINES W/ DUCT BURN 61STK001-003	1,464	SCR AND DLN BURNERS	6.0	BACT-OTHER
PASADENA 2 POWER FACILITY	TEXAS	9/30/1998	?	TURBINE/HRSG (CG-3)	1,280	SCR, DLN COMBUSTORS	6.0	LAER
				TURBINE/HRSG (CG-2)	1,280		9.0	
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	STEAM/WATER INJECTION AND SCR	7.0	BACT-PSD
LAKELAND C.D. MCINTOSH POWER PLANT	LAKELAND, FL	1999	YES	(1) COMBINED CYCLE GAS TURBINE	2,407	SCR	7.5	BACT
BASF CORPORATION	GEISMAR, LA	12/30/1997	?	(2) TURBINE, COGEN UNIT GE FRAME 6	339	STEAM INJECTION AND SCR	8.0	BACT-PSD
LAKEWOOD COGENERATION, L.P.	LAKEWOOD TWP, NJ	4/1/1991	YES	TURBINES (NATURAL GAS) (2)	1190	SCR, DRY LOW NOX BURNER	8.9	BACT-OTHER
DOSWELL LIMITED PARTNERSHIP	VA	5/4/1990	YES	TURBINE, COMBUSTION	1261	DRY COMBUSTOR TO 25 PPM SCR TO 9 PPM USING NAT GAS	9.0	OTHER
DUKE ENERGY NEW SOMYRNA BEACH POWER CO. LP	FL	10/15/1999	NO	TURBINE-GAS, COMBINED CYCLE	4,000	DLN GE DLN2.6 BURNERS	9.0	BACT-PSD
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	YES	COMBUSTION TURBINE (2), NATURAL GAS	928	SCR	9.0	BACT-PSD
NARRAGANSETT ELECTRIC/NEW ENGLAND POWER CO.	PROVIDENCE, RI	4/13/1992	YES	TURBINE, GAS AND DUCT BURNER	1,360	SCR	9.0	BACT-PSD
PASNY/HOLTSVILLE COMBINED CYCLE PLANT	HOLTSVILLE, NY	9/1/1992	YES	TURBINE, COMBUSTION GAS (150 MW)	1,146	DRY LOW NOX	9.0	BACT-OTHER
SARANAC ENERGY COMPANY	PLATTSBURGH, NY	7/31/1992	YES	TURBINES, COMBUSTION (2) (NATURAL GAS)	1,123	SCR	9.0	BACT-OTHER
SELKIRK COGENERATION PARTNERS, L.P.	SELKIRK, NY	6/18/1992	YES	COMBUSTION TURBINES (2) (252 MW)	1,173	STEAM INJECTION AND SCR	9.0	BACT-OTHER
GENERAL ELECTRIC PLASTICS	BURKVILLE, AL	5/27/1998	?	TURBINE & DUCT BURNER COMBINED CYCLE	1,200	DLN BURNER ON TURBINE AND LNB ON DUCT BURNER	9.0	BACT-PSD
DUKE ENERGY NEW SMYRNA BEACH POWER CO. LP	NEW SMYRNA BEACH, FL	10/15/1999	?	(2) TURBINE, COMBINED CYCLE	2,000	DLN GE DLN2.6 BURNERS	9.0	BACT-PSD
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	DLN 2.6 GE ADVANCED DLN BURNERS	9.0	BACT-PSD
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	YES	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,083	DLN TECHNOLOGY AND WET INJECTION	9.0	BACT-PSD
DUKE ENERGY, VIGO LLC	WEST TERRE HAUTE, IN	6/6/2001	YES	(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,945	SCR	9.0	BACT-PSD
FORMOSA PLASTICS CORPORATION, LOUISIANA	BATON ROUGE, LA	3/2/1995	?	TURBINE/HRSG, GAS COGENERATION	450	DLN BURNER/COMBUSTION DESIGN AND CONTROL	9.0	LAER
FORMOSA PLASTICS CORP. BATON ROUGE PLANT	BATON ROUGE, LA	3/7/1997	YES	TURBINE/HSRG, GAS COGENERATION	450	DLN BURNER/COMBUSTION DESIGN AND CONSTRUCTION	9.0	BACT-PSD
CARVILLE ENERGY CENTER	LOUISIANA	12/9/1999	?	(2) GAS TURBINES	1,908	DLN COMBUSTORS AND BURNERS	9.0	BACT-PSD
SHELL CHEMICAL COMPANY - GEISMAR PLANT	GEISMAR, LA	5/10/2000	?	(2) COGENERATION UNITS COMBINED CYCLE	320	SCR	9.0	BACT-PSD
CARVILLE ENERGY CENTER	NORTHBROOK, IL	5/16/2001	?	(2) GAS TURBINES (1-98A, 2-98A)	1,908	DLN COMBUSTOR AND BURNERS	9.0	BACT-PSD
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	9.0	OTHER
CHAMPION INTL CORP. & CHAMP. CLEAN ENERGY	BUCKSPORT, ME	9/14/1998	?	TURBINE, COMBINED CYCLE	1,400	DLN BURNER	9.0	BACT-OTHER
BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/25/1997	?	(3) TURBINE, EMISSION POINTS AA-001, 002, 003	2,248	SCR	9.0	BACT-PSD
NORTON ENERGY STORAGE, LLC	OHIO	5/23/2002	YES	(9) COMBUSTION TURBINES COMB CYCLE W/ & W/O DB	2,400	SCR AND DLN BURNERS	9.0	BACT-PSD
MCCLAIN ENERGY FACILITY	OKLAHOMA	1/19/2000	?	COMBUSTION TURBINES W/ NON-FIRED HEAT RECOVERY	1,360	DLN COMBUSTORS	9.0	BACT-PSD
ONETA GENERATING STA	OKLAHOMA	1/21/2000	?	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	DLN COMBUSTOR	9.0	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	DLN BURNERS	9.0	BACT-PSD
SANTEE COOPER RAINEY GENERATION STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINES, COMBINED CYCLE	1,360	DLN BURNER WITH NATURAL GAS	9.0	BACT-PSD
MAGIC VALLEY GENERATION STATION	TEXAS	12/31/1998	NO	(2) TURBINE/HRSG CTG-1 & CTG-2	1,920	SCR ON TURBINES & DBS AND DRY LNB'S ON TURBINES	9.0	BACT-PSD
PALESTINE ENERGY FACILITY	PALESTINE, TX	12/13/2000	NO	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	SCR	9.0	BACT-PSD
BELL ENERGY FACILITY	TEMPLE, TX	6/26/2001	NO	(2) GAS TURBINES (HRSG-1 AND HRSG-2)	1,400	LOW NOX COMBUSTORS, SCR	9.0	BACT-PSD
WISE COUNTY POWER	HOUSTON, TX	7/14/2000	NO	(2) COMBUSTION TURBINES STACK 1 & 2	1,840	SCR	9.0	BACT-PSD
KAUFMAN COGEN LP	TEXAS	1/31/2000	NO	(2) GAS TURBINES HRSG-1 & 2	1,440	NONE INDICATED	9.0	BACT-PSD
VH BRAUNIG A VON ROSENBERG PLANT	SAN ANTONIO, TX	10/14/1998	NO	(2) COMBUSTION TURBINES & HRSG W/ DUCT BURN E5&6	1,488	SCR	9.0	NSPS
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	NO	(4) TURBINES GT-HRSG 1-4 W/ AND W/O DB	2,000	DLN BURNERS	9.0	BACT-PSD
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	NO	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	3,228	SCR	9.0	NSPS
JACK COUNTY POWER PLANT	HOUSTON, TX	3/14/2000	NO	GE-7241FA TURBINES, HRSG-1&-2	2,080	DLN COMBUSTORS	9.0	BACT-PSD
ENNIS TRACTEBEL POWER	ENNIS, TX	1/31/2002	NO	COMBUSTION TURBINE W/HRSG	2,800	NONE INDICATED	9.0	BACT-OTHER
WEATHERFORD ELECTRIC GENERATION FACILITY	TEXAS	3/11/2002	NO	(2) GE7121EA GAS TURBINES	1,079	NONE INDICATED	9.0	NSPS
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	DLN COMBUSTION DESIGN	9.0	BACT-PSD
				TURBINE, COMBINED CYCLE DUCT BURNER	1,488		9.4	
GATEWAY POWER PROJECT	TEXAS	3/20/2000	?	(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3)	1,440	DLN BURNERS	9.0	BACT-PSD
				(3) COMBUSTION TURBINES W/O DB, W/ STEAM INJECTION	1,440		12.0	
				(3) COMBUSTION TURBINES & DUCTBURNERS CTG (1), (2), (3)	1,360		13.4	
BASTROP CLEAN ENERGY CENTER		3/21/2000	NO	(2) COMBUSTION TURBINE GENERATORS ONLY	1,288	LNB, FIRING ONLY NAT GAS	9.0	BACT-PSD
				(2) TURBINES AND DUCT BURNERS COMBINED	1,288		12.6	
PARIS GENERATING STATION	DALLAS, TX	10/28/1998	?	(4) GAS TURBINES GE7241FA GT-HRSG#1-#4	1,360	DLN COMBUSTORS	9.0	BACT-PSD
				(4) GAS TURBINES W/ DUCT BURNERSGT-HRSG#1-#4	2,000		13.0	
GUADALUPE GENERATING STATION	TEXAS	2/15/1999	?	(4) TURBINES - ONLY CTG-1 TO 4	1,360	DLN BURNERS	9.0	BACT-PSD
				(4) TURBINES W/ DUCT BURNERS CTG-1 TO 4	2,000		13.0	
FORNEY PLANT	HOUSTON, TX	3/6/2000	NO	(6) TURBINES	1,358	DLN COMBUSTORS	9.0	BACT-PSD
				(6) COMBINED TURBINE & DUCT BURNER	1,358		13.4	
UCC SEADRIFT OPERATIONS	PORT LAVACA, TX	10/20/1999	?	COGEN STACK TURBINE ONLY	310	DLN BURNERS	9.0	BACT-PSD
				COGEN STACK COMBINED GT/HRSG&DB 1180	310		14.0	
REDBUD POWER PLT	TULSA, OK	8/15/2001	?	(4) TURBINE, COMBINED CYCLE	1,698	DLN COMBUSTORS	9.0	BACT-PSD
				(4) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	1,698		15.0	
THUNDERBIRD POWER PLT	TULSA, OK	5/17/2001	?	(3) TURBINES, COMBINED CYCLE, W/O DUCT FIRING	1,698	DLN COMBUSTION	9.0	BACT-PSD
				(3) TURBINES, COMBINED CYCLE, W/ DUCT FIRING	1,698		15.0	
(PCLP)	MAYS LANDING, NJ	9/19/1995	?	TURBINE WITH DUCT BURNER	1,048	SCR, WATER INJECTION	9.0	BACT-PSD
				COMBUSTION TURBINE, W/O DUCT BURNER	908		24.5	
KM POWER COMPANY	FORT LUPTON, CO., MI	6/26/2000	YES	TURBINE, GE 7EA FRAME COMBINED CYCLE	896	DLN COMBUSTION (DLN MODE)	9.0	BACT-PSD
				(6) TURBINE GE LM 6000 COMBINED CYCLE	416		25.0	
WEST CAMPUS COGENERATION COMPANY	HOUSTON, TX	5/2/1994	NO	(2) GAS TURBINES UNITS 1 & 2 W/O DUCT BURNER	602	INTERNAL COMBUSTION CONTROLS	11.2	BACT-OTHER
				(2) GAS TURBINES UNITS 1 & 2 W/ DUCT BURNER	602		21.7	
PERRYVILLE	ALEXANDRIA, LA	8/25/2000	?	(4) COMBINED CYCLE GENERATION UNIT	1,464	LNB, SCR	11.6	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE, INC.	PRYOR, OK	3/24/1999		ELECTRIC GENERATION, TURBINE, NATURAL GAS	4,240	DRY LOW NOX COMBUSTOR	12.0	BACT-PSD
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	DLN COMBUSTORS	12.0	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	LOW NOX BURNER AND SELECTIVE CATALYTIC REDUCTION	2.0	BACT/LAER
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	DLN BURNERS VERSION 2.6 BY GE	12.0	BACT-OTHER
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	YES	(2) COMBUSTION TURBINES COMBINED CYCLE	1,783	DLN BURNERS WITH SCR	12.0	BACT-PSD
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	(2) GE-7241FA TURBINES HRSG-1 & -2	1,400	DLN BURNERS	12.0	BACT-PSD
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1, 2, 3	3,168	DLN BURNERS	12.2	BACT-PSD
HORSESHOE ENERGY PROJECT	OKLAHOMA	2/12/2002	?	TURBINES AND DUCT BURNERS	2,480	SCR	12.5	BACT-PSD
RIO NOGALES POWER PROJECT	TEXAS	12/3/1999	?	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	DLN BURNERS USE OF STEAM INJECTION AS NECESSARY	12.8	BACT-PSD
AUBURNDALE POWER PARTNERS, LP	FL	12/14/1992		TURBINE,GAS	1,214	DRY LOW NOX COMBUSTOR	15.0	BACT-PSD
TIGER BAY LP	FL	5/17/1993		TURBINE, GAS	1,615	DRY LOW NOX COMBUSTOR	15.0	BACT-PSD
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION (ABB OR GE)	600	DLN BURNER	15.0	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	DRY LNB STAGED COMBUSTION	15.0	BACT-PSD
PSO NORTHEASTERN POWER STA	OKLAHOMA	10/18/1999	?	(2) TURBINES, COMBINED CYCLE	1,280	DLN COMBUSTOR	15.0	BACT-PSD
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CITY, OK	8/16/2001	?	(4) TURBINES, COMBINED CYCLE	1,372	LNB	15.0	BACT-PSD
FLEETWOOD COGENERATION ASSOCIATES	FLEETWOOD, PA	4/22/1994	?	NG TURBINE (GE LM6000) WITH WASTE HEAT BOILER	360	SCR WITH LOW NOX COMBUSTORS	15.0	BACT-OTHER
EDINBURG ENERGY LIMITED PARTNERSHIP	HOUSTON, TX	1/8/2002	NO	(4) COMBINED CYCLE GAS TURBINE ABB MODEL GT24	1,440	NONE INDICATED	15.0	BACT-PSD
FREEPORT COGENERATION FACILITY	FREEPORT, TX	6/26/1998	?	TURBINE/HRSG W/ AND W/O DUCT BURNER FIRING	672	DLN BURNERS	15.0	BACT-OTHER
PLANT NO. 2	LUBBOCK, TX	1/8/1999	?	(2) TURBINE/DUCT BURNER STGT1 & T2	336	LOW NOX COMBUSTORS, WATER INJECTION & SCR	15.0	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE II SHORT-TERM, W/O DUCT BURNER	400	LNB	15.0	BACT-PSD
				UNIT NO. 9 CASE III SHORT-TERM, W/ DUCT BURNER	400		15.8	
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464	DLN COMBUSTORS FOR TURBINE AND DUCT BURNER	15.0	BACT-PSD
				(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464		16.7	
GREGORY POWER FACILITY	TEXAS	6/16/1999	NO	(2) COMBUSTION TURBINES NO DUCT BURN EPN 101&102	1,480	DLN BURNERS	15.0	BACT-PSD
				(2) COMBUSTION TURBINES W/DUCT BURN EPN101&102	1,480		16.8	
ROCHE VITAMINS	BELVIDERE, NJ	10/8/1997	?	COMBUSTION TURBINE	457	LNB	15.0	BACT-PSD
				COMBUSTION TURBINE W/ DUCT BURNER	623		19.0	
SWEEY COGENERATION FACILITY	DALLAS, TX	9/30/1998	NO	(4) GAS TURBINE/HRSG 1-4, EPN1-4	970	DLN BURNERS	15.0	BACT-OTHER
				(4) GAS TURBINE/HRSG 1-4, EPN1-4, W/ DUCT BURNER	970		25.0	
COLORADO SPRINGS UTILITIES	FOUNTAIN, CO	4/19/1999	YES	TURBINE, COMBINED (70%-100% LOAD)	264	DLN COMBUSTION, < 70% LOAD OPERATION IS MINIMIZED	15.0	BACT-PSD
				TURBINE, COMBINED (<70% LOAD)	264		65.0	
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	CASE I: TURBINE E-1 W/O HRSG	720	NONE INDICATED	15.0	NSPS
				CASE I: TURBINE E-2 W/O HRSG	720		15.0	
				CASE II: TURBINE E-1 W/ HRSG	720		85.4	
				CASE II: TURBINE E-2 W/ HRSG	720		74.5	
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	?	(3) 501F TURBINES WITH HRSG	1,967	SCR	15.3	BACT-PSD
STAR ENTERPRISE	DELAWARE CITY, DE	3/30/1998	YES	(2) TURBINES, COMBINED CYCLE	827	NITROGEN INJECTION WHILE FIRING GAS	16.0	LAER
PUBLIC SERVICE OF COLO.-FORT ST VRAIN	PLATTEVILLE, CO	5/1/1996	YES	(2) COMBINED CYCLE TURBINES	1,884	DLN COMBUSTION FOR TURBINES AND DUCT BURNERS	17.0	BACT-PSD
MANSFIELD MILL	MANSFIELD, LA	8/14/2001	?	GAS TURBINE/HRSG	654	DLN BURNER	21.7	BACT-PSD
PLAQUEMINE COGENERATION FACILITY	IBERVILLE, LA	7/23/2008		(4) GAS TURBINES/DUCT BURNERS	2,876	DLN, SCR	22.6	BACT/LAER
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	1,515	SCR	23.0	BACT-PSD
MEAD COATED BOARD, INC.	PHENIX CITY, AL	3/12/1997	?	COMBINED CYCLE TURBINE (25 MW)	568	DLN COMBUSTOR DESIGN	25.0	BACT-PSD
WRIGHTSVILLE POWER FACILITY	WRIGHTSVILLE, AR	2/28/2000	?	(6)TURBINE, COMBUSTION GE LM6000	368	STEAM INJECTION	25.0	BACT-PSD
KENTUCKY PIONEER ENERGY, LLC - TRAPP	KENTUCKY	6/7/2001	?	(2) TURBINES, COMBINED CYCLE	1,765	STEAM INJECTION	25.0	BACT-PSD
INTERNATIONAL PAPER	MANSFIELD, LA	2/24/1994	?	TURBINE/HRSG, GAS COGEN	338	DLN COMBUSTOR/COMBUSTION CONTROL	25.0	BACT-OTHER
PINE STATE POWER"	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINES #1 & #2	1,127	WI "QUIET COMBUSTOR" MULTI FUEL NOZZLE CAP ; LNB DB	25.0	BACT-PSD
MIDLAND COGENERATION (MCV)	MIDLAND, MI	4/21/2003	NO	TURBINE, COMBINED CYCLE	984	LNB	25.0	BACT-PSD
LIMA ENERGY COMPANY	CINCINNATI	3/26/2002	?	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	DILUTION PRIOR TO COMB & DILUTION INJ. IN COMB ZONE	25.0	BACT-PSD
MUSTANG ENERGY PROJECT	OKLAHOMA	2/12/2002	?	COMBUSTION TURBINES W/ DUCT BURNERS	2,480	SCR	25.0	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	360	WATER/STEAM INJECTION, COMBUSTION MODIFICATION	25.0	BACT-PSD
SWEEY COGENERATION LIMITED PARTNERS	DALLAS, TX	9/9/1996	?	(3) COMBINED CYCLE TURBINES	970	DLN BURNERS	25.0	BACT-OTHER
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	NEW GAS TURBINE PHASE 3 ONLYSTK-701	1,360	DLN BURNERS	25.0	RACT
TEXAS CITY OPERATIONS	TEXAS CITY, TX	1/23/2003	?	(4) GAS TURBINES & WHB - COMBINED	114	LOW NOX COMBUSTORS	25.0	BACT-OTHER
SUNLAW COGEN. (FEDERAL COLD STORAGE COGEN)	VERNON, CA	1/15/1994	?	TURBINE, COMBINED CYCLE AND COGEN	224	WI AND SCONOX (MOD 2) CATALYST SYSTEM AFTERHRSG	25.8	BACT-OTHER
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	STACK EMISSIONS (TURBINE & DUCT BURNER)	610	WATER INJECTION	36.0	BACT-OTHER
MCWILLIAMS PLANT	ANDALUSIA, AL	4/14/1995	YES	TURBINE COMBINED CYCLE UNIT	848	LNB W/ STEAM INJECTION	42.0	BACT-PSD
MIDLAND COGENERATION (MCV)	MIDLAND, MI	4/21/2003	NO	(11) TURBINE, COMBINED CYCLE	984	EXISTING STEAM INJECTION	42.0	BACT-PSD
LEDERLE LABORATORIES	PEARL RIVER, NY	9/15/1994	?	(2) GAS TURBINES (EP #S 00101&102)	110	STEAM INJECTION	42.0	BACT-PSD
BORDEN CHEMICALS AND PLASTICS	GEISMAR, LA	5/29/2001	?	COGEN II	471	STEAM INJECTION	51.0	BACT-PSD
BORDEN CHEMICALS AND PLASTICS OPERATING, LP	GEISMAR, LA	5/29/2001	?	COGEN III UNIT	473	STEAM INJECTION	62.0	RACT
HOFFMAN-LA ROCHE, NUTLEY COGEN FACILITY	NUTLEY, NJ	5/8/1995	YES	TURBINE, GM LM500	87	NONE INDICATED	92.1	RACT
GULF STATES UTILITIES COMPANY - LOUISIANA STA	BATON ROUGE, LA	2/7/1996	?	NO.4 TURBINE/HRSG	1,573	NONE INDICATED	100.0	OTHER
SC ELECTRIC AND GAS COMPANY - URQUHART STATION	COLUMBIA, SC	9/22/2000	?	(2) TURBINES, COMBINED CYCLE	1,795	CEM, DLN COMBUSTORS AND GCP	102.0	BACT-PSD

SCR = SELECTIVE CATALYTIC REDUCTION, GCP = GOOD COMBUSTION PRACTICES, CEMS, CONTINUOUS EMISSION MONITOR, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	2,142	CO CATALYST	0.9	BACT
VIRGINIA ELECTRIC AND POWER COMPANY	WARREN COUNTY, VA	12/17/2010	NO	(3) COMBINED CYCLE TURBINE GENERATORS W/ HRSG & DUCT BURNERS	2,996	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST.	1.5 w/out DB	BACT-PSD
CPV WARREN, LLC	FRONT ROYAL, VA	7/30/2004	NO	(2) COMBINED CYCLE TURBINES, GE 7FA	1,717	OXIDATION CATALYST AND GCP	2.4 w/ DB	BACT
				(2) COMBINED CYCLE TURBINES W/ POWER AUGMENTATION, GE 7FA	1,717		1.8	
				(2) COMBINED CYCLE TURBINES W/ DUCT BURNER, GE 7FA	2,217		2.5	
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	YES	(4) COMBINED CYCLE TURBINES	2,000	OXIDATION CATALYST	1.5	LAER
SOUTHERN COMPANY/GEORGIA POWER	COBB COUNTY, GA			COMBINED CYCLE COMBUSTION TURBINE, NG with Fuel oil backup	2032	OXIDATION CATALYST	9.0	BACT
		1/7/2008	NO	COMBINED CYCLE COMBUSTION TURBINE, NG only	2032	OXIDATION CATALYST	1.8	BACT
PATILLO BRANCH POWER COMPANY LLC	FANNIN, TX	6/17/2009	NO	ELECTRICITY GENERATION	2800	OXIDATION CATALYST	2.0	BACT
BP CHERRY POINT COGENERATION PROJECT	WHATCOM CO., WA	1/11/2005	?	GE 7FA COMBUSTION TURBINE	1,392	LEAN PRE-MIX CT BURNER & OXIDATION CATALYST	2.3	BACT-PSD
LANGLEY GULCH POWER PLANT	PAYETTE, ID	6/25/2010	?	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	OXIDATION CATALYST AND GCP	2.0	BACT/LAER
KING POWER STATION	HARRIS, TX	8/5/2010	NO	TURBINE	2,700	OXIDATION CATALYST AND GCP	2.0	BACT/LAER
WANAPA ENERGY CENTER	UMATILLA, OR	8/8/2005	?	COMBUSTION TURBINE & HEAT RECOVERY STEAM GENERATOR	2384.1	OXIDATION CATALYST	2.0	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,676	OXIDATION CATALYST	2.0	BACT
LAKELAND C.D. MCINTOSH POWER PLANT	LAKELAND, FL	1999	YES	(1) COMBINED CYCLE GAS TURBINE	2,407	OXIDATION CATALYST	2.0	BACT
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	NO	(2) COMBINED CYCLE TURBINES	2,160	OXIDATION CATALYST AND EFFICIENT COMBUSTION	2.0	BACT
KEYSPAN SPAGNOLI ROAD ENERGY CENTER	MELVILLE, NY	4/30/2003	NO	(1) COMBINED CYCLE COMBUSTION TURBINE	1,788	CATALYTIC REDUCTION	2.0	OTHER
TRANS GAS ENERGY SYSTEMS	BROOKLYN, NY	8/4/2003	NO	(4) COMBUSTION TURBINES	2,200	OXIDATION CATALYST	2.0	BACT
BP CHERRY POINT COGENERATION	WHATCOM CO., WA	3/1/2004	NO	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	OXIDATION CATALYST	2.0	BACT
AUGUSTA ENERGY CENTER	AUGUSTA, GA	10/28/2001	?	(3) TURBINE, COMBINED CYCLE	2,000	CATALYTIC OXIDATION	2.0	BACT-PSD
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE, DUCT BURNER	1,902	CATALYTIC OXIDATION	2.0	BACT-PSD
WANSLEY COMBINED CYCLE ENERGY FACILITY	ROOPVILLE	1/15/2002	?	(2) TURBINE, COMBINED CYCLE	1,336	GCP	2.0	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,097	OXIDATION CATALYST AND GCP	2.0	BACT-PSD
CABOT POWER CORPORATION	EVERETT, MA	5/7/2000	?	TURBINE, COMBINED CYCLE	2,493	OXIDATION CATALYST	2.0	BACT-PSD
SATHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	?	(2) TURBINE, COMBINED CYCLE	2,493	OXIDATION CATALYST	2.0	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	?	(3) COMBINED CYCLE TURBINE W/ AND W/O DB	2,964	CO CATALYST	2.0	OTHER
COB ENERGY FACILITY, LLC	OREGON	12/30/2003	?	(4) TURBINE, COMBINED CYCLE DUCT BURNER	2,300	CATALYTIC OXIDATION	2.0	BACT-PSD
UMATILLA GENERATING COMPANY, L.P.	OREGON	5/11/2004	?	(2) TURBINE, COMBINED CYCLE & DUCT BURNER	2,007	CATALYTIC OXIDATION	2.0	BACT-OTHER
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	OXIDATION CATALYST	2.0	BACT-OTHER
WALLULA POWER PLANT	WASHINGTON	1/3/2003	NO	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	OXIDATION CATALYST	2.0	BACT-OTHER
GOLDENDALE ENERGY PROJECT	KIRKLAND, WA	2/23/2001	?	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	OXIDATION CATALYST	2.0	BACT
LIVE OAKS COMPANY, LLC	GLYNN, GA	4/8/2010	?	(1) COMBINED CYCLE COMBUSTION TURBINE, ELECTRIC GENERATING PLANT	4,800	GOOD COMBUSTION PRACTICES AND CATALYTIC OXIDATION	2.0	BACT
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	?	COMBUSTION TURBINE, COMBINED CYCLE W/ DUCT BURNER	2375.28	CATALYTIC OXIDATION (CATOX), DLN, GCP	2.0	BACT
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	4/17/2003	NO	(2) TURBINES, COMBINED CYCLE	2,640	OXIDATION CATALYST	2.0	BACT-PSD
Mirant Bowline, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	1,815	CO CATALYST AND EFFICIENT COMBUSTION TECHNIQUES	2.0	BACT
				(3) COMBINED CYCLE TURBINES	2,049		2.8	
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	?	(2) TURBINE, COMBINED CYCLE	1,360	CATALYTIC OXIDIZER	2.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE & DUCT BURNER	1,955		2.0	
Kespan Ravenswood Generating Station	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	OXIDATION CATALYST	3.0	OTHER
				(1) COMBINED CYCLE COMBUSTION TURBINE, W/ DUCT BURNER	2,423		3.9	
ComEd East River Repowering Project	NEW YORK, NY	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	OXIDATION CATALYST	2.0	LAER
				(2) COMBUSTION TURBINES, W/ DUCT BURNER	3,165		4.0	
LAWRENCE ENERGY	OHIO	9/24/2002	YES	(3) TURBINES, COMBINED CYCLE DUCT BURNERS OFF	1,440	GCP AND OXIDATION CATALYST	2.0	BACT-PSD
				(3) TURBINES, COMBINED CYCLE DUCT BURNERS ON	1,440		10.0	
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	?	TURBINE, COMBUSTION ABB GT11N2	1,327	DLN COMBUSTION TECHNOLOGY	2.0	BACT-PSD
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	?	(3) COMBUSTION TURBINE W/O DUCT BURNER	2,181	OXIDATION CATALYST	2.3	NSPS
				(3) COMBUSTION TURBINE W/O DUCT BURNER 75% LOAD	1,636		2.4	
				(3) COMBUSTION TURBINE W/O DUCT BURNER 60% LOAD	1,309		2.5	
				(3) COMBUSTION TURBINE W/ DUCT BURNER	2,181		3.1	
NYP&P Poletti Power Project	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	OXIDATION CATALYST	2.5	LAER
LSP- BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/13/2001	?	COMBINED CYCLE COMBUSTION TURBINE GENERATION	2,100	NONE INDICATED	2.5	BACT-PSD
CONECTIV BETHLEHEM, INC.	PENNSYLVANIA	1/16/2002	?	(6) TURBINE, COMBINED CYCLE	976	GCP	2.5	BACT-OTHER
El Paso Manatee Energy Center	MANATTE CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	OXIDATION CATALYST	2.5	BACT
				(1) COMBINED CYCLE GAS TURBINE, W/ POWER AUGMENTATION	1,742		4.0	
El Paso Belle Glade Energy Center	PALM BEACH CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	OXIDATION CATALYST	2.5	BACT
				(1) COMBINED CYCLE GAS TURBINE, W/ POWER AUGMENTATION	1,742		4.0	
PANDA GILA RIVER	GILA BEND, AZ	2/23/2001	YES	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	OXIDATION CATALYST	2.8	BACT-PSD
EL DORADO ENERGY, LLC	CLARK CO., NV	8/19/2004	?	(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN	1,900	OXIDATION CATALYST	2.6	LAER
				(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN, W/ DUCT BURNER	1,900		3.5	
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, COMBUSTION ABB GT-24 #1 & #2 WITH 2 CHILLERS (100% LOAD)	1,965	OXIDATION CATALYST	3.0	BACT-PSD
				(2) TURBINE, COMBUSTION ABB GT-24 #1&2 WITH 2 CHILLERS (50-99% LOAD)	1,965		11.8	
CALPINE CORP.	WELD, CO	5/2/2006	YES	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	2,400	GOOD COMBUSTION CONTROL PRACTICES AND CATALYTIC OXIDATION	3.0	BACT-PSD
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	NO	COMBINED CYCLE TURBINES	3,573	OXIDATION CATALYST AND GCP	3.0	BACT/LAER
Vineyard Energy Center, LLC	VINEYARD, UT	5/11/2004	NO	(3) SWPC 501F COMBUSTION TURBINES	1,738	OXIDATION CATALYST	3.0	BACT
Dome Valley Energy Partners, LLC	WELTON, AZ	8/10/2003	?	(2) COMBUSTION TURBINE W/ DUCT BURNER	2,480	OXIDATION CATALYST	3.0	BACT-OTHER
SALT RIVER PROJECT/SANTAN GEN. PLANT	PHOENIX, AZ	3/7/2003	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,400	CATALYTIC OXIDIZER	3.0	LAER
WYANDOTTIE ENERGY	WYANDOTTIE, MI	2/8/1999	YES	(2) TURBINE, COMBINED CYCLE POWER PLANT	2,000	CATALYTIC OXIDIZER	3.0	LAER
FAIRLESS ENERGY LLC	GLEN ALLEN, PA	3/28/2002	?	(4) TURBINES, COMBINED CYCLE	2,300	OXIDATION CATALYST	3.0	BACT-PSD
FAIRLESS WORKS ENERGY CTR (FORMER SWEC-FALLS TOWNSHIP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	OXIDATION CATALYST	3.0	LAER
SATSOP COMBUSTION TURBINE PROJECT	WASHINGTON	1/2/2003	NO	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	OXIDATION CATALYST	3.0	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	CATALYTIC OXIDIZER	3.0	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	?	(4) COMBUSTION TURBINE COMBINED CYCLE (50%-100% LOAD)	2,010	THE USE OF OXIDATION CATALYST SYSTEM	3.0	BACT-PSD
Lake Road Generating Company, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3 (100% LOAD)	2,181	OXIDATION CATALYST	3.0	BACT
				(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3 (75% LOAD)	2,181		4.0	
ANP Bellingham Energy Company	MARLBOROUGH, MA	8/4/1999	?	(2) TURBINES, COMBINED CYCLE ABB GT-24 (75%-100%) W/ STEAM INJECTION	1,815	OXIDATION CATALYST	3.0	BACT-PSD
				(2) TURBINES, COMBINED CYCLE ABB GT-24 (50%-75%)	1,361		4.0	
				(2) TURBINES, COMBINED CYCLE ABB GT-24 (<50%)	908		20.0	
ANP Blackstone Energy Company	MARLBOROUGH, MA	4/16/1999	?	(2) TURBINES, COMBINED CYCLE ABB GT-24 (75%-100%) W/ STEAM INJECTION	1,815	OXIDATION CATALYST	3.0	BACT-PSD
				(2) TURBINES, COMBINED CYCLE ABB GT-24 (50%-75%)	1,361		4.0	
				(2) TURBINES, COMBINED CYCLE ABB GT-24 (<50%)	908		20.0	
Brookhaven Energy, LP	YAPHANK, NY	7/18/2002	NO	(4) COMBINED CYCLE TURBINES, W/ STEAM INJECTION	1,897	OXIDATION CATALYST	3.0	OTHER
				(4) COMBINED CYCLE TURBINES, 75%-100%	1,897		3.0	
				(4) COMBINED CYCLE TURBINES, 50%-74%	1,404		20.0	
RENAISSANCE POWER LLC	MICHIGAN	6/7/2001	?	(3) TURBINES, STATIONARY GAS COMBINED CYCLE	1,360	GCP AND OXIDATION CATALYST	3.0	BACT-PSD
				(3) TURBINES, STATIONARY GAS COMBINED CYCLE, W/ POWER AUG.	1,360		5.0	
BLUE MOUNTAIN POWER, LP	RICHLAND, PA	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,224	OXIDATION CATALYST	3.1	OTHER
				COMBUSTION TURBINE W/ HEAT RECOVERY BOILER (75% LOAD)	1,224		22.1	

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	2,142	CO CATALYST	0.9	BACT
CPV CUNNINGHAM CREEK	SILVER SPRING, VA	9/6/2002	NO	(2) TURBINE, COMBINED CYCLE (70%-100%)	2,132	GCP	3.1	BACT-PSD
SIERRA PACIFIC POWER COMPANY	STOREY, NV	8/16/2005	NO	(2) TURBINE, COMBINED CYCLE (<70%)	1,492		16.0	
				TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG AND DUCT BURNER	2,448	OXIDATION CATALYST SYSTEM	3.5	BACT-PSD
				TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG AND DUCT BURNER	2,448	OXIDATION CATALYST	3.5	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE (75%-100%)	1,440	GOOD COMBUSTION AND OXIDATION CATALYST	3.5	BACT-PSD
				TURBINE, COMBINED CYCLE (50%-75%)	1,440		10.0	
BERKSHIRE POWER DEVELOPMENT, INC.	AGAWAM, MA	9/22/1997	?	TURBINE, COMBUSTION ABB GT24	1,792	DLN COMBUSTION TECHNOLOGY	3.6	BACT-PSD
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	1/28/2003	YES	(2) TURBINE, COMBINED CYCLE	2,200	CATALYTIC OXIDATION SYSTEM	3.6	BACT-PSD
				(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER, POWER AUG.	2,200		3.8	
KYRENE GENERATING STATION, SALT RIVER PROJECT	PHOENIX, AZ	3/14/2001	YES	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	OXIDATION CATALYST	3.9	LAER
CRESCENT CITY POWER, LLC	ORLENIS, LA	6/6/2005	YES	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	2,006	CO OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	4.0	BACT-PSD
CAITHNESS BLYTHIE II, LLC	RIVERSIDE, CA	4/25/2007	NO	520 MW NATURAL GAS-FIRED POWER PLANT	680	None	4.0	BACT-PSD
THOMAS C. FERGUSON POWER PLANT	LLANO, TX	9/1/2011	NO	NATURAL GAS FIRED TURBINES	1,560	OXIDATION CATALYST AND GCP	4.0	BACT/LAER
GILA BEND POWER GENERATING STATION	ARIZONA	5/15/2002	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	OXIDATION CATALYST	4.0	BACT-PSD
SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO, CA	9/1/2003	?	(2) GAS TURBINES	1,611	GOOD COMBUSTION CONTROL	4.0	LAER
SOUTH SHORE POWER LLC	BRIDGEMAN, MI	1/30/2003	?	(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,883	CATALYTIC OXIDATION AND USE OF GCP	4.0	BACT-PSD
MESQUITE GENERATING STATION	ARLINGTON, AZ	3/22/2001	?	TURBINE, COMBINED CYCLE	1,923	OXIDATION CATALYST	4.0	BACT-PSD
				TURBINE, COMBINED CYCLE W/ DUCT BURNER	1,923		4.1	
FLORIDA POWER AND LIGHT	DADE, FL	2/8/2005	NO	THE PROPOSED A-4 ON-1 COMBINED CYCLE UNIT 5, WHICH WILL CONSIST OF	1,360	CO WILL BE MINIMIZED BY THE EFFICIENT COMBUSTION OF NATURAL GAS AND DIST	4.1	BACT-PSD
PROGRESS ENERGY FLORIDA (PEF)	PINELLAS, FL	1/26/2007	NO	COMBINED CYCLE COMBUSTION TURBINE SYSTEM (4-ON-1)	493	GOOD COMBUSTION	4.1	BACT-PSD
FP&L Turkey Point Fossil Plant - Unit 5	HOMESTEAD, FL	6/1/2004	NO	(4) COMBUSTION TURBINE	1,608	GCP	4.1	BACT-OTHER
				(4) COMBUSTION TURBINE W/ DUCT BURNER	2,103		7.6	
				(4) COMBUSTION TURBINE W/ DUCT BURNER, W/ POWER AUG.	2,103		14.0	
PORT WESTWARD PLANT	PORTLAND, OR	1/16/2002	?	(2) COMBUSTION TURBINES WITH DUCT BURNER	2,600	CO CATALYST AND GCP	4.9	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	9/6/2002	?	(2) TURBINES, COMBINED CYCLE	1,338	COMBUSTION CATALYST	4.9	BACT-PSD
Towhrie Energy, LLC	OXFORD, CT	10/2/2002	?	(2) GE PT241 F41 COMBUSTION TURBINE	1,706	OXIDATION CATALYST	5.0	BACT-PSD
MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) GAS TURBINES WITH DUCT BURNERS	2,097	NONE INDICATED	5.0	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	2,400	NONE INDICATED	5.0	BACT-PSD
KALKASKA GENERATING, INC	RAPID RIVER TWP, MI	2/4/2003	?	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	OXIDATION CATALYST	5.0	BACT-PSD
KLAMATH GENERATION, LLC	PORTLAND, OR	3/12/2003	NO	(2) TURBINE, COMBINED CYCLE DUCT BURNER	1,920	CATALYTIC OXIDATION	5.0	BACT-PSD
DUKE ENERGY FAYETTE, LLC	MASONTOWN, PA	1/30/2002	?	(2) TURBINE, COMBINED CYCLE	2,240	OXIDATION CATALYST	5.0	BACT-PSD
CHAMBERS ENERGY L.P./JANP	SAN ANTONIO, TX	3/6/2000	NO	(8) ABB GT-24 COMBUSTION TURBINES	1,440	GCP/CO CATALYST OXIDATION CATALYST	5.0	BACT-PSD
WEST TEXAS ENERGY FACILITY	HOUSTON, TX	7/28/2000	NO	(2) GAS TURBINE W/ AND W/O POWER AUGMENTATION	1,903	GCP	5.0	BACT-PSD
INDECK-NILES, LLC	NILES, MI	12/2/2001	?	(4) GAS TURBINES COMBINED CYCLE	2,152	NONE INDICATED	5.0	BACT-PSD
				(4) GAS TURBINES COMBINED CYCLE W/ DUCT BURNER	2,152		7.5	
BERRIEN ENERGY, LLC	BENTON HARBOR, MI	10/10/2002	?	(3) TURBINE, COMBINED CYCLE W/O DUCT BURNER	1,650	CATALYTIC OXIDATION	5.0	BACT-PSD
				(3) TURBINE, COMBINED CYCLE AND DUCT BURNER	2,300		10.0	
				(3) TURBINE, COMBINED CYCLE AND DUCT BURNER, POWER AUG.	2,300		20.0	
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(6) GAS FUELED TURBINES, 1-6	2,133	GCP	25.0	BACT-PSD
				(6) GAS FUELED TURBINES, 1-6 W/STEAM INJECTION OR EVAP COOLING	2,133		5.0	
FREMONT ENERGY CENTER, LLC	OHIO	8/9/2001	YES	(2) COMBUSTION TURBINES COMB CYCLE W/O DUCT BURNER	1,440	OXIDATION CATALYST SYSTEM	5.0	BACT-PSD
				(2) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	1,440		25.0	
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,046	CATALYTIC OXIDATION	5.2	BACT-OTHER
CONTINENTAL ENERGY SVCS, SILVER BOW GEN	BUTTE, MT	6/7/2002	NO	(4) COMBINED CYCLE CT	1,400	NONE INDICATED	5.3	OTHER
GREATER DES MOINES ENERGY CENTER	PLEASANT HILL, IA	4/10/2002	YES	(2) COMBUSTION TURBINES - COMBINED CYCLE	1,400	CATALYTIC OXIDATION	5.4	BACT-OTHER
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, ABB	600	NONE INDICATED	5.6	BACT-OTHER
APS WEST PHOENIX	PHOENIX, AZ	5/26/2000	YES	(2) TURBINE, COMBINED CYCLE, DUCT BURNER CC4, CC5	2,600	OXIDATION CATALYST	6.0	BACT-PSD
MOUNTAINVIEW POWER	SAN BERNARDINO, CA	5/22/2001	YES	(4) TURBINE, COMBINED CYCLE	1,991	OXIDATION CATALYST	6.0	LAER
VALERO REFINING COMPANY	BENICIA, CA	1/11/2000	YES	(2) COMBUSTION TURBINE, COMBINED CYCLE	816	OXIDATION CATALYST	6.0	LAER
PSEG LAWRENCEBURG ENERGY FACILITY	LAWRENCEBURG, IN	6/7/2001	YES	(4) TURBINE, COMBINED CYCLE	477	GOOD COMBUSTION	6.0	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	INDIANA	12/7/2001	?	(2) COMBND CYCLE COMBUST. TURBINE WESTINGHOUSE 501F	2,071	GCP	6.0	BACT-PSD
LOWER MOUNT BETHEL ENERGY, LLC	FAIRFAX	10/20/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	OXIDATION CATALYST	6.0	LAER
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	OXIDATION CATALYST	6.0	BACT-PSD
DUKE ENERGY, VIGO LLC	WEST TERRE HAUTE, IN	6/6/2001	YES	(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,360	GOOD COMBUSTION	6.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,945		9.0	
COGENTRIX LAWRENCE CO., LLC	INDIANA	10/5/2001	?	(3) TURBINES, COMBINED CYCLE	1,944	GCP	6.0	BACT-PSD
				(3) TURBINES, COMBINED CYCLE & DUCT BURNERS	1,944		9.0	
DUKE ENERGY HANGING ROCK ENERGY	OHIO	12/13/2001	?	(4) TURBINES COMBINED CYCLE DUCT BURNERS OFF	1,376	NONE INDICATED	6.0	BACT-PSD
				(4) TURBINES COMBINED CYCLE DUCT BURNERS ON	1,376		9.0	
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURNER	1,374	NONE INDICATED	6.0	BACT-PSD
				(2) COMBUSTION TURBINE COMB. CYCLE W DUCT BURNER	1,374		13.5	
TPS - DELL, LLC	DELL, AR	8/8/2000	YES	(2) TURBINE	2,560	DLN/GOOD COMBUSTION	7.0	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	GOOD COMBUSTION DESIGN AND PRACTICES	7.4	BACT-PSD
FPL MANATEE PLANT - UNIT 3	PARRISH, FL	4/15/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	GOOD COMBUSTION DESIGN AND PRACTICES	7.4	BACT-PSD
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, NO DUCT BURNER FIRING	1,937	NONE INDICATED	7.4	BACT-PSD
				TURBINE, COMBINED CYCLE, DUCT BURNER	1,937		14.5	
TECO BAYSIDE POWER STATION	TAMPA, FL	3/30/2001	YES	(7) TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION DESIGN AND OPERATING PRACTICES	7.8	BACT-PSD
TECO BAYSIDE POWER STATION	TAMPA, FL	1/8/2002	?	(11) TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION DESIGN AND OPERATING PRACTICES	7.8	BACT-PSD
QUETA GENERATING STA	OKLAHOMA	1/21/2000	?	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION	7.8	BACT-PSD
FPL ENERGY MARCUS HOOK, L.P.	JUNO BEACH, FL	5/4/2003	?	(3) TURBINE, COMBINED CYCLE	1,798	GCP	7.8	BACT-PSD
				(3) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,191		13.4	
PROGRESS ENERGY	POLK, FL	6/8/2005	YES	COMBINED CYCLE POWER PLANT. THIS IS THE 4TH BLOCK OF POWER ADDED,	4,240	GOOD COMBUSTION	8.0	BACT-PSD
FLORIDA POWER AND LIGHT COMPANY	WEST PALM BEACH, FL	1/10/2007	NO	COMBINED CYCLE COMBUSTION GAS TURBINES - 6 UNITS	389	None	8.0	BACT-PSD
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,680	COMBUSTION CONTROLS	8.0	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,680	COMBUSTION CONTROLS	8.0	BACT-PSD
BLUEWATER ENERGY CENTER LLC	MICHIGAN	1/7/2003	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	CATALYTIC AFTERBURNER	8.0	BACT-PSD
El Paso Broward Energy Center	BROWARD CO., FL	2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	OXIDATION CATALYST	8.0	BACT
				(1) COMBINED CYCLE GAS TURBINE, W/ POWER AUGMENTATION	1,742		12.0	
EL PASO MERCHANT ENERGY CO.	MISSISSIPPI	6/24/2002	?	(2) TURBINE, COMBINED CYCLE W/O DUCT BURNER	1,737	GCP	8.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,062		13.8	
LIMERICK PARTNERS, LLC	LIMERICK, PA	4/9/2002	NO	(3) TURBINE, COMBINED CYCLE	1,467	OXIDATION CATALYST	8.1	BACT-PSD
GENOVA ARKANSAS I, LLC	ARKANSAS	8/23/2002	?	(2) TURBINE, COMBINED CYCLE (GE)	1,360	GCP	8.2	BACT-PSD
GENOVA OK I POWER PROJECT	OKLAHOMA	6/13/2002	?	GE COMBUSTION TURBINE & DUCT BURNERS	1,705	COMBUSTION CONTROL	8.2	BACT-PSD
				GE COMBUSTION TURBINE W/O DUCT BURNERS	1,705		11.4	
PANDA CULLODEN GENERATING STATION	CULLODEN, WV	12/18/2001	?	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	STATE OF THE ART COMBUSTER DESIGN AND GOOD OPERATING PRACTICES	8.2	BACT-PSD
				COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400		13.8	
BEATRICE POWER STATION	GAGE CO., NE	6/22/2004	NO	(2) COMBUSTION TURBINES W/ DUCT BURNER	1,000	NONE INDICATED	8.2	BACT-PSD
HENRY COUNTY POWER	VIRGINIA	11/21/2002	?	(4) TURBINE, COMBINED CYCLE W/ DUCT FIRING (70%-100%)	2,200	CLEAN FUEL, GOOD COMBUSTION AND DESIGN	8.5	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	2,142	CO CATALYST	0.9	BACT
MINNESOTA MUNICIPAL POWER AGENCY	RICE, MN	6/5/2007	NO	COMBINED CYCLE COMBUSTION TURBINE GENERATOR WITH 249 MMBTU/HR DUCT BURNER	1,758	GOOD COMBUSTION	9.0	BACT-PSD
ROCKY MOUNTAIN ENERGY CENTER, LLC	LITTLETON, CO	8/11/2002	YES	(2) COMBINED-CYCLE TURBINE	2,311	GOOD COMBUSTION CONTROL PRACTICES (PREVENTION) AND OXIDATION CATALYST	9.0	BACT-PSD
CPV GULF COAST POWER GENERATING	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,700	COMBUSTION CONTROLS	9.0	BACT-PSD
EFFINGHAM COUNTY POWER, LLC	GEORGIA	12/27/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	GCP	9.0	BACT-PSD
MIRANT SUGAR CREEK, LLC	WEST TERRE HAUTE, IN	5/9/2001	YES	TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION	9.0	BACT-PSD
CHAMPION INTERNATL CLEAN ENERGY	BUCKSPORT, ME	9/14/1998	?	TURBINE, COMBINED CYCLE	1,400	NONE INDICATED	9.0	BACT-OTHER
CAROLINA POWER AND LIGHT - RICHMOND CO	RALEIGH, NC	12/21/2000	?	(2) TURBINES, COMBINED CYCLE	1,628	COMBUSTION CONTROL	9.0	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,628	COMBUSTION CONTROL	9.0	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,384	COMBUSTION CONTROL	9.0	BACT-PSD
JACKSON COUNTY POWER, LLC	OHIO	12/27/2001	YES	(4) COMBUSTION TURBINES COMBINED CYCLE, W/ DUCT BURNER	2,440	GOOD COMBUSTION	9.0	BACT-PSD
SANTEE COOPER RAINY GEN STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINES, COMBINED CYCLE	1,360	COMBUSTION TECHNOLOGY/CLEAN FUELS	9.0	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	?	(4) GAS TURBINES TURBINE W/ AND W/O DUCT BURNER	1,384	LNB, GCP	9.0	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	NO	(4) TURBINE W/ AND W/O DUCT BURNERS GT-HRSG 1-4	2,000	GCP	9.0	BACT-PSD
ENNIS TRACTEBEL POWER	TEXAS	1/31/2003	NO	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	GCP & OXIDATION CATALYST SYSTEM	9.0	BACT-PSD
JAMES CITY ENERGY PARK	VIRGINIA	12/1/2003	?	TURBINE, COMBINED CYCLE	1,973	GCP	9.0	BACT-PSD
FORNEY PLANT	HOUSTON, TX	3/6/2000	NO	TURBINE, COMBINED CYCLE, DUCT BURNER	2,325		12.0	
				(6) TURBINES	1,358	GCP	9.0	BACT-PSD
				(6) COMBINED TURBINE & DUCT BURNER	1,358		13.7	
MIRANT SUGAR CREEK LLC	WEST TERRE HAUTE, IN	7/24/2002	?	(4) TURBINE, COMBINED CYCLE	1,491	GCP, NATURAL GAS AS FUEL	9.0	BACT-PSD
				TURBINE, COMBINED CYCLE AND DUCT BURNER	1,791		14.0	
GENPOWER EARLEYS, LLC	NORTH CAROLINA	1/9/2002	?	(2) TURBINES, COMBINED CYCLE	1,715	GCP AND DESIGN	9.0	BACT-PSD
				(2) TURBINES, COMBINED CYCLE DUCT BURNERS	1,985		14.0	
DUKE ENERGY WYTHE, LLC	VIRGINIA	2/5/2004	NO	(2) TURBINE, COMBINED CYCLE	1,827	GCP	9.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,470		14.6	
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/14/1999	NO	TURBINE, COMBINED CYCLE	1,488	COMB DESIGN & GOOD OPER PRACTICE: DLN COMBUSTION	9.0	BACT-PSD
				TURBINE, COMBINED CYCLE DUCT BURNER	1,488		15.0	
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	YES	(3) TURBINES, COMBINED CYCLE W/O DUCT FIRING	1,360	NONE INDICATED	9.0	BACT-PSD
				(3) TURBINES, COMBINED CYCLE W/ DUCT FIRING	1,360		15.0	
GATEWAY POWER PROJECT	TEXAS	3/20/2000	?	(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3)	1,440	GCP	9.0	BACT-PSD
				(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3) W/ STEAM INJECTION	1,440		15.0	
REDBUD POWER PLT	TULSA, OK	8/15/2001	?	(3) COMBUSTION TURBINES & DUCTBURNERS CTG (1), (2), (3)	1,360		16.3	
				(4) TURBINE, COMBINED CYCLE W/O DUCT BURNER	1,698	GCP	9.0	BACT-PSD
				(4) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	1,698		15.4	
THUNDERBIRD POWER PLT	TULSA, OK	5/17/2001	?	(3) TURBINES, COMBINED CYCLE, W/O DUCT FIRING	1,698	DLN COMBUSTORS, GCP	9.0	BACT-PSD
				(3) TURBINES, COMBINED CYCLE, W/ DUCT FIRING	1,698		15.4	
WHITING CLEAN ENERGY, INC.	WHITING, IN	7/20/2000	YES	(2) TURBINES, COMBUSTION	1,735	GCP	9.0	BACT-PSD
				(2) TURBINES, COMBUSTION W/DUCT BURNER	1,735		16.4	
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE	1,700	COMBUSTION CONTROLS	9.0	BACT-PSD
				COMBINED CYCLE COMBUSTION TURBINE, W/ POWER AUG.	1,700		20.0	
MIRANT GASTONIA POWER FACILITY	NORTH CAROLINA	5/28/2002	?	(4) TURBINES, COMBINED CYCLE GE	1,400	GCP	9.0	BACT-PSD
				(4) TURBINES, COMBINED CYCLE GE DUCT BURNERS	1,400		20.0	
BASTROP CLEAN ENERGY CENTER	BASTROP, TX	3/21/2000	NO	(2) COMBUSTION TURBINE GENERATORS ONLY	1,288	LNB	9.0	BACT-PSD
				(2) TURBINES AND DUCT BURNERS COMBINED	1,288		25.0	
NORTHERN STATES POWER CO. DBA XCEL ENERGY	RAMSEY, MN	8/12/2005	YES	2 COMBINED-CYCLE COMBUSTION TURBINES	2,640	GOOD COMBUSTION PRACTICES	10.0	BACT-PSD
NORTHERN STATES POWER CO. DBA XCEL ENERGY	RAMSEY, MN	5/16/2006	YES	TWO COMBUSTION TURBINES	1,885	GOOD COMBUSTION PRACTICES	10.0	BACT-PSD
SOUTHWEST ELECTRIC POWER COMPANY	SHREVEPORT, LA	3/20/2008	?	(2) COMBINED CYCLE GAS TURBINES	1,055	PROPER OPERATING PRACTICES	10.0	BACT-PSD
FAIRBUILT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,876	GCP	10.0	BACT-PSD
THOMAS B. FITZGHUGH GENERATING STATION	OZARK, AR	2/15/2002	YES	TURBINE, COMBINED CYCLE, SWPC 501D5A	1,365	GCP, DLN COMBUSTORS	10.0	BACT-PSD
HARQUAHALA GENERATING PROJECT	TONOPAH, AZ	2/15/2001	?	COMBINED CYCLE NATURAL GAS	2,362	OXIDATION CATALYST	10.0	BACT-OTHER
BEAR MOUNTAIN LIMITED*	BAKERSFIELD, CA	8/19/1994	?	TURBINE, GE COGENERATION 48 MW	384	OXIDATION CATALYST	10.0	BACT-OTHER
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	COMBUSTION DESIGN GCP	10.0	BACT-PSD
CLOVIS ENERGY FACILITY	NEW MEXICO	6/27/2002	?	(4) TURBINES, COMBINED CYCLE	1,515	GOOD COMBUSTOR DESIGN, ONLY "SWEET" NATURAL GAS	10.0	BACT-PSD
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	YES	(2) COMBUSTION TURBINES COMBINED CYCLE	1,783	COMBUSTION CONTROLS	10.0	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS	OKLAHOMA	12/10/2001	?	(2) TURBINES, COMBINED CYCLE	1,701	COMBUSTION CONTROL	10.0	BACT-PSD
CALPINE CONSTRUCTION FINANCE CO., LP	ONTELAUNEE TWP., PA	10/10/2000	?	TURBINE, COMBINED CYCLE	1,456	NONE INDICATED	10.0	BACT-OTHER
CALPINE BERKS ONTELAUNEE POWER PLANT	READING, PA	10/10/2000	?	(2) TURBINES, COMBINED CYCLE	2,176	CATALYTIC CONTROL	10.0	LAER
EDINBURG ENERGY LIMITED PARTNERSHIP	HOUSTON, TX	1/8/2002	NO	(4) COMBINED CYCLE GAS TURBINE ABB MODEL GT24	1,440	NONE INDICATED	10.0	BACT-PSD
SWEENEY COGENERATION FACILITY	DALLAS, TX	9/30/1998	NO	(4) GAS TURBINE/HRSG 1-4, EPN1-4, W/ AND W/O DUCT BURNER	970	PROPER COMBUSTION CONTROL	10.0	BACT-PSD
BAYTOWN COGENERATION PLANT	TEXAS	2/11/2000	?	(3) TURBINE/HRSGS CTG1-3	2,000	PROPER COMBUSTION	10.0	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE II SHORT-TERM, W/O DUCT BURNER	400	TURBINES OPERATE BASE LOAD AT LEAST 75% OF TIME	10.0	BACT-PSD
				UNIT NO. 9 CASE III SHORT-TERM, W/ DUCT BURNER	400		12.9	
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	YES	(2) TURBINE COMBINED CYCLE NO DUCT FIRING	1,360	NONE INDICATED	10.0	BACT-PSD
				(2) TURBINE COMBINED CYCLE DUCT FIRING	1,360		14.0	
MIRANT GASTONIA POWER FACILITY	NORTH CAROLINA	5/28/2002	?	(4) TURBINES, COMBINED CYCLE MHI/SW	1,400	GCP	10.0	BACT-PSD
				(4) TURBINES, COMBINED CYCLE MHI/SW @ 75% LOAD	1,400		15.0	
				(4) TURBINES, COMBINED CYCLE MHI/SW DUCT BURNERS	1,400		20.6	
KANSAS CITY POWER & LIGHT CO HAWTHORN	KANSAS CITY, MO	8/19/1999	YES	(2) TURBINE, COMBINED (70%-100% LOAD)	1,360	OXIDATION CATALYST	10.0	BACT-OTHER
				(2) TURBINE, COMBINED (>70% LOAD)	1,360		25.0	
GENOVA ARKANSAS I, LLC	ARKANSAS	8/23/2002	NO	(2) TURBINE, COMBINED CYCLE (MHI)	1,360	GCP/CO OXIDATION CATALYST	10.2	BACT-PSD
GENOVA OK I POWER PROJECT	OKLAHOMA	6/13/2002	?	MHI COMBUSTION TURBINE & DUCT BURNERS	1,767	CATALYTIC OXIDATION	10.2	BACT-PSD
SWEENEY COGENERATION LIMITED PARTNERS	DALLAS, TX	9/9/1996	?	(3) COMBINED CYCLE TURBINES	970	LNB	10.3	BACT-PSD
MIRANT AIRSIDE INDUSTRIAL PARK	VIRGINIA	12/6/2002	?	(2) TURBINE, COMBINED CYCLE	1,962	GCP	10.3	BACT-PSD
NORTON ENERGY STORAGE, LLC	OHIO	5/23/2002	YES	(9) COMBUSTION TURBINE COMB CYCLE W/O DUCT BURNER	2,400	NONE INDICATED	11.0	BACT-PSD
				(9) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	2,400		11.5	
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CITY, OK	8/16/2001	?	(4) TURBINES, COMBINED CYCLE	1,372	GOOD OPERATING PRACTICE	11.5	BACT-PSD
FORSYTH ENERGY PROJECTS, LLC	FORSYTH, NC	9/29/2005	YES	THREE COMBINED-CYCLE COMBUSTION TURBINE GENERATORS, EACH WITH A TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	1,844	GOOD COMBUSTION PRACTICES AND EFFICIENT PROCESS DESIGN	11.6	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE	1,844	GOOD COMBUSTION PRACTICES AND EFFICIENT PROCESS DESIGN	25.9	BACT-PSD
				(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,844	GCP AND EFFICIENT PROCESS DESIGN	11.6	BACT-PSD
HOT SPRINGS POWER PROJECT	ARKANSAS	11/9/2001	?	(2) COMBUSTION TURBINE, HRSG, DUCT BURNER	2,800	CATALYTIC OXIDIZER	12.0	BACT-PSD
DUKE ENERGY NEW SMYRNA BEACH POWER	NEW SMYRNA BEACH, FL	10/15/1999	?	(2) TURBINE, COMBINED CYCLE	2,000	GOOD COMBUSTION	12.0	BACT-PSD
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,820	GOOD COMBUSTION	12.0	BACT-PSD
MURRAY ENERGY FACILITY	DALTON, GA	10/23/2002	?	(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,450	GCP	12.0	BACT-PSD
MIDLAND COGENERATION (MCV)	MIDLAND, MI	4/21/2003	NO	(12) TURBINE, COMBINED CYCLE	984	GOOD COMBUSTION TECHNIQUES	12.0	BACT-PSD
PSO NORTHEASTERN POWER STA	OKLAHOMA	10/18/1999	?	(2) TURBINES, COMBINED CYCLE	1,280	NONE INDICATED	12.0	BACT-PSD
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES, COMBINED CYCLE	1,795	COMBUSTION CONTROLS	12.0	BACT-PSD
CANE ISLAND POWER PARK (KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE	1,696	GCP	12.0	BACT-PSD
				TURBINE, COMBINED CYCLE & DUCT BURNER	1,696		20.0	

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTUHR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE WITH 445 MMBTUHR NATURAL GAS DUCT BURNER	2,142	CO CATALYST	0.9	BACT
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	?	(3) 501F TURBINES WITH HRSG	1,967	NONE INDICATED	12.2	BACT-PSD
JEABRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	GOOD COMBUSTION	12.2	BACT-PSD
LIBERTY ELECTRIC POWER, LLC	PENNSYLVANIA	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	2,000	GCP	12.9	OTHER
PARIS GENERATING STATION	DALLAS, TX	10/28/1998	?	(4) GAS TURBINES GE7241FA GT-HRSG#1-#4	1,360	GCP	13.0	BACT-PSD
				(4) GAS TURBINES W/DUCT BURNERSGT-HRSG#1-#4	2,000		18.4	
TENASKA FRONTIER GENERATION STATION	TEXAS	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464	GCP	13.2	BACT-PSD
				(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464		20.2	
PANDA-BRANDYWINE	BRANDYWINE, MD	6/1/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	13.3	OTHER
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	DLN COMBUSTORS	13.3	BACT-PSD
GENPOWER KELLEY LLC	QUINTON, AL	1/12/2001	?	(4) TURBINE, COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	EFFICIENT COMBUSTION	13.4	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, NE	10/5/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/ DUCT FIRING	1,360	EFFICIENT COMBUSTION	13.4	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	GCP	13.4	BACT-PSD
PINNACLE WEST ENERGY CORP./REDHAWK GEN	PHOENIX, AZ	12/2/2000	YES	TURBINE, COMBINED CYCLE NO DUCT BURNER	1,400	GOOD COMBUSTION	14.0	BACT-PSD
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	1,515	OXIDATION CATALYST	14.0	BACT-PSD
RELIANT ENERGY HUNTERSTOWN, LLC	JOHNSTOWN, PA	6/15/2001	?	(3) COMBUSTION TURBINE COMBINED CYCLE	2,400	NONE INDICATED	14.0	LAER
RIO NOGALES POWER PROJECT	TEXAS	12/3/1999	?	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	GCP	14.4	BACT-PSD
INCO USA LLC	BRACORON, TX	8/29/2006	YES	COGENERATION TRARR 2 AND 3 (TURBINE AND DUCT BURNER EMISSIONS)	140	BP AMOCO PROPOSES PROPER COMBUSTION CONTROL	15.0	BACT-PSD
DUKE ENERGY DALE, LLC	ALABAMA	12/11/2001	?	(2) GE 7FA COMB. CYCLE W/DB	1,928	EFFICIENT COMBUSTION	15.0	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	ALABAMA	10/23/2001	?	(2) GE COM. CYCLE UNITS W/HRSG & 550 MMBTUHR DB	2,407	EFFICIENT COMBUSTION	15.0	BACT-PSD
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE COMBUSTION TURBINE UNITS	1,360	EFFICIENT COMBUSTION	15.0	BACT-PSD
RUMFORD POWER ASSOCIATES	RUMFORD, ME	5/1/1998	YES	TURBINE GENERATOR COMBUSTION	1,906	GE DLN COMBUSTOR DESIGN, GOOD COMBUSTION CONTROL	15.0	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	?	(2) TURBINE, COMBINED CYCLE	2,112	USING 15 % EXCESS AIR	15.0	BACT-PSD
MIDLAND COGENERATION	MIDLAND, MI	7/26/2001	?	(2) GAS TURBINE COMBINED CYCLE	2,096	NONE INDICATED	15.0	BACT-PSD
AES LONDONERRY, LLC	LONDONERRY, NH	4/26/2001	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 & #2	2,849	LN8 WITH GCP	15.0	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LN8 WITH GCP	15.0	BACT-PSD
KLAMATH FALLS COGENERATION FACILITY	PORTLAND, OR	1/27/1998	?	COMBUSTION TURBINE (1 OR 2)	1,700	GOOD COMBUSTION	15.0	BACT-PSD
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	(2) COMBUSTION TURBINES #1 & #2	1,836	NONE INDICATED	15.0	BACT-PSD
HERMISTON POWER PARTNERSHIP	OREGON	4/13/1999	?	(2) TURBINE	1,853	NONE INDICATED	15.0	NSPS
CHANNELVIEW COGENERATION FACILITY	HOUSTON, TX	12/9/1999	YES	(4) TURBINE COGENERATION FACILITY	1,600	PROPER COMBUSTION CONTROL	15.0	BACT-OTHER
PALESTINE ENERGY FACILITY	PALESTINE, TX	12/13/2000	NO	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	GCP	15.0	OTHER
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7.8.9	360	OXIDATION CATALYST	15.0	BACT-PSD
GUADALUPE GENERATING STATION	TEXAS	2/15/1999	?	(4) TURBINES - ONLY CTG-1 TO 4	1,360	GCP	15.0	BACT-PSD
				(4) TURBINES W/ DUCT BURNERS CTG-1 TO 4	2,000		16.0	
ROCHE VITAMINS	BELVIDERE, NJ	10/8/1997	?	COMBUSTION TURBINE	457	LN8	15.0	BACT-PSD
				COMBUSTION TURBINE W/ DUCT BURNER	623		20.0	
GEISMAR PLANT	GEISMAR, LA	2/26/2002	?	(2) COGENERATION UNITS POINT # 720-99 AND 721-99, W/O DUCT BURNER	320	GCP WITH NATURAL GAS AS FUEL	15.0	BACT-PSD
				(2) COGENERATION UNITS POINT # 720-99 AND 721-99, W/ DUCT BURNER	320		24.8	
Athens Generating Company, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	CLEAN BURNING FUELS AND EFFICIENT COMBUSTION TECHNIQUES	15.0	BACT
				(3) SWPC 510G COMBUSTION TURBINES (75% LOAD)	2,880		30.0	
SALT RIVER PROJECT/ DESERT BASIN GEN	PHOENIX, AZ	9/10/1999	YES	TURBINE, COMBINED CYCLE	2,320	GCP	15.3	BACT-PSD
				TURBINE, COMB'D CYCLE W/ DUCT BURNERS	2,320		24.0	
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	TURBINES E-1+E-2 W/O HRSG	720	NONE INDICATED	15.2	OTHER
				TURBINES E-1+E-2 W/ HRSG	720		31.7	
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	COMBUSTION DESIGN, GCP	16.0	BACT-PSD
ENERGETIX	COMANCHE, OK	12/12/2006	YES	COMBUSTION TURBINE AND DUCT BURNER	Not Reported	GOOD COMBUSTION PRACTICES	16.4	BACT-PSD
MEMPHIS GENERATION, LLC	MEMPHIS, TN	4/9/2001	NO	TURBINE, COMBINED CYCLE DUCT BURNER	1,698	NONE INDICATED	16.6	BACT-PSD
QUC STANTON ENERGY CENTER	PENNSACOLA	9/21/2001	YES	(2) TURBINE, COMBINED CYCLE	2,402	GOOD COMBUSTION	17.0	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING	RICHMOND, TX	12/31/2002	?	(4) HRSG/TURBINES 001.002.003.004	1,400	GOOD COMBUSTION CONTROLS	17.0	BACT-PSD
REDBUD POWER PLANT	LUTHER, OK	3/18/2002	?	(4) COMBUSTION TURBINE AND DUCT BURNERS	1,832	GCP/DESIGN	17.2	BACT-PSD
CALEDONIA POWER LLC	CALEDONIA, MS	3/27/2001	?	ELECTRIC POWER GENERATION TURBINE & DUCT BURNER	1,700	NONE INDICATED	17.4	BACT-OTHER
GREEN COUNTRY ENERGY PROJECT	OKLAHOMA	10/1/1999	?	(3) TURBINES W/ DUCT BURNERS, COMBINED CYCLE	2,133	NONE INDICATED	17.4	BACT-PSD
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	GCP AND CLEAN BURNING FUEL, DLN	17.4	BACT-PSD
RELIANT ENERGY HOPE GENERATING FACILITY	JOHNSTON, RI	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	1,488	GCP	17.8	BACT-PSD
MOBILE ENERGY LLC	MOBILE, AL	1/5/1999	YES	TURBINE, GAS COMBINED CYCLE	1,344	GCP	17.8	BACT-PSD
AEC - MCWILLIAMS PLANT	GANTT, AL	3/3/2000	YES	(2) TURBINES, COMBINED CYCLE COMBUSTION	1,328	EFFICIENT COMBUSTION	17.8	BACT-PSD
BLACK DOG GENERATING PLANT	BURNSVILLE, MN	1/12/2001	?	TURBINE, COMBINED CYCLE	2,320	GOOD COMBUSTION CONTROL	18.0	BACT-PSD
XCEL ENERGY, BLACK DOG ELECTRIC GEN	BURNSVILLE, MN	11/17/2000	?	COMBUSTION TURBINE WITH HRSG	1,917	COMBUSTOR DESIGN AND OPERATION	18.0	BACT-PSD
				COMBUSTION TURBINE WITH HRSG W/ DUCT BURNER	2,427		25.0	
BARTON SHOALS ENERGY	ENGLEWOOD, AL	7/12/2002	?	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	GCP	18.3	BACT-PSD
BEATRICE POWER STATION	BEATRICE, NE	5/29/2003	NO	(2) TURBINE, COMBINED CYCLE	640	GOOD COMBUSTION & CATALYTIC OXIDATION	18.4	BACT-OTHER
PRG INDUSTRIES	LAKE CHARLES, LA	12/21/1999	?	COGENERATION UNIT 5 AND 6 (EACH)	1,480	GOOD DESIGN, PROPER OPERATION AND MAINTENANCE PRACTICES	19.0	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE (75%-100% LOAD)	1,480	GCP	19.7	BACT-PSD
				TURBINE, COMBINED CYCLE (<75% LOAD)	1,480		68.2	
DUKE ENERGY ARLINGTON VALLEY	ARLINGTON, AZ	12/14/2000	YES	TURBINE, COMBINED CYCLE	2,040	NONE INDICATED	20.0	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	DLNB, GCP	20.0	BACT-PSD
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	YES	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,083	GCP	20.0	BACT-PSD
CASCO BAY ENERGY CO	VEAZIE, ME	7/13/1998	?	(2) TURBINE, COMBINED CYCLE	1,360	15% EXCESS AIR	20.0	BACT-PSD
MCCOLAIN ENERGY FACILITY	OKLAHOMA	1/19/2000	?	COMBUSTION TURBINES W/ NON-FIRED HEAT RECOVERY	1,360	GOOD COMBUSTION CONTROL	20.0	BACT-PSD
BELL ENERGY FACILITY	TEMPLE, TX	6/26/2001	NO	(2) GAS TURBINES (HRSG-1 AND HRSG-2)	1,400	LOW NOX COMBUSTOR, GCP	20.0	BACT-PSD
WISE COUNTY POWER	HOUSTON, TX	7/14/2000	NO	(2) COMBUSTION TURBINES STACK 1 & 2	1,840	OXIDATION CATALYST	20.0	BACT-PSD
KAUFMAN COGEN LP	TEXAS	1/31/2000	NO	(2) GAS TURBINES HRSG-1 & -2	1,440	NONE INDICATED	20.0	BACT-PSD
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	(2) GE-7241FA TURBINES HRSG-1 & -2	1,400	GCP	20.0	BACT-PSD
JACK COUNTY POWER PLANT	HOUSTON, TX	3/14/2000	NO	(2) GE-7241FA TURBINES, HRSG-1&-2	2,080	GCP	20.0	BACT-PSD
ENNIS TRACTEBEL POWER	ENNIS, TX	1/31/2002	NO	COMBUSTION TURBINE W/HEAT RECOVERY STEAM GENERATOR	2,800	NONE INDICATED	20.0	BACT-OTHER
GREGORY POWER FACILITY	TEXAS	6/16/1999	NO	(2) COMBUSTION TURBINES NO DUCT BURN EPN 101&102	1,480	GOOD COMBUSTION	20.0	BACT-PSD
				(2) COMBUSTION TURBINES W/DUCT BURN EPN101&102	1,480		26.2	
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINE & DUCT BURNER	1,360	EFFICIENT COMBUSTION	20.1	BACT-PSD
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1, 2, 3	888	GOOD COMBUSTION	20.2	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,375	BEST COMBUSTION CONTROL PRACTICES	21.0	BACT-PSD
GULF STATES UTILITIES COMPANY - LOUISIANA	BATON ROUGE, LA	2/7/1996	?	NO.4 TURBINE/HRSG	1,573	NONE INDICATED	22.1	OTHER
CHOCTAW GAS GENERATION, LLC	MISSISSIPPI	12/13/2001	?	(2) TURBINE, COMBINED CYCLE	2,737	GCP	22.3	BACT-PSD
PINNACLE WEST ENERGY CORP./REDHAWK GEN	PHOENIX, AZ	12/2/2000	YES	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	GOOD COMBUSTION	23.0	BACT-PSD
RELIANT ENERGY - CHANNELVIEW COGENERATION	HOUSTON, TX	10/29/2001	NO	(4) TURBINE/HRSG #1-#4	2,230	NONE INDICATED	23.0	BACT-PSD
WEST CAMPUS COGENERATION COMPANY	HOUSTON, TX	5/21/1994	NO	(2) GAS TURBINES UNITS 1 & 2 W/O DUCT BURNER	602	INTERNAL COMBUSTION CONTROLS	23.0	BACT-OTHER
				(2) GAS TURBINES UNITS 1 & 2 W/ DUCT BURNER	602		35.7	
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(6) COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	GCP	23.2	BACT-PSD
AUTAUGAVILLE COMBINED CYCLE PLANT	PRATTVILLE, AL	1/8/2001	?	(4) COMBUSTION TURBINES COMBINED CYCLE	1,384	GCP	23.2	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	HOUSTON, TX	4/1/2002	NO	(2) TURBINES, COMBINED CYCLE	1,360	GOOD OPERATING PRACTICE	23.6	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	2,142	CO CATALYST	0.9	BACT
CEDAR BLUFF POWER PROJECT	CEDAR BLUFF, TX	12/21/2000	NO	(2) COMBUSTION TURBINES W/HRSG STACK1&2	2,640	GOOD COMBUSTION AND OXIDATION CATALYST	23.6	BACT-PSD
MONTGOMERY COUNTY POWER PROJECT	TEXAS	6/27/2001	?	(2) CTG-HRSG STACKS STACK1 & 2	1,440	GOOD COMBUSTION AND CO CATALYST	23.6	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION TECHNOLOGY, CLEAN FUELS	23.7	BACT-PSD
CHOCOLATE BAYOU PLANT	ALVIN, TX	3/24/2003	NO	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	GCP	24.4	BACT-PSD
PUBLIC SERVICE CO OF OKLAHOMA	CADD0, OK	2/9/2007	YES	GAS-FIRED TURBINES	Not Reported	COMBUSTION CONTROL	25.0	BACT-PSD
FRONT RANGE POWER COMPANY, LLC	FOUNTAIN, CO	11/13/2000	?	TURBINES, COMBINED CYCLE	1,384	GOOD COMBUSTION CONTROL PRACTICES TO MINIMIZE EMISSIONS	25.0	BACT-PSD
NORTH AMERICAN POWER GP - KJOWA CREEK	GREENWOOD VILLAGE, CO	1/17/2001	?	(4) COMBINED-CYCLE GAS TURBINES - GENERATORS	2,000	GOOD COMBUSTION CONTROL PRACTICES	25.0	BACT-PSD
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, GE	600	COMBUSTION CONTROLS	25.0	BACT-PSD
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	GOOD COMBUSTION OF CLEAN FUELS	25.0	BACT-OTHER
CIPS - GRAND TOWER POWER STATION	ILLINOIS	2/25/2000	YES	(2) COMBINED CYCLE COMBUSTION TURBINE (UNITS 1&2)	2,365	GCP	25.0	BACT-PSD
KENTUCKY PIONEER ENERGY, LLC - TRAPP	KENTUCKY	6/7/2001	?	(2) TURBINES, COMBINED CYCLE	1,765	GOOD COMBUSTION	25.0	BACT-PSD
CARVILLE ENERGY CENTER	LOUISIANA	12/9/1999	?	(2) GAS TURBINES	1,908	GCP, GOOD DESIGN AND OPERATING PRACTICES, NATURAL GAS AS FUEL	25.0	BACT-PSD
PLAQUEMINE, IBERVILLE PARISH	LOUISIANA	12/26/2001	?	(4) GAS TURBINES/DUCT BURNERS	2,876	GCP	25.0	BACT-PSD
SHELL CHEMICAL COMPANY - GEISMAR PLANT	GEISMAR, LA	5/10/2000	?	(2) COGENERATION UNITS COMBINED CYCLE	320	GCP	25.0	BACT-PSD
CARVILLE ENERGY CENTER	LOUISIANA	5/16/2001	?	(2) GAS TURBINES (1-98A, 2-98A)	1,908	GOOD DESIGN AND PRACTICES NATURAL GAS AS FUEL WITH DLN BURNERS	25.0	BACT-PSD
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINES #1 & #2	1,127	DILUENT WATER INJECTION SYTEM BY USING A "QUIET COMBUSTOR" MULTI FUEL N	25.0	BACT-PSD
LIMA ENERGY COMPANY	CINCINNATI, OH	3/26/2002	?	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	NONE INDICATED	25.0	BACT-PSD
ELECTRIC GENERATING STATION	HOUSTON, TX	8/31/2000	?	(8) ELECTRIC GENERATION TURBINES	2,000	OXIDATION CATALYST	25.0	LAER
MAGIC VALLEY GENERATION STATION	TEXAS	12/31/1998	NO	(2) TURBINE/HRSG CTG-1 & CTG-2	1,920	PROPER COMBUSTION	25.0	BACT-PSD
PASADENA 2 POWER FACILITY	TEXAS	9/30/1998	?	(2) TURBINE/HRSG (CG-2, CG-3)	1,280	PROPER COMBUSTION CONTROL	25.0	BACT-PSD
FREEPORT COGENERATION FACILITY	FREEPORT, TX	6/26/1998	?	TURBINE/HRSG W/ AND W/O DUCT BURNER FIRING	672	LNB	25.0	BACT-PSD
LOST PINES 1 POWER PLANT	AUSTIN, TX	9/30/1999	?	(2) COMBINED CYCLE TURBINE	1,464	GCP	25.0	BACT-PSD
EXXON-MOBIL BEAUMONT REFINERY	BEAUMONT, TX	3/14/2000	?	(3) COMBUSTION TURBINES W/DUCT BURN 61STK001-003	1,464	DLN BURNERS	25.0	BACT-PSD
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	NEW GAS TURBINE PHASE 3 ON 1STK-701	1,360	NONE INDICATED	25.0	BACT-OTHER
AES WOLF-HOLLOW LP	AUSTIN, TX	7/20/2000	NO	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	2,228	NONE INDICATED	25.0	OTHER
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	NO	(8) COMBUSTION GS TURBINE GENERATORS STACKS 1-8	1,400	CO CATALYST	25.0	BACT-PSD
DEER PARK ENERGY CENTER	HOUSTON	8/22/2001	?	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	EFFICIENT & COMPLETE COMBUSTION	25.0	BACT-PSD
WEATHERFORD ELECTRIC GENERATION FACILITY	TEXAS	3/11/2002	NO	(2) GE121EA GAS TURBINES	1,079	NONE INDICATED	25.0	OTHER
PLANT NO. 2	LUBBOCK, TX	1/8/1999	?	(2) TURBINE/DUCT BURNER STGT1 & T2	336	GCP	25.0	BACT-PSD
UCC SEADRIFT OPERATIONS	PORT LAVACA, TX	10/20/1999	?	COGEN STACK TURBINE ONLY	310	PROPER OPERATION AND COMBUSTING NAT GAS &/OR BYPRODUCT FUEL GAS	25.0	BACT-PSD
				COGEN STACK COMBINED GT/HRSG4DB 1180	310		30.0	
PERRYVILLE	ALEXANDRIA, LA	8/25/2000	?	(4) GAS TURBINES IN COMBINED CYCLE MODE	1,774	LNB	25.0	BACT-PSD
				(4) COMBINED CYCLE GENERATION UNIT	1,464		33.0	
PERRYVILLE POWER STATION	ALEXANDRIA, LA	3/8/2002	?	(2) GAS TURBINES, EPNS 1-1, 1-2	1,360	GOOD OPERATING PRACTICES, USE OF CLEAN BURNING FUEL, LNB	25.0	BACT-PSD
				(2) GAS TURBINE/HRSG UNITS, EPNS 1-1, 1-2	1,360		35.5	
FORMOSA PLASTICS CORPORATION, LOUISIANA	BATON ROUGE, LA	3/2/1995	?	TURBINE/HRSG, GAS COGENERATION	450	PROPER OPERATION	25.5	BACT-PSD
VH BRAUNIG A VON ROSENBERG PLANT	SAN ANTONIO, TX	10/14/1998	NO	(2) COMBUSTION TURBINES & HRSG W/ DUCT BURN E5&6	1,488	NONE INDICATED	26.0	OTHER
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	MOSELL, MS	4/9/1995	YES	COMBUSTION TURBINE COMBINED CYCLE	1,299	GOOD COMBUSTION CONTROLS	26.3	BACT-PSD
Pedricktown Cogeneration Plant (PCLP)	MAYS LANDING, NJ	9/19/1995	?	COMBUSTION TURBINE, W/O DUCT BURNER	908	NONE INDICATED	26.7	BACT-PSD
				TURBINE WITH DUCT BURNER	1,048		31.1	
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	NO	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	GCP AND COMBUSTION CONTROL	27.0	BACT-PSD
				TURBINE, COMBINED CYCLE W/O DUCT BURNERS	2,166		64.0	
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(2) COMBINED CYCLE COMB TURB.	1,384	EFFICIENT COMBUSTION	27.2	BACT-PSD
MEAD COATED BOARD, INC.	PHENIX CITY, AL	3/12/1997	?	COMBINED CYCLE TURBINE (25 MW)	568	PROPER DESIGN AND GCP	28.0	BACT-PSD
HAYWOOD ENERGY CENTER, LLC	FLORIDA	2/1/2002	?	TURBINE, COMBINED CYCLE W AND W/O DUCT FIRING	1,990	GCP	28.3	BACT-PSD
GENOVA ARKANSAS I, LLC	ARKANSAS	8/23/2002	NO	(2) TURBINE, COMBINED CYCLE (SWH)	1,360	GCP	30.0	BACT-PSD
BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/25/1997	?	(3) TURBINE, EMISSION POINTS AA-001, 002, 003	2,248	NONE LISTED	30.3	BACT-PSD
				(3) TURBINE, EMISSION POINTS AA-001, 002, 003 (<75% LOAD)	1,686		200.0	
GENERAL ELECTRIC PLASTICS	BURKVILLE, AL	5/27/1998	?	TURBINE & DUCT BURNER COMBINED CYCLE	1,200	PROPER COMBUSTION	31.2	BACT-PSD
MILLENNIUM POWER PARTNER, LP	CHARLTON, MA	2/2/1998	?	TURBINE, COMBUSTION WESTINGHOUSE MODEL 501G	2,534	DLN COMBUSTION TECHNOLOGY	31.2	BACT-PSD
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	COMBUSTION CONTROLS	33.0	BACT-PSD
SPRINGDALE TOWNSHIP STATION	GREENSBURG, PA	7/12/2001	YES	TURBINE, COMBINED CYCLE	2,094	GCP	36.0	BACT-PSD
KM POWER COMPANY	FORT LUTPON, CO., MI	6/26/2000	YES	TURBINE, GE 7EA FRAME COMBINED CYCLE	896	NONE LISTED	37.0	BACT-PSD
BLACK HILLS CORP NEIL SIMPSON TWO	GILLETTE, WY	4/4/2003	?	TURBINE, COMBINED CYCLE & DUCT BURNER	320	GCP	37.2	BACT-PSD
ALABAMA POWER COMPANY - THEODORE COGEN	THEODORE, AL	3/16/1999	YES	TURBINE, W/ DUCT BURNER	1,360	EFFICIENT COMBUSTION	38.4	BACT-PSD
PIKE GENERATION FACILITY	MISSISSIPPI	9/24/2002	NO	(4) TURBINES, COMBINED CYCLE, WITH DUCT BURNER	2,168	EFFICIENT COMBUSTION PRACTICES	40.0	BACT-PSD
MUSTANG ENERGY PROJECT	OKLAHOMA	2/12/2002	?	COMBUSTION TURBINES W/ DUCT BURNERS	2,480	COMBUSTION CONTROLS	40.0	BACT-PSD
HORSESHOE ENERGY PROJECT	OKLAHOMA	2/12/2002	?	TURBINES AND DUCT BURNERS	2,480	GOOD COMBUSTION CONTROL	40.0	BACT-PSD
DECATUR ENERGY CENTER	DECATUR, AL	6/6/2000	YES	(3) TURBINES, COMBINED CYCLE	1,867	EFFICIENT COMBUSTION	44.6	BACT-PSD
PUBLIC SERVICE OF COLO.-FORT ST VRAIN	PLATTEVILLE, CO	9/11/1996	YES	(2) COMBINED CYCLE TURBINES	1,884	GOOD COMBUSTION CONTROL PRACTICES	48.0	BACT-PSD
LEDERLE LABORATORIES	PEARL RIVER, NY	9/15/1994	?	(2) GAS TURBINES (EP #5 00101&102)	110	NONE LISTED	48.0	BACT-OTHER
KM POWER COMPANY	FORT LUTPON, CO., MI	6/26/2000	YES	(6) TURBINE GE LM 6000 COMBINED CYCLE	416	NONE LISTED	60.0	BACT-PSD
WRIGHTSVILLE POWER FACILITY	WRIGHTSVILLE, AR	2/28/2000	?	(6) TURBINE, COMBUSTION GE LM6000	368	STEAM INJECTION/GOOD COMBUSTION	66.0	BACT-PSD
FORMOSA PLASTICS CORPORATION, BATON ROUGE	BATON ROUGE, LA	3/7/1997	YES	TURBINE/HRSG, GAS COGENERATION	450	COMBUSTION DESIGN AND CONSTRUCTION	69.0	BACT-PSD
BASF CORPORATION	GEISMAR, LA	12/30/1997	?	(2) TURBINE, COGEN UNIT GE FRAME 6	339	GOOD DESIGN, PROPER COMBUSTION TECHNIQUES 2% EXCESS O ₂	88.3	BACT-PSD
MCWILLIAMS PLANT	ANDALUSIA, AL	4/14/1995	YES	TURBINE COMBINED CYCLE UNIT	848	EFFICIENT COMBUSTION	100.0	BACT-PSD
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	GAS TURBINE	500	NONE INDICATED	107.0	BACT-OTHER
				STACK EMISSIONS (TURBINE & DUCT BURNER)	610		156.0	
TEXAS CITY OPERATIONS	TEXAS CITY, TX	1/23/2003	?	(4) GAS TURBINES & WHB - COMBINED	114	GCP	132.0	BACT-PSD
INTERNATIONAL PAPER	MANSFIELD, LA	2/24/1994	?	TURBINE/HRSG, GAS COGEN	338	COMBUSTION CONTROL	161.2	BACT-OTHER
PONCA CITY MUNICIPAL ELECTRICAL GENERATING	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	360	DESIGN	188.7	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
ASSOCIATED ELECTRIC COOPERATIVE INC	1/23/2009	NO	COMBINED CYCLE COGENERATION	1,882	GOOD COMBUSTION	0.3	BACT
CHAMBERS ENERGY LP /ANP	3/6/2000	NO	(8) ABB GT-24 COMBUSTION TURBINES	1,440	GOOD COMBUSTION DESIGN/OPERATIONS CO CATALYST	0.4	LAER
HARRIS ENERGY FACILITY	8/31/2000	NO	(8) COMBUSTION GS TURBINE GENERATORS STACK (100% LOAD)	1,400	GOOD COMBUSTION AND DESIGN	0.4	BACT-PSD
			(8) COMBUSTION GS TURBINE GENERATORS STACK (50%-100% LOAD)	1,400		0.7	
WEST TEXAS ENERGY FACILITY	7/28/2000	NO	(2) GAS TURBINE NO POWER AUGMENTATION CASE I	2,000	GOOD COMBUSTION DESIGN AND OPERATIONS	0.4	BACT-PSD
			(2) GAS TURBINES W/POWER AUGMENTATION CASE II	2,000		3.0	
VIRGINIA ELECTRIC AND POWER COMPANY	12/17/2010	NO	(3) COMBINED CYCLE TURBINE GENERATORS W/ HRSG & DUCT BURNERS	2996	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	0.7 w/out DB	BACT
ASSOCIATED ELECTRIC COOPERATIVE INC - CHOUTEAU POWER PLANT	3/24/1999	YES	(2) COMBUSTION TURBINES COMBINED CYCLE	1,783	COMBUSTION CONTROLS	0.57	BACT-PSD
CPV WARREN, LLC	7/30/2004	NO			OXIDATION CATALYST		BACT
			(2) COMBINED CYCLE TURBINES, GE 7FA	1,717		0.7	
			(2) COMBINED CYCLE TURBINES W/ DUCT BURNER, GE 7FA	2,217		1.0	
			(2) COMBINED CYCLE TURBINES W/ POWER AUG, W/ DB, GE 7FA	2,217		1.4	
MANTUA CREEK GENERATING FACILITY	6/26/2001	?	(3) COMBUSTION TURBINE W/O DUCT BURNER	2,181	OXIDATION CATALYST	0.7	NSPS
			(3) COMBUSTION TURBINE W/O DUCT BURNER 75% LOAD	1,636		0.8	
			(3) COMBUSTION TURBINE W/O DUCT BURNER 60% LOAD	1,309		0.8	
			(3) COMBUSTION TURBINE W/ DUCT BURNER	2,181		1.8	
PANDA-BRANDYWINE	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	0.8	OTHER
BEAR MOUNTAIN LIMITED	8/19/1994	?	TURBINE, GE COGENERATION 48 MW	384	OXIDATION CATALYST	0.6	OTHER
MEMPHIS GENERATION, LLC	4/9/2001	NO	TURBINE, COMBINED CYCLE DUCT BURNER	1,698	NONE INDICATED	0.8	BACT-PSD
PDC EL PASO MILFORD LLC	4/16/1999	?	(2) TURBINES, ABB GT-24 #1&2 W/ 2 CHILLERS (75-99% LOAD, ALL TEMPS)	1,965	OXIDATION CATALYST FOR CO	0.9	BACT
			(2) TURBINES, ABB GT-24 #1&2 W/ 2 CHILLERS (50-74% LOAD, ALL TEMPS)	1,965		1.2	
			(2) TURBINES, ABB GT-24 #1&2 W/ 2 CHILLERS (100% LOAD, TEMP < 60°F)	1,965		1.2	
			(2) TURBINES, ABB GT-24 #1&2 W/ 2 CHILLERS (100% LOAD, TEMP 61-70°F)	1,965		1.3	
			(2) TURBINES, ABB GT-24 #1&2 W/ 2 CHILLERS (100% LOAD, TEMP 71-80°F)	1,965		1.5	
			(2) TURBINES ABB GT-24 #1&2 W/ 2 CHILLERS (100% LOAD, TEMP > 81°F)	1,965		3.0	
EMPIRE GENERATING CO, LLC	6/23/2005	NO	(2) GE FRAME 7FA COMB TURBINES, HRSGS & STG.	2,099	OXIDATION CATALYST	1.0	LAER
			FUEL COMBUSTION (NATURAL GAS)	646	OXIDATION CATALYST	7.0	LAER
FAIRBULT ENERGY PARK	7/15/2004	NO	(2) TURBINE, COMBINED CYCLE	1,876	GCP	1.0	BACT-PSD
SITHE EDGAR DEV. LLC - FORE RIVER	3/10/2000	YES	(2) MH 501G COMBUSTION TURBINE	2,676	OXIDATION CATALYST	1.0	BACT
			(2) MH 501G COMBUSTION TURBINE W/ DUCT FIRING	2,955		1.7	
LIBERTY GENERATING STATION	3/28/2002	NO	(3) COMBINED CYCLE TURBINE	2,964	CO CATALYST	1.0	OTHER
			(3) COMBINED CYCLE TURBINE W/ DUCT BURNER	3,202		1.7	
SITHE MYSTIC DEVELOPMENT LLC	9/29/1999	YES	(2) TURBINE, COMBINED CYCLE	2,699	CLEAN FUEL	1.0	LAER
			(2) TURBINE, COMBINED CYCLE, DUCT FIRING	2,699		1.7	
DUKE ENERGY ARLINGTON VALLEY (AVERII)	11/12/2003	NO	(2) TURBINE, COMBINED CYCLE	1,360	NONE INDICATED	1.0	BACT-PSD
			(2) TURBINE, COMBINED CYCLE & DUCT BURNER	1,955		4.0	
MIRANT GASTONIA POWER FACILITY	5/28/2002	?	(4) TURBINES, COMBINED CYCLE MH/SW	1,400	GCP	1.0	BACT-PSD
			(4) TURBINES, COMBINED CYCLE MH/SW DUCT BURNERS	1,400		4.6	
AES LONDONDERRY, LLC	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 & #2	2,849	GCP	1.0	SIP
MILLENNIUM POWER PARTNER, LP	2/2/1998	?	TURBINE, COMBUSTION WESTINGHOUSE MODEL 501G	2,534	DLN COMBUSTION TECHNOLOGY	1.0	BACT-PSD
MANSFIELD MILL	8/14/2001	?	GAS TURBINE/HRSG	654	OPERATION/MAINTENANCE, VENDOR GUARANTEE	1.0	BACT-PSD
CRESENT CITY POWER, LLC	6/6/2005	NO	NEW 600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	2,006	CO OXIDATION CATALYST AND GCP	1.1	BACT-PSD
EL PASO MANATEE ENERGY CENTER	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	OXIDATION CATALYST	1.1	BACT
EL PASO BELLE GLADE ENERGY CENTER	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	OXIDATION CATALYST	1.1	BACT
BROOKHAVEN ENERGY, LP	7/18/2002	NO	(4) COMBINED CYCLE TURBINES, 75%-100%	1,897	OXIDATION CATALYST	1.1	OTHER
			(4) COMBINED CYCLE TURBINES, 50%-74%	1,404		1.9	
SOUTH SHORE POWER LLC	1/30/2003	?	(2) TURBINE, COMBINED CYCLE	1,376	OXIDATION CATALYST	1.1	BACT-OTHER
			(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,883		2.5	
LAKE ROAD GENERATING COMPANY, L.P.	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3	2,181	OXIDATION CATALYST FOR CO	1.1	BACT
WESTBROOK POWER LLC	12/4/1998	?	(2) TURBINE, COMBINED CYCLE	2,112	NONE INDICATED	1.1	BACT-PSD
FLORIDA POWER AND LIGHT COMPANY (FP&L) - West County Energy Center	7/30/2008	YES	THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTARY-FIRED HRSG	2,333	SCR & DLN when firing natural gas	1.2 w/out DB	
						1.5 w/DB	PSD-BACT
PROGRESS ENERGY FLORIDA (PEF) - Bartow Plant	12/23/2009	YES	COMBINED CYCLE COMBUSTION TURBINE SYSTEM (4-ON-1)	493	SCR & DLN when firing natural gas	1.2 w/out DB	
TRANSGAS ENERGY SYSTEMS	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	OXIDATION CATALYST	1.5 w/DB	BACT-PSD
ONETA GENERATING STA	1/21/2000	?	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	NONE INDICATED	1.2	LAER
CONNECTIV BETHLEHEM, INC.	1/16/2002	?	(6) TURBINE, COMBINED CYCLE	976	NONE INDICATED	1.2	BACT-PSD
ODESSA-ECTOR GENERATING STATION	11/18/1999	NO	(4) TURBINE W/ AND W/O DUCT BURNERS GT-HRSG 1-4	1,360	GOOD COMBUSTION DESIGN & OPERATIONS	1.2	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	5/9/2000	YES	(6) GAS FUELED TURBINES, STACK 1-6	2,200	GOOD COMBUSTION DESIGN AND OPERATIONS	1.2	BACT-PSD
			(6) GAS FUELED TURBINES, STACK 1-6, W/ EVAP COOLER OR STEAM INJ.	2,200		3.0	
BADGER GENERATING CO LLC	9/20/2000	?	(4) COMBUSTION TURBINE COMBINED CYCLE (75% LOAD)	2,010	THE USE OF OXIDATION CATALYST	1.2	LAER
			(4) COMBUSTION TURBINE COMBINED CYCLE (50% LOAD)	2,010		3.0	
VA POWER - POSSUM POINT	11/18/2002	YES	TURBINE, NO DUCT BURNER FIRING	1,937	GOOD AIR POLLUTION CONTROL PRACTICES	1.2	BACT-PSD
			TURBINE, COMBINED CYCLE, DUCT BURNER	1,937		2.3	
PARIS GENERATING STATION	10/28/1998	?	(4) GAS TURBINES GE7241FA GT-HRSG#1-#4	1,360	GOOD AIR POLLUTION CONTROL PRACTICES	1.2	BACT-PSD
			(4) GAS TURBINES W/DUCT BURNERS GT-HRSG#1-#4	2,000		2.3	
MIRANT BOWLINE, LLC	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	1,815	CO CATALYST & EFFICIENT COMBUSTION TECHNIQUES	1.2	LAER
			(3) COMBINED CYCLE TURBINES	2,049		2.4	
DUKE ENERGY, VIGO LLC	6/6/2001	NO	(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,360	GOOD COMBUSTION, NATURAL GAS ONLY	1.2	BACT-PSD
			(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,945		6.2	
KEYSPAN RAVENSWOOD GENERATING STATION	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	OXIDATION CATALYST	1.2	OTHER
			(1) COMBINED CYCLE COMBUSTION TURBINE, W/ DUCT BURNER	2,423		7.6	
APS WEST PHOENIX	5/26/2000	YES	TURBINE, COMBINED CYCLE, NO DUCT BURNER CC4	1,040	OXIDATION CATALYST	1.9	LAER
			TURBINE, COMBINED CYCLE, DUCT BURNER CC4	1,040		2.1	
TOWANTIC ENERGY, LLC	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,706	OXIDATION CATALYST FOR CO	1.2	BACT
FLORIDA POWER AND LIGHT	2/8/2005	NO	(4) GE MODEL FA TURBINES (170 MW EACH), (4) HRSGS, (1) STG	1,360	EFFICIENT COMBUSTION	1.3	None
DUKE ENERGY WYTHE, LLC	2/5/2004	NO	(2) TURBINE, COMBINED CYCLE	1,827	GCP	1.3	BACT-PSD
			(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,470		6.6	
EL PASO BROWARD ENERGY CENTER	2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	EFFICIENT COMBUSTION	1.3	BACT

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
ASSOCIATED ELECTRIC COOPERATIVE INC	1/23/2009	NO	COMBINED CYCLE COGENERATION	1,882	GOOD COMBUSTION	0.3	BACT
NYP& POLETTI POWER PROJECT	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	OXIDATION CATALYST	1.3	LAER
TECO BAYSIDE POWER STATION	3/30/2001	YES	(7) TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION DESIGN AND OPERATING PRACTICES	1.3	BACT-PSD
CEDAR BLUFF POWER PROJECT	12/21/2000	NO	(2) COMBUSTION TURBINES W/HRSG STACK1&2	2,640	GCP AND OXIDATION CATALYST	1.3	LAER
MONTGOMERY COUNTY POWER PROJECT	6/27/2001	NO	(2) CTG-HRSG STACKS STACK1 & 2	1,440	GOOD COMBUSTION AND VOC CATALYST	1.3	BACT-PSD
NORTON ENERGY STORAGE, LLC	5/23/2002	YES	(9) COMBUSTION TURBINE COMB CYCLE W/O DUCT BURNER	2,400	DLN & SCR	1.3	BACT-PSD
			(9) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	2,400		2.3	
FPL MARTIN PLANT	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	GCP	1.3	BACT-PSD
			(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,095		4.0	
FPL MANATEE PLANT - UNIT 3	4/15/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	GCP	1.3	BACT-OTHER
			(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER OR POWER AUG.	1,360		4.0	
MIRANT GASTONIA POWER FACILITY	5/28/2002	?	(4) TURBINES, COMBINED CYCLE GE	1,400	GCP	1.3	BACT-PSD
			(4) TURBINES, COMBINED CYCLE GE DUCT BURNERS	1,400		4.9	
TENASKA FRONTIER GENERATION STATION	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464	GOOD COMBUSTION DESIGN AND OPERATIONS	1.3	BACT-PSD
			(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464		5.6	
PINE BLUFF ENERGY CENTER	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	GCP WITH DLN COMBUSTORS (NAT GAS)	1.3	BACT-PSD
PINE BLUFF ENERGY LLC	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	GCP	1.3	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	2,400	NONE INDICATED	1.3	BACT-PSD
KEYSPAN SPAGNOLI ROAD ENERGY CENTER	4/30/2003	NO	(1) COMBINED CYCLE COMBUSTION TURBINE	1,788	CATALYTIC REDUCTION	1.4	OTHER
NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	NO	COMBINED CYCLE TURBINES	3,573	OXIDATION CATALYST	1.4	BACT/LAER
GENOVA ARKANSAS I, LLC	8/23/2002	NO	(2) TURBINE, COMBINED CYCLE (GE)	1,360	GCP	1.4	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY	12/14/2000	YES	TURBINE, COMBINED CYCLE	2,040	NONE INDICATED	1.4	BACT-PSD
GILA BEND POWER GENERATING STATION	5/15/2002	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	OXIDATION CATALYST AND GCP	1.4	BACT-PSD
MOUNTAINVIEW POWER	5/22/2001	YES	(4) TURBINE, COMBINED CYCLE	1,991	OXIDATION CATALYST	1.4	LAER
SACRAMENTO MUNICIPAL UTILITY DISTRICT	9/1/2003	?	(2) GAS TURBINES	1,611	NONE INDICATED	1.4	
FPL SANFORD PLANT	9/14/1999	YES	(4) COMBUSTION TURBINES COMBINED CYCLE	1,776	GCP	1.4	BACT-PSD
CPV GULF COAST POWER GENERATING STATION	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,700	COMBUSTION CONTROLS	1.4	BACT-OTHER
CPV ATLANTIC POWER GENERATING FACILITY	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE	1,700	GCP	1.4	BACT-OTHER
CP & L - RICHMOND CO. FACILITY	12/21/2000	?	(2) TURBINES, COMBINED CYCLE	1,628	COMBUSTION CONTROL	1.4	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,628	COMBUSTION CONTROL	1.4	BACT-PSD
CLOVIS ENERGY FACILITY	6/27/2002	?	(4) TURBINES, COMBINED CYCLE	1,515	PIPELINE QUAL NAT GAS, GOOD ENGINEERING PRACTICE	1.4	BACT-PSD
PALESTINE ENERGY FACILITY	12/13/2000	NO	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	GCP	1.4	BACT-PSD
ARCHER GENERATING STATION	1/3/2000	?	(4) GAS TURBINES TURBINE W/ AND W/O DUCT BURNER	1,360	GCP	1.4	BACT-PSD
GATEWAY POWER PROJECT	3/20/2000	?	(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3)	1,440	GOOD COMBUSTION DESIGN AND OPERATIONS	1.4	BACT-PSD
			(3) COMBUSTION TURBINES & DUCTBURNERS CTG (1), (2), (3)	1,360		2.4	
ANP BELLINGHAM ENERGY COMPANY	8/4/1999	?	(2) TURBINES, COMBINED CYCLE (50%-100%)	3,630	CLEAN FUEL - NATURAL GAS	1.4	LAER
			(2) TURBINES, COMBINED CYCLE (<50%)	3,630		2.5	
			(2) TURBINES, COMBINED CYCLE, W/ STEAM INJECTION	3,630		3.5	
BASTROP CLEAN ENERGY CENTER	3/21/2000	NO	(2) COMBUSTION TURBINE GENERATORS ONLY	1,288	GCP	1.4	BACT-PSD
			(2) TURBINES AND DUCT BURNERS COMBINED	1,288		3.0	
FPL ENERGY MARCUS HOOK, L.P.	5/4/2003	?	(3) TURBINE, COMBINED CYCLE	1,798	GCP	1.4	LAER
			(3) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,191		3.1	
ANP BLACKSTONE ENERGY COMPANY	4/16/1999	?	(2) TURBINE, COMBINED CYCLE	1,815	CLEAN FUEL - NATURAL GAS	1.4	BACT-PSD
			(2) TURBINE, COMBINED CYCLE, W/ STEAM INJECTION	1,815		3.5	
JAMES CITY ENERGY PARK	12/1/2003	?	TURBINE, COMBINED CYCLE	1,973	GOOD COMBUSTION/DESIGN AND CLEAN FUEL	1.4	BACT-PSD
			TURBINE, COMBINED CYCLE, DUCT BURNER	2,325		4.0	
CANE ISLAND POWER PARK /KUA - UNIT 3	11/24/1999	?	TURBINE, COMBINED CYCLE	1,696	GOOD COMBUSTION	1.4	BACT-PSD
			TURBINE, COMBINED CYCLE & DUCT BURNER	1,696		4.0	
GENOVA OK I POWER PROJECT	6/13/2002	?	GE COMBUSTION TURBINE W/O DUCT BURNERS	1,705	GCP AND DLN COMBUSTOR	1.4	BACT-PSD
			GE COMBUSTION TURBINE & DUCT BURNERS	1,705		4.1	
PERRYVILLE	8/25/2000	?	(4) GAS TURBINES IN COMBINED CYCLE MODE	1,774	LNB	1.4	BACT-PSD
			(4) COMBINED CYCLE GENERATION UNIT	1,464		4.8	
CONED EAST RIVER REPOWERING PROJECT	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	OXIDATION CATALYST	1.4	LAER
			(2) COMBUSTION TURBINES, W/ DUCT BURNER	3,165		5.0	
PERRYVILLE POWER STATION	3/8/2002	?	(2) GAS TURBINES, EPNS 1-1, 1-2	1,360	GOOD OPER PRACTICES & USE OF NATURAL GAS AS FUEL	1.4	BACT-PSD
			(2) GAS TURBINE/HRSG UNITS, EPNS 1-1, 1-2	1,360		5.2	
BERRIEN ENERGY, LLC	10/10/2002	?	(3) TURBINE, COMBINED CYCLE W/O DUCT BURNER	1,650	CATALYTIC OXIDIZER PROVIDES SOME CONTROL FOR VOC	1.4	BACT-PSD
			(3) TURBINE, COMBINED CYCLE AND DUCT BURNER	2,300		5.4	
			(3) TURBINE, COMBINED CYCLE AND DUCT BURNER, POWER AUG.	2,300		12.4	
PANDA CULLODEN GENERATING STATION	12/18/2001	?	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	STATE OF THE ART COMBUSTOR DESIGN, GCP	1.4	BACT-PSD
			COMBUSTION TURBINE, 300 MW, W/ DUCT BURNER	2,400		5.7	
FORNEY PLANT	3/6/2000	NO	(6) TURBINES	1,358	GCP	1.4	BACT-PSD
			(6) COMBINED TURBINE & DUCT BURNER	1,358		20.0	
SPRINGDALE TOWNSHIP STATION	7/12/2001	YES	TURBINE, COMBINED CYCLE	2,094	GCP	1.4	BACT-PSD
WEATHERFORD ELECTRIC GENERATION FACILITY	3/11/2002	NO	(2) GE121EA GAS TURBINES	1,079	NONE INDICATED	1.4	OTHER
BP CHERRY POINT COGENERATION	3/1/2004	NO	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	OXIDATION CATALYST	1.4	BACT
FLORIDA POWER AND LIGHT COMPANY	1/10/2007	NO	COMBINED CYCLE COMBUSTION GAS TURBINES - 6 UNITS	389	None	1.5	BACT-PSD
MINNESOTA MUNICIPAL POWER AGENCY	6/5/2007	NO	COMBINED CYCLE COMB TURBINE GENERATOR W/ 249 MMBTU/HR DB	1,758	None	1.5	BACT-PSD
BERRIEN ENERGY, LLC	4/13/2005	YES	3 COMBUSTION TURBINES AND DUCT BURNERS	1,584	CATALYTIC OXIDIZER	1.6	BACT-PSD
NEWINGTON ENERGY LLC	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	GCP	1.6	OTHER
FAIRLESS ENERGY LLC	3/28/2002	?	(4) TURBINES, COMBINED CYCLE	2,380	OXIDATION CATALYST	1.6	LAER
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	OXIDATION CATALYST	1.6	LAER
COGENTRIX LAWRENCE CO., LLC	10/5/2001	?	(3) TURBINES, COMBINED CYCLE	1,944	GCP	1.6	BACT-PSD
			(3) TURBINES, COMBINED CYCLE & DUCT BURNERS	1,944		2.9	
TEXAS CITY OPERATIONS	1/23/2003	?	(4) GAS TURBINES & WHB - COMBINED	114	GCP	1.6	BACT-OTHER
GUADALUPE GENERATING STATION	2/15/1999	?	(4) TURBINES - ONLY CTG-1 TO 4	1,360	GOOD COMBUSTION DESIGN AND OPERATIONS	1.6	BACT-PSD
			(4) TURBINES W/ DUCT BURNERS CTG-1 TO 4	2,000		2.2	
CHAMPION INTERNATL CORP. & CHAMP. CLEAN ENERGY	9/14/1998	?	TURBINE, COMBINED CYCLE	1,400	NONE INDICATED	1.7	BACT-OTHER
BELL ENERGY FACILITY	6/26/2001	NO	(2) GAS TURBINES (HRSG-1 AND HRSG-2)	1,400	GCP	1.7	BACT-OTHER
PUBLIC SERVICE OF COLO.-FORT ST VRAIN	5/1/1996	YES	(2) COMBINED CYCLE TURBINES	1,884	GOOD COMBUSTION CONTROL PRACTICES	1.7	BACT-PSD
RAINEY GENERATING STATION	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION TECHNOLOGY, CLEAN FUEL	1.7	BACT-PSD
SANTEE COOPER RAINEY GENERATION STATION	4/3/2000	YES	(2) TURBINES, COMBINED CYCLE	1,360	COMBUSTION TECHNOLOGY/CLEAN FUELS	1.7	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
ASSOCIATED ELECTRIC COOPERATIVE INC	1/23/2009	NO	COMBINED CYCLE COGENERATION	1,882	GOOD COMBUSTION	0.3	BACT
DUKE ENERGY WASHINGTON COUNTY LLC	1/18/2001	YES	(2) TURBINE COMBINED CYCLE NO DUCT FIRING	1,360	SCR HAS SOME CONTROL OF VOC	1.7	BACT-PSD
			(2) TURBINE COMBINED CYCLE DUCT FIRING	1,360		11.2	
SOUTHERN COMPANY/GEORGIA POWER	1/7/2008	NO	6 TURBINES, 254 MW EACH (NOT INCLUDING STEAM RECOVERY),	2,032	OXIDATION CATALYST	1.8	LAER
KING POWER STATION	8/5/2010	NO	TURBINE	2,700	OXIDATION CATALYST	1.8	BACT/LAER
MUSTANG ENERGY PROJECT	2/12/2002	?	COMBUSTION TURBINES W/ DUCT BURNERS	2,480	GOOD COMBUSTION CONTROL	1.8	BACT-PSD
CALPINE CONSTRUCTION FINANCE CO., LP	10/10/2000	?	TURBINE, COMBINED CYCLE	1,456	NONE INDICATED	1.8	LAER
CALPINE BERKS ONTELAUNEE POWER PLANT	10/10/2000	?	(2) TURBINES, COMBINED CYCLE	2,176	2 CATALYTIC CONTROL DEVICES	1.8	BACT-OTHER
CPV CUNNINGHAM CREEK	9/6/2002	NO	(2) TURBINE, COMBINED CYCLE, 70% LOAD	1,492	GCP	1.8	BACT-PSD
			(2) TURBINE, COMBINED CYCLE	2,132		2.0	
CASCO BAY ENERGY CO	7/13/1998	?	(2) TURBINE, COMBINED CYCLE	1,937	GCP	1.8	BACT-PSD
DRESDEN ENERGY LLC	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURNER	1,374	NONE INDICATED	1.8	BACT-PSD
			(2) COMBUSTION TURBINE COMB. CYCLE W DUCT BURNER	1,374		3.7	
GARNET ENERGY, MIDDLETON FACILITY	10/19/2001	?	(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,707	GCP	1.8	BACT-PSD
			(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,097		3.8	
PSEG WATERFORD ENERGY LLC	3/29/2001	YES	(3) TURBINES, COMBINED CYCLE W/O DUCT FIRING	1,360	NONE INDICATED	1.8	BACT-PSD
			(3) TURBINES, COMBINED CYCLE W/ DUCT FIRING	1,360		3.9	
LONGVIEW ENERGY DEVELOPMENT	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	GOOD COMBUSTION CLEAN FUELS	1.9	BACT-OTHER
RIO NOGALES POWER PROJECT	12/3/1999	?	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	GOOD COMBUSTION DESIGN & OPERATION	1.9	BACT-PSD
IDAH0 POWER COMPANY	6/25/2010	?	COMBUSTION TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,375	CATALYTIC OXIDATION (CATOX),DLN, GCP	2	BACT
LIVE OAKS COMPANY, LLC	4/8/2010	?	COMBINED CYCLE COMBUSTION TURBINE - ELECTRIC GENERATING PLANT	4,800	GOOD COMBUSTION PRACTICES, CATALYTIC OXIDATION	2.0	BACT
PATITILLO BRANCH POWER COMPANY LLC	8/17/2008	NO	ELECTRICITY GENERATION	2,800	OXIDATION CATALYST	2	BACT
NORTHERN STATES POWER CO. DBA XCEL ENERGY	8/12/2005	YES	2 COMBINED CYCLE COMBUSTION TURBINES	2,640	GOOD COMBUSTION PRACTICES	2.0	BACT-PSD
APS WEST PHOENIX	5/26/2000	YES	TURBINE, COMBINED CYCLE, DUCT BURNER C05	4,240	OXIDATION CATALYST	2.0	BACT-OTHER
UMATILLA GENERATING COMPANY, L.P.	5/11/2004	?	(2) TURBINE, COMBINED CYCLE & DUCT BURNER	2,007	CATALYTIC OXIDATION AND GCP	2.0	BACT-OTHER
MIRANT SUGAR CREEK LLC	7/24/2002	?	(4) TURBINE, COMBINED CYCLE	1,491	GCP, NATURAL GAS FUEL	2.0	BACT-PSD
			TURBINE, COMBINED CYCLE AND DUCT BURNER	1,791		2.3	
SACRAMENTO POWER AUTHORITY CAMPBELL SOUP	8/19/1994	?	TURBINE GAS COMBINE CYCLE SIEMENS V84.2	1,257	OXIDATION CATALYST	2.0	BACT
LANGLEY GULCH POWER PLANT	6/25/2010	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE	2,375	OXIDATION CATALYST	2.0	BACT/LAER
THOMAS C. FERGUSON POWER PLANT	9/1/2011	NO	NATURAL GAS FIRED TURBINES	1,560	OXIDATION CATALYST	2.0	BACT/LAER
CABOT POWER CORPORATION	5/7/2000	?	TURBINE, COMBINED CYCLE	2,493	COMBUSTION CONTROLS AND OXIDATION CATALYST	2.0	BACT-PSD
KALBERG REFINING COMPANY	1/11/2000	YES	(2) COMBUSTION TURBINE, COMBINED CYCLE	816	OXIDATION CATALYST	2.0	LAER
HINES ENERGY COMPLEX, POWER BLOCK 2	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	COMBUSTION DESIGN, GCP	2.0	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	COMBUSTION DESIGN, GCP	2.0	BACT-PSD
AUGUSTA ENERGY CENTER	10/28/2001	?	(3) TURBINE, COMBINED CYCLE	2,000	CATALYTIC OXIDATION	2.0	BACT-PSD
MCINTOSH COMBINED-CYCLE FACILITY	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE, DUCT BURNER	1,902	CATALYTIC OXIDATION	2.0	BACT-PSD
WANSLEY COMBINED CYCLE ENERGY FACILITY	1/15/2002	?	(2) TURBINE, COMBINED CYCLE	1,336	GCP	2.0	BACT-PSD
FLEETWOOD COGENERATION ASSOCIATES*	4/22/1994	?	NG TURBINE (GE LM6000) WITH WASTE HEAT BOILER	360	GCP	2.0	BACT-OTHER
CHANNELVIEW COGENERATION FACILITY	12/9/1999	YES	(4) TURBINE COGENERATION FACILITY	1,600	PROPER COMBUSTION CONTROL	2.0	LAER
SAM RAYBURN GENERATION STATION	1/17/2002	?	(3) COMBUSTION TURBINES 7.8.9	360	GOOD COMBUSTION PRACTICES	2.0	BACT-OTHER
WISE COUNTY POWER	7/14/2000	NO	(2) COMBUSTION TURBINES STACK 1 & 2	1,840	FIRING PIPELINE NAT GAS AND OXIDATION CATALYST	2.0	BACT-OTHER
KAUFMAN COGEN LP	1/31/2000	?	(2) GAS TURBINES HRSG 1 & 2	1,440	NONE INDICATED	2.0	OTHER
HIDALGO ENERGY FACILITY	12/22/1998	NO	(2) GE-7241FA TURBINES HRSG-1 & -2	1,400	GOOD COMBUSTION DESIGN AND OPERATIONS	2.0	BACT-PSD
JACK COUNTY POWER PLANT	3/14/2000	NO	(2) GE-7241FA TURBINES, HRSG-1&-2	2,080	GOOD COMBUSTION DESIGN AND OPERATIONS	2.0	BACT-OTHER
ENNIS TRACTEBEL POWER	1/31/2002	NO	COMBUSTION TURBINE W/HEAT RECOVERY STEAM GENERATOR	2,800	NONE INDICATED	2.0	OTHER
GENPOWER EARLEYS, LLC	1/8/2002	?	(2) TURBINES, COMBINED CYCLE	1,715	GCP AND DESIGN	2.0	BACT-PSD
			(2) TURBINES, COMBINED CYCLE DUCT BURNERS	1,985		3.7	
GREGORY POWER FACILITY	6/16/1999	NO	(2) COMBUSTION TURBINES NO DUCT BURN EPN 101&102	1,480	GOOD COMBUSTION DESIGN AND PRACTICES	2.0	BACT-PSD
			(2) COMBUSTION TURBINES W/DUCT BURN EPN101&102	1,480		4.9	
UCC SEADRIFT OPERATIONS	10/20/1999	?	COGEN STACK COMBINED GT/HRSG&DB 1180	310	GCP	2.0	BACT-OTHER
			COGEN STACK TURBINE ONLY	310		7.0	
ROCKY MOUNTAIN ENERGY CENTER, LLC	8/11/2002	YES	(2) COMBINED CYCLE TURBINE	2,311	GOOD COMB CONTROL & OXIDATION CATALYST	2.0	BACT-PSD
SACRAMENTO COGENERATION AUTHORITY P&G	8/19/1994	?	TURBINE, GAS COMBINED CYCLE LM6000	421	OXIDATION CATALYST	2.0	BACT
FREMONT ENERGY CENTER, LLC	8/9/2001	YES	(2) COMBUSTION TURBINES COMB CYCLE W/O DUCT BURNER	1,440	NONE INDICATED	2.1	BACT-PSD
			(2) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	1,440		16.3	
MIRANT SUGAR CREEK, LLC	5/9/2001	YES	TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION, NATURAL GAS ONLY	2.1	BACT-PSD
LOST PINES 1 POWER PLANT	9/30/1999	?	(2) COMBINED CYCLE TURBINE	1,464	GCP	2.1	BACT-PSD
EL DORADO ENERGY, LLC	8/19/2004	?	(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN	1,900	FIRING OF NATURAL GAS ONLY IN THE CTG/HRSGS AND THE	2.1	BACT-PSD
			(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN, W/ DUCT BURNER	1,900	USE OF GOOD COMBUSTION CONTROL	2.7	
NORTH AMERICAN POWER GP -KIOWA CREEK	1/17/2001	?	(4) COMBINED CYCLE GAS TURBINES - GENERATORS	2,000	GOOD COMBUSTION CONTROL PRACTICES	2.2	BACT-PSD
EMERY GENERATING STATION	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,046	CATALYTIC OXIDATION	2.2	BACT-OTHER
FORT PIERCE REPOWERING	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	GOOD COMBUSTION AND OXIDATION CATALYST	2.2	
LIBERTY ELECTRIC POWER, LLC	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	2,000	GCP	2.2	LAER
CALPINE CORP.	5/2/2006	YES	NATURAL-GAS FIRED, COMBINED-CYCLE TURBINE	2,400	GCP AND OXIDATION CATALYST,	2.3	BACT-PSD
ASTORIA ENERGY, LLC	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	OXIDATION CATALYST	2.3	LAER
LAWRENCE ENERGY	9/24/2002	YES	(3) TURBINES, COMBINED CYCLE DUCT BURNERS OFF	1,440	COMBUSTION CONTROLS AND OXIDATION CATALYST	2.3	BACT-PSD
			(3) TURBINES, COMBINED CYCLE DUCT BURNERS ON	1,440		9.4	
FREEPORT COGENERATION FACILITY	6/26/1998	?	TURBINE/HRSG W/O DUCT BURNER FIRING	672	GOOD COMBUSTION	2.4	BACT-OTHER
			TURBINE/HRSG W/ DUCT BURNER FIRING	672		18.5	
CR WING COGENERATION PLANT	10/12/1999	NO	(2) CASE I: TURBINES E-1+E-2 W/O HRSG	720	NONE INDICATED	2.4	OTHER
			(2) CASE II: TURBINES E-1+E-2 W/ HRSG	720		6.7	
LIMERICK PARTNERS, LLC	4/9/2002	NO	(3) TURBINE, COMBINED CYCLE	1,467	OXIDATION CATALYST	2.4	LAER
ELECTRIC GENERATING STATION	8/31/2000	?	(6) ELECTRIC GENERATION TURBINES	2,000	GCP	2.4	LAER
COB ENERGY FACILITY, LLC	12/30/2003	?	(4) TURBINE, COMBINED CYCLE DUCT BURNER	2,300	CATALYTIC OXIDATION AND GCP	2.4	BACT-PSD
MADISON BELL PARTNERS LP	8/18/2009	NO	ELECTRICITY GENERATION	2,200	GOOD COMBUSTION PRACTICES	2.5	BACT
RIVER ROAD GENERATING PROJECT	10/25/1995	?	TURBINE	1,984	PIPELINE QUALITY NAT GAS	2.6	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	12/7/2001	?	(2) COMBND CYCLE COMBUST, TURBINE WESTINGHOUSE 501F	2,071	GCP	2.7	SIP
MIRANT AIRSIDE INDUSTRIAL PARK	12/6/2002	?	(2) TURBINE, COMBINED CYCLE	1,962	GCP	2.7	BACT-PSD
JACKSON COUNTY POWER, LLC	12/27/2001	YES	(4) COMBUSTION TURBINES COMBINED CYCLE, W/ DUCT BURNER	2,440	NONE INDICATED	2.7	BACT-PSD
BERKSHIRE POWER DEVELOPMENT, INC.	9/22/1997	?	TURBINE, COMBUSTION ABB GT24	1,792	DLN COMBUSTION TECHNOLOGY	2.7	BACT-PSD
SALT RIVER PROJ./ DESERT BASIN GENERATING PROJ.	9/10/1999	YES	TURBINE, COMBINED CYCLE	2,320	GCP	2.8	BACT-PSD
			TURBINE, COMB'D CYCLE W/ DUCT BURNERS	2,320		5.7	

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTUHR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT BASIS
ASSOCIATED ELECTRIC COOPERATIVE INC	1/23/2009	NO	COMBINED CYCLE COGENERATION	1,882	GOOD COMBUSTION	0.3	BACT
HARQUAHALA GENERATING PROJECT	2/15/2001	?	COMBINED CYCLE NATURAL GAS	2,362	COMBUSTION CONTROL AND USE OF NATURAL GAS	2.8	BACT-OTHER
PANDA GILA RIVER	2/23/2001	YES	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	NONE INDICATED	2.8	BACT-PSD
AES WOLF HOLLOW LP	7/20/2000	NO	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	3,228	NONE INDICATED	2.8	OTHER
SATSOP COMBUSTION TURBINE PROJECT*	1/2/2003	NO	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	OXIDATION CATALYST	2.8	BACT-PSD
PINNACLE WEST ENERGY CORP/REDHAWK GEN. FACILITY	12/2/2000	YES	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	GOOD COMBUSTION	2.8	BACT-PSD
HENRY COUNTY POWER	11/21/2002	?	(4) TURBINE, COMBINED CYCLE 100%LOAD, W/ DUCT FIRING	2,200	CLEAN FUEL, GOOD COMBUSTION AND DESIGN	2.9	BACT-PSD
			(4) TURBINE, COMBINED CYCLE 70%LOAD, W/ DUCT FIRING	958		6.1	
RELIANT ENERGY HOPE GENERATING FACILITY	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	1,488	VOC AS NMHC	2.9	BACT-PSD
KLAMATH GENERATION, LLC	3/12/2003	NO	(2) TURBINE, COMBINED CYCLE DUCT BURNER	1,920	CATALYTIC OXIDATION	2.9	BACT-PSD
ONEHALIS GENERATION FACILITY	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	CATALYTIC OXIDATION	3.0	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	10/6/1997	?	TURBINE, COMBUSTION ABB GT11N2	1,327	DLN COMBUSTION	3.0	BACT-PSD
DOVE VALLEY ENERGY PARTNERS, LLC	8/10/2003	?	(2) COMBUSTION TURBINE W/ DUCT BURNER	2,480	OXIDATION CATALYST	3.0	BACT-OTHER
GENOVA ARKANSAS I, LLC	8/23/2002	?	(2) TURBINE, COMBINED CYCLE (SWH)	1,360	GCP	3.0	BACT-PSD
OLEANDER POWER PROJECT	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	CLEAN FUELS AND GCP	3.0	BACT-PSD
LOWER MOUNT BETHEL ENERGY, LLC	10/20/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	OXIDATION CATALYST	3.0	LAER
PINE STATE POWER	6/30/1994	?	(2) COMBINED CYCLE TURBINES #1 & #2	1,127	EFFECTIVE FUEL COMBUSTION	3.1	BACT-PSD
AEC - MCWILLIAMS PLANT	3/3/2000	YES	(2) TURBINES, COMBINED CYCLE COMBUSTION	1,328	EFFICIENT COMBUSTION	3.1	BACT-PSD
FULTON COGEN PLANT	9/15/1994	?	GAS TURBINE	500	NONE INDICATED	3.1	BACT-OTHER
			STACK EMISSIONS (TURBINE & DUCT BURNER)	610		31.2	
SEPCO	10/6/1994	?	TURBINE, GAS COMBINED CYCLE GE MODEL 7	920	OXIDATION CATALYST	3.1	BACT
AES RED OAK LLC	10/24/2001	?	(3) 501F TURBINES WITH HRSG	1,967	NONE INDICATED	3.2	BACT-PSD
SWEENEY COGENERATION FACILITY	9/30/1998	NO	(4) GAS TURBINE/HRSG 1-4, EPN1-4	970	NONE INDICATED	3.2	OTHER
LAKE WORTH GENERATION, LLC	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	COMBUSTION DESIGN AND GOOD OPERATING PRACTICE	3.3	BACT-OTHER
KALKASKA GENERATING, INC	2/4/2003	?	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	OXIDATION CATALYST	3.5	BACT-PSD
RELIANT ENERGY HUNTERSTOWN, LLC	6/15/2001	?	(3) COMBUSTION TURBINE COMBINED CYCLE	2,400	NONE INDICATED	3.5	LAER
SC ELECTRIC AND GAS COMPANY - URQUHART STATION	9/22/2000	?	(2) TURBINES, COMBINED CYCLE	1,795	COMBUSTION CONTROLS	3.5	BACT-PSD
HAYWOOD ENERGY CENTER, LLC	2/1/2002	?	TURBINE, COMBINED CYCLE W/ AND W/O DUCT FIRING	1,990	GCP	3.5	BACT-PSD
KLEEN ENERGY SYSTEMS, LLC	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2 (NATURAL GAS FIRED) WITH	2,142	CO CATALYST	3.6	BACT
WHITING CLEAN ENERGY, INC.	7/20/2000	YES	(2) TURBINES, COMBUSTION W/DUCT BURNER	1,735	GCP	3.6	BACT-PSD
			(2) TURBINES, COMBUSTION	1,735		12.5	
KM POWER COMPANY	6/26/2000	YES	TURBINE, GE 7EA FRAME COMBINED CYCLE	896	NONE INDICATED	3.7	BACT-PSD
MIDDLETON FACILITY	10/19/2001	?	(2) GAS TURBINES WITH DUCT BURNERS	2,097	NONE INDICATED	3.8	BACT-PSD
TPS - DELL, LLC	8/8/2000	YES	(2) TURBINE	2,560	GCP	3.8	BACT-PSD
KM POWER COMPANY	6/26/2000	YES	(6) TURBINE GE LM 6000 COMBINED CYCLE	416	NONE INDICATED	3.9	BACT-PSD
LAMAR POWER PARTNERS II LLC	6/22/2009	NO	ELECTRICITY GENERATION	2,000	GOOD COMBUSTION PRACTICES	4	BACT
SOUTHERN COMPANY/GEORGIA POWER		?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	4.0	BACT
	1/7/2008	?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	1.8	BACT
NEW ATHENS GENERATING CO. LLC	1/19/2007	NO	3 WESTINGHOUSE MODEL 501G GAS COMBINED CYCLE TURBINES	3,100	GOOD COMBUSTION CONTROL	4.0	LAER
SIERRA PACIFIC POWER COMPANY	8/16/2005	NO	TURBINE, COMBINED CYCLE COMBUSTION #2 WITH HRSG & DB	2,448	OXIDATION CATALYST	4.0	BACT-PSD
			TURBINE, COMBINED CYCLE COMBUSTION #1 WITH HRSG & DB	2,448	OXIDATION CATALYST	4.0	BACT-PSD
ATHENS GENERATING COMPANY, L.P.	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	EFFICIENT COMBUSTION TECHNIQUES	4.0	LAER
HOT SPRINGS POWER PROJECT	11/9/2001	?	(2) COMBUSTION TURBINE, HRSG, DUCT BURNER	2,800	CO CATALYST, GOOD COMBUSTION	4.0	BACT-PSD
SALT RIVER PROJECT/SANTAN GEN. PLANT	3/7/2003	?	TURBINE, COMBINED CYCLE, DUCT BURNER	1,400	CATALYTIC OXIDIZER	4.0	LAER
RENAISSANCE POWER LLC	6/7/2001	?	(3) TURBINES, STATIONARY GAS COMBINED CYCLE	1,360	GCP, OXIDATION CATALYST	4.0	BACT-PSD
CHOCTAW GAS GENERATION, LLC	12/13/2001	?	(2) TURBINE, COMBINED CYCLE	2,737	GCP	4.0	BACT-PSD
EXXON-MOBIL BEAUMONT REFINERY	3/14/2000	?	(3) COMBUSTION TURBINES W/DUCT BURN 61STK001-003	1,464	FIRING NAT GAS, AND DLN BURNERS	4.0	BACT-OTHER
ENNIS TRACTEBEL POWER	1/31/2003	NO	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	GCP	4.0	BACT-OTHER
INDECK-NILES, LLC	12/2/2001	?	(4) GAS TURBINES COMBINED CYCLE	2,152	NONE INDICATED	4.0	BACT-PSD
			(4) GAS TURBINES COMBINED CYCLE W/ DUCT BURNER	2,152		5.2	
BLUE MOUNTAIN POWER, LP	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,224	OXIDATION CATALYST	4.0	LAER
			COMBUSTION TURBINE W/ HEAT RECOVERY BOILER (75% LOAD)	1,224		7.6	
MIDLAND COGENERATION	7/26/2001	?	(2) GAS TURBINE COMBINED CYCLE	2,096	NONE INDICATED	4.2	BACT-PSD
			TWO COMBINED CYCLE GAS TURBINES	2,110	PROPER OPERATING PRACTICES	4.5	BACT
MURRAY ENERGY FACILITY	10/23/2002	?	(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,480	GCP	4.5	BACT-PSD
NORTHERN STATES POWER CO. DBA XCEL ENERGY	5/16/2006	YES	TWO COMBUSTION TURBINES	1,885	GOOD COMBUSTION PRACTICES	4.6	BACT-PSD
HIDALGO ENERGY FACILITY	12/22/1998	NO	NEW GAS TURBINE PHASE 3 ONLYSTK-701	1,360	COMBUSTION CONTROL	4.6	BACT-OTHER
MOBILE ENERGY LLC	1/5/1999	YES	TURBINE, GAS COMBINED CYCLE	1,344	GCP	4.7	BACT-PSD
GPC - GOAT ROCK COMBINED CYCLE PLANT	4/10/2000	YES	(6) COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	GCP	4.7	BACT-PSD
AUTAGAVILLE COMBINED CYCLE PLANT	1/8/2001	?	(4) COMBUSTION TURBINES COMBINED CYCLE	1,384	GCP	4.7	BACT-PSD
PEDRICKTOWN COGENERATION PLANT (PCLP)	9/19/1995	?	TURBINE WITH DUCT BURNER	1,048	NONE INDICATED	4.7	BACT-PSD
OIPS - GRAND TOWER POWER STATION	2/25/2000	YES	(2) COMBINED CYCLE COMBUSTION TURBINE (UNITS 1+2)	2,347	GCP	4.8	BACT-PSD
SOUTHWEST ELECTRIC POWER COMPANY	3/20/2008	YES	(2) COMBINED CYCLE GAS TURBINES	1,055	PROPER OPERATING PRACTICES	4.9	BACT-PSD
PORT WESTWARD PLANT	1/16/2002	?	(2) COMBUSTION TURBINES WITH DUCT BURNER	2,600	CO CATALYST, GOOD COMBUSTION	4.9	BACT-PSD
PSEG LAWRENCEBURG ENERGY FACILITY	6/7/2001	YES	(4) TURBINE, COMBINED CYCLE	477	GOOD COMBUSTION, NATURAL GAS ONLY	4.9	BACT-PSD
GENPOWER KELLEY LLC	1/12/2001	?	(4) TURBINE, COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	EFFICIENT COMBUSTION	4.9	BACT-PSD
KLEEN ENERGY SYSTEMS, LLC	2/25/2008	NO	(2) SIEMENS SGT6-5000F TURBINES (HRSG & NG DUCT BURNER)	1,071	EMISSION RATES NOT BASED ON RED. FROM CO CAT.	5.0	BACT-PSD
ECOELECTRICA, L.P.	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	COMBUSTION CONTROLS	5.0	BACT-PSD
WALLULA POWER PLANT	1/3/2003	NO	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	GCP	5.0	BACT-OTHER
SUMAS ENERGY 2 GENERATION FACILITY	4/17/2003	NO	(2) TURBINES, COMBINED CYCLE	2,640	GCP	5.2	BACT-PSD
MESQUITE GENERATING STATION	3/22/2001	?	TURBINE, COMBINED CYCLE	1,923	OXIDATION CATALYST	5.2	BACT-PSD
PANDA-KATHLEEN, L.P.	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, ABB	600	NONE INDICATED	5.2	BACT-OTHER
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	4/9/1996	YES	COMBUSTION TURBINE COMBINED CYCLE	1,299	GOOD COMBUSTION CONTROLS	5.2	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	12/31/2002	?	(2) HRSG/TURBINES 001&002	1,400	GOOD COMBUSTION CONTROLS	5.3	LAER
DUKE ENERGY FAYETTE, LLC	1/30/2002	?	(2) TURBINE, COMBINED CYCLE	2,240	OXIDATION CATALYST	5.3	LAER
REDBUD POWER PLANT	3/18/2002	?	(4) COMBUSTION TURBINE AND DUCT BURNERS	1,832	GCP/DESIGN	5.3	BACT-PSD
TENASKA ALABAMA GENERATING STATION	11/29/1999	YES	(3) TURBINE & DUCT BURNER	1,360	EFFICIENT COMBUSTION	5.5	BACT-PSD
COLUMBIA ENERGY LLC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	GCP WITH DLN COMBUSTOR	5.6	BACT-PSD
TENASKA GATEWAY GENERATING STATION	5/7/1999	NO	(3) TURBINE/HRSG NO.1,2,3	3,168	GOOD COMBUSTION DESIGN AND OPERATIONS	5.6	OTHER
BARTON SHOALS ENERGY	7/12/2002	?	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	GCP	5.6	BACT-PSD
FORSYTH ENERGY PROJECTS, LLC	9/29/2005	YES	TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	1,844	GCP AND EFFICIENT PROCESS DESIGN	5.7	BACT-PSD
XCEL ENERGY, BLACK DOG ELECTRIC GEN STATION	11/17/2000	?	COMBUSTION TURBINE WITH HRSG	1,917	USE OF NATURAL GAS AS THE EXCLUSIVE FUEL	5.7	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
ASSOCIATED ELECTRIC COOPERATIVE INC	1/23/2009	NO	COMBINED CYCLE COGENERATION	1,882	GOOD COMBUSTION	0.3	BACT
BLACK DOG GENERATING PLANT	1/12/2001	?	TURBINE, COMBINED CYCLE	2,320	GOOD COMBUSTION CONTROL	5.7	BACT-PSD
FORSYTH ENERGY PLANT	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,844	GCP AND EFFICIENT PROCESS DESIGN	5.7	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	12/31/2002	?	(2) HRSG/TURBINES 003&004	1,400	GOOD COMBUSTION CONTROLS	5.7	LAER
WYANDOTTE ENERGY	2/8/1999	YES	(2) TURBINE, COMBINED CYCLE POWER PLANT	2,000	NONE INDICATED	6.0	BACT-PSD
HORSESHOE ENERGY PROJECT	2/12/2002	?	TURBINES AND DUCT BURNERS	2,480	CATALYTIC OXIDATION	6.0	BACT-PSD
GOLDENDALE ENERGY PROJECT	2/23/2001	?	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	OXIDATION CATALYST AND GCP	6.0	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/ DUCT FIRING	1,360	EFFICIENT COMBUSTION	6.1	BACT-PSD
PASADENA 2 POWER FACILITY	9/30/1998	?	(2) TURBINE/HRSG (CG-2, CG-3)	1,280	PROPER COMBUSTION PRACTICES	6.2	LAER
GPC - GOAT ROCK COMBINED CYCLE PLANT	4/10/2000	YES	(2) COMBINED CYCLE COMB. TURB.	1,384	EFFICIENT COMBUSTION PRACTICES	6.2	BACT-PSD
LSP - COTTAGE GROVE, L.P.	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	NATURAL GAS COMBUSTION	6.2	BACT-PSD
DUKE ENERGY DALE, LLC	12/11/2001	?	(2) GE 7FA COMB. CYCLE W/DB	1,928	EFFICIENT COMBUSTION	6.4	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	10/23/2001	?	(2) GE COM. CYCLE UNITS W/HRSG & 550 MMBTU/HR DB	2,407	EFFICIENT COMBUSTION	6.4	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	9/6/2002	?	(2) TURBINES, COMBINED CYCLE	1,338	CLEAN FUEL - NATURAL GAS ONLY	6.6	BACT-PSD
PANDA-KATHLEEN, L.P.	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, GE	600	NONE INDICATED	7.0	BACT-OTHER
INTERNATIONAL PAPER	2/24/1994	?	TURBINE/HRSG, GAS COGEN	338	COMBUSTION CONTROLS, FUEL SELECTION	7.0	BACT-OTHER
FAYETTEVILLE GENERATION, LLC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,384	COMBUSTION CONTROL	7.0	BACT-PSD
REDBUD POWER PLT	8/15/2001	?	(4) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	1,698	OPERATIONAL CONTROLS	7.0	BACT-PSD
THUNDERBIRD POWER PLT	5/17/2001	?	(3) TURBINES, COMBINED CYCLE, W/ DUCT FIRING	1,698	DLN COMBUSTION	7.0	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	10/1/1999	?	(3) TURBINES W/ DUCT BURNERS, COMBINED CYCLE	2,133	GCP/DESIGN	7.0	BACT-PSD
VH BRAUNIG A VON ROSENBERG PLANT	10/14/1998	NO	(2) COMBUSTION TURBINES & HRSG W/ DUCT BURN E5&6	1,488	NONE INDICATED	7.0	OTHER
ROCHE VITAMINS	10/8/1997	?	COMBUSTION TURBINE	457	LNB	7.2	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	10/9/2001	NO	COMBUSTION TURBINE W/ DUCT BURNER	623	GCP	10.0	BACT-PSD
			TURBINE, COMBINED CYCLE (<75% LOAD)	1,480		7.3	
			TURBINE, COMBINED CYCLE (75%-100% LOAD)	1,480		13.5	
RELIANT ENERGY- CHANNELVIEW COGENERATION	10/29/2001	NO	(4) TURBINE/HRSG #1-#4	2,350	NONE INDICATED	7.4	OTHER
BASF CORPORATION	12/30/1997	?	(2) TURBINE, COGEN UNIT GE FRAME 6	339	NONE INDICATED	7.5	BACT-PSD
SILAS RAY POWER STATION UNIT 9	7/30/1997	NO	UNIT NO. 9 CASE I/ SHORT TERM, W/ DUCT BURNER	400	NONE INDICATED	8.4	BACT-PSD
			UNIT NO. 9 CASE III SHORT-TERM, W/ DUCT BURNER	400		10.1	
DUKE ENERGY-JACKSON FACILITY	4/1/2002	NO	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION CONTROL	8.4	BACT-PSD
GENOVA ARKANSAS I, LLC	8/23/2002	?	(2) TURBINE, COMBINED CYCLE (MH)	1,360	GCP/CO OXIDATION CATALYST	8.4	BACT-PSD
GENOVA OK I POWER PROJECT	6/13/2002	?	MHI COMBUSTION TURBINE & DUCT BURNERS	1,767	CATALYTIC OXIDATION	8.4	BACT-PSD
LIMA ENERGY COMPANY	3/26/2002	?	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	NONE INDICATED	8.6	BACT-PSD
CALEDONIA POWER LLC	3/27/2001	?	ELECTRIC POWER GENERATION TURBINE & DUCT BURNER	1,700	NONE INDICATED	8.9	BACT-OTHER
EDINBURG ENERGY LIMITED PARTNERSHIP	1/8/2002	NO	(4) COMBINED CYCLE GAS TURBINE ABB MODEL GT24	1,440	NONE INDICATED	9.0	BACT-PSD
BATESVILLE GENERATION FACILITY	11/25/1997	?	(3) TURBINE, EMISSION POINT AA-001,002,003 (75%-100% LOAD)	2,248	NONE INDICATED	9.3	BACT-PSD
			(3) TURBINE, EMISSION POINT AA-001,002,003 (<75% LOAD)	2,248		10.0	
			(3) COMBINED CYCLE COMBUSTION TURBINE UNITS	1,360		9.4	
TENASKA ALABAMA II GENERATING STATION	2/16/2001	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	CATALYTIC AFTERBURNER	9.4	BACT-PSD
BLUEWATER ENERGY CENTER LLC	1/7/2003	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	NONE INDICATED	9.5	OTHER
CONTINENTAL ENERGY SERVICES, INC., SILVER BOW GEN	6/7/2002	NO	(4) COMBINED CYCLE CT	1,400	NONE INDICATED	9.6	BACT-PSD
LSP NELSON ENERGY, LLC	1/28/2000	?	TURBINE, COMBINED CYCLE W/ DUCT BURNERS	2,166	GCP AND COMBUSTION CONTROL	9.6	BACT-PSD
LSP - BATESVILLE GENERATION FACILITY	11/13/2001	?	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	NONE INDICATED	12.6	OTHER
			COMBINED CYCLE COMBUSTION TURBINE GENERATION	2,100		9.6	
			(3) TURBINE/HRSGS CTG1-3	2,000		9.7	
BAYTOWN COGENERATION PLANT	2/11/2000	?	(4) TURBINES, COMBINED CYCLE	1,372	GOOD OPERATING PRACTICE	9.7	BACT-PSD
SMITH POCOLA ENERGY PROJECT	8/16/2001	?	(2) GAS TURBINES COMBINED CYCLE	2,205	CAT-OX SYSTEM	10.0	BACT-PSD
MIRANT WYANDOTTE LLC	7/25/2001	YES	(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER, POWER AUG.	2,200	CATALYTIC OXIDIZER & GOOD COMBUSTION TECHNIQUES	10.0	BACT-OTHER
MIRANT WYANDOTTE LLC	1/28/2003	YES	(3) TURBINES, COMBINED CYCLE	1,967	EFFICIENT COMBUSTION	10.2	BACT-PSD
DECATUR ENERGY CENTER	6/6/2000	?	(4) TURBINES COMBINED CYCLE DUCT BURNERS ON	1,376	NONE INDICATED	11.6	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/13/2001	?	TURBINE, W/ DUCT BURNER	1,360	EFFICIENT COMBUSTION	12.5	BACT-PSD
ALABAMA POWER CO. - THEODORE COGENERATION	3/16/1999	YES	COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	1,515	GCP	13.6	BACT-PSD
GRAYS FERRY COGEN PARTNERSHIP	3/21/2001	?	(2) TURBINE, COMBINED	1,360	GCP	13.7	BACT-OTHER
KANSAS CITY POWER & LIGHT CO. - HAWTHORN STATION	8/19/1999	YES	TURBINE COMBINED CYCLE UNIT	848	EFFICIENT COMBUSTION	15.0	BACT-PSD
MCWILLIAMS PLANT	4/14/1995	YES	(3) TURBINES, COMBINED CYCLE	2,375	BEST COMBUSTION CONTROL PRACTICES	15.5	BACT-PSD
TENASKA FLUVANNA	1/11/2002	YES	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	GCP	17.1	BACT-OTHER
CHOCOLATE BAYOU PLANT	3/24/2003	NO	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	EFFICIENT & COMPLETE COMBUSTION	19.3	LAER
DEER PARK ENERGY CENTER	8/22/2001	?	(2) TURBINE/DUCT BURNER STGT1 & T2	336	GOOD COMBUSTION DESIGN AND OPERATIONS	19.7	BACT-PSD
PLANT NO. 2	1/8/1999	?	(2) TURBINES, COMBINED CYCLE	1,701	GOOD COMBUSTION AND DLN TECHNOLOGY	20.9	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	12/10/2001	?	(2) TURBINES, COMBINED CYCLE	602	INTERNAL COMBUSTION CONTROLS	22.6	BACT-OTHER
WEST CAMPUS COGENERATION COMPANY	5/2/1994	NO	(4) TURBINES, COMBINED CYCLE, WITH DUCT BURNER	2,168	EFFICIENT COMBUSTION PRACTICES	22.8	BACT-PSD
PIKE GENERATION FACILITY	9/24/2002	NO	COMBUSTION TURBINE	360	DESIGN	24.9	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GENERATING PLANT	9/6/1996	?	(2) TURBINE/HRSG CTG-1 & CTG-2	1,920	PROPER COMBUSTION	28.4	BACT-PSD
MAGIC VALLEY GENERATION STATION	12/31/1998	NO	COGENERATION TRAIN 2 AND 3 (TURBINE AND DUCT BURNER EMISSIONS)	140	PROPER COMBUSTION CONTROL	34.2	BACT-PSD
INEOS USA LLC	8/29/2006	YES					

SCR = SELECTIVE CATALYTIC REDUCTION, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	(2) COMBINED CYCLE TURBINES, 75% LOAD	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.00130	BACT
			(2) COMBINED CYCLE TURBINES	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.00930	
			(2) COMBINED CYCLE TURBINES, 60% LOAD	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.01280	
LAKEWOOD COGENERATION, L.P.	LAKEWOOD TWP, NJ	4/1/1991	TURBINES (NATURAL GAS) (2)	1190	TURBINE DESIGN	0.0023	BACT-OTHER
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	(2) COMBUSTION TURBINES #1 & #2	1,836	NONE INDICATED	0.00245	BACT-PSD
TRANSALTA CENTRALIA GENERATION LLC	CENTRALIA, WA	2/22/2002	(4)TURBINE/HRSG	1,504	GCP	0.00273	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE, INC. - CHOUTEAU POW	MAYES, OK	3/24/1999	(2) COMBUSTION TURBINES COMBINED CYCLE	1,783	USE OF LOW ASH FUEL (NAT GAS) COMBUSTION CONTROLS	0.00300	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	4/17/2003	(2) TURBINES, COMBINED CYCLE	2,640	GCP LOW SULFUR FUEL	0.00306	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, AL	10/3/2001	(6) COMBINED CYCLE COMB. TURB. UNITS W/ DUCT FIRING	1,360	EFFICIENT COMBUSTION	0.00350	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE, INC. - CHOUTEAU POW	MAYES, OK	1/23/2009	COMBINED CYCLE COGENERATION >25MW	1,882	NATURAL GAS FUEL	0.00350	BACT
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	0.00353	OTHER
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	COMBINED CYCLE TURBINES	3,573	USE OF PIPELINE QUALITY NATURAL GAS	0.00367	BACT
FORSYTH ENERGY PLANT	NC	9/29/2005	TURBINE, COMBINED CYCLE NATURAL GAS (3)	1844.3		0.0037	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	(2) TURBINES, COMBINED CYCLE	1,915	CLEAN BURNING FUELS, GCP	0.00381	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	9/6/2002	(2) TURBINES, COMBINED CYCLE	1,338	CLEAN FUEL -- NATURAL GAS ONLY	0.00390	BACT-PSD
IINDECK-NILES, LLC	NILES, MI	12/2/2001	(4) GAS TURBINES COMBINED CYCLE	2,152	NONE INDICATED	0.00395	BACT-PSD
SELKIRK COGENERATION PARTNERS, L.P.	SELKIRK, NY	6/18/1992	COMBUSTION TURBINES (2) (252 MW)	1173	COMBUSTION CONTROLS AND FUEL SPEC: LOW SULFUR OIL	0.0040	BACT-OTHER
KING POWER STATION	HARRIS, TX	8/5/2010	TURBINE	2,700	USE OF LOW SULFUR FUEL	0.0041	BACT
KLAMATH GENERATION, LLC	PORTLAND, OR	3/12/2003	(2) TURBINE, COMBINED CYCLE DUCT BURNER	1,920	NATURAL GAS < 1 GR S/100 SCF OF GAS	0.00420	BACT-PSD
UMATILLA GENERATING COMPANY, L.P.	OREGON	5/11/2004	(2) TURBINE, COMBINED CYCLE & DUCT BURNER	2,007	GOOD COMBUSTION AND FIRING NATURAL GAS	0.00420	BACT-OTHER
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	COMBUSTION TURBINE COMBINED CYCLE	2,320	GOOD COMBUSTION AND CLEAN FUELS	0.00431	BACT-OTHER
THOMAS B. FITZHUGH GENERATING STATION	OZARK, AR	2/15/2002	TURBINE, COMBINED CYCLE, SWPC 501D5A	1,365	LOW ASH FUELS, GCP	0.00432	BACT-PSD
PINE STATE POWER	JAY, ME	6/30/1994	(2) COMBINED CYCLE TURBINES #1 & #2	1,127	CLEAN FUEL	0.00444	BACT-PSD
WHITING CLEAN ENERGY, INC.	WHITING, IN	7/20/2000	(2) TURBINES, COMBUSTION, W/ AND W/O DUCT BURNER	1,735	GCP AND NATURAL GAS FUEL	0.00450	BACT-PSD
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	TURBINE	1,984	PIPELINE QUALITY NAT GAS	0.00454	BACT-PSD
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,083	CLEAN FUELS	0.00462	BACT-PSD
EL DORADO ENERGY, LLC	CLARK CO., NV	8/19/2004	(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN	1,900	NONE INDICATED	0.00474	LAER
			(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN, W/ DB	1,900		0.006105	
PUBLIC SERVICE OF COLO.-FORT ST VRAIN	PLATTEVILLE, CO	5/1/1996	(2) COMBINED CYCLE TURBINES	1,884	PIPELINE QUALITY GAS, CLOSE MONITORING/CONTROL/COMB	0.00478	BACT-PSD
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	TURBINE, COMBINED CYCLE	1,360	CLEAN FUELS	0.00490	BACT-PSD
MILLENNIUM POWER PARTNER, LP	CHARLTON, MA	2/2/1998	TURBINE, COMBUSTION, WESTINGHOUSE MODEL 501G	2,534	DLN TECHNOLOGY IN CONJUNCTION WITH SCR	0.0050	BACT-PSD
NARRAGANSETT ELECTRIC/NEW ENGLAND POWER CO.	PROVIDENCE, RI	4/13/1992	TURBINE, GAS AND DUCT BURNER	1,360	USE OF NATURAL GAS	0.0050	BACT-PSD
DECATUR ENERGY CENTER	DECATUR, AL	6/6/2000	(3) TURBINES, COMBINED CYCLE	1,867	NATURAL GAS ONLY EFFICIENT COMBUSTION	0.00500	BACT-PSD
MILLENNIUM POWER PARTNER, LP	CHARLTON, MA	2/2/1998	TURBINE, COMBUSTION WESTINGHOUSE MODEL 501G	2,534	DLN COMBUSTION TECHNOLOGY	0.00500	BACT-PSD
NORTON ENERGY STORAGE, LLC	OHIO	5/23/2002	(9) COMBUSTION TURBINE COMB CYCLE W/O DUCT BURNER	2,400	NONE INDICATED	0.00500	BACT-PSD
			(9) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	2,400		0.00542	
APS WEST PHOENIX	PHOENIX, AZ	5/26/2000	TURBINE, COMBINED CYCLE, DUCT BURNER CC5	4,240	USE OF NATURAL GAS AND GOOD COMBUSTION	0.00510	LAER
CPV WARREN	VA	1/14/2008	ELECTRIC GENERATION - SCENARIO 2	1,717	WITHOUT DUCT FIRING	0.0051	UNKNOWN
			ELECTRIC GENERATION - SCENARIO 1			0.0073	N/A
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	SIEMENS SGT6-5000F TURBINE #1 AND #2 W/ 445 MMBTU/HR DUCT BURNER	2,142	NONE INDICATED	0.00514	BACT
VINEYARD ENERGY CENTER, LLC	VINEYARD, UT	5/11/2004	(3) SWPC 501F COMBUSTION TURBINES	1,738	NONE INDICATED	0.00518	BACT
			(3) SWPC 501F COMBUSTION TURBINES, W/ DUCT BURNER	2,400		0.00631	
KLAMATH FALLS COGENERATION FACILITY	PORTLAND, OR	1/27/1998	COMBUSTION TURBINE (1 OR 2)	1,700	GCP	0.00529	BACT-PSD
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	GCP. USE OF NG/LPG	0.00530	BACT-PSD
APS WEST PHOENIX	PHOENIX, AZ	5/26/2000	TURBINE, COMBINED CYCLE, DUCT BURNER CC4	1,040	USE OF NATURAL GAS AND GCP	0.00550	LAER
CAROLINA POWER AND LIGHT - RICHMOND CO. FACILITY	RALEIGH, NC	12/21/2000	(2) TURBINES, COMBINED CYCLE	1,628	COMBUSTION CONTROL	0.00550	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	(2) TURBINE, COMBINED CYCLE	1,628	COMBUSTION CONTROL	0.00550	BACT-PSD
CON ED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	NONE INDICATED	0.00554	LAER
			(2) COMBUSTION TURBINES, W/ DUCT BURNER	3,165		0.00786	
SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO, CA	9/1/2003	(2) GAS TURBINES	1,611	GOOD COMBUSTION CONTROL	0.00559	LAER
CPV VALLEY	WAYWAYANDA, NY	8/1/2013	COMBUSTION TURBINES >80% LOAD		LOW SULFUR CLEAN FUELS	0.00560	BACT-PSD
			COMBUSTION TURBINES <80% LOAD			0.00730	
TIGER BAY LP	FT. MEADE, FL	5/17/1993	TURBINE, GAS	1,615	GOOD COMBUSTION PRACTICES	0.0056	BACT-PSD
FLORIDA POWER AND LIGHT	NORTH PALM BEACH, FL	6/5/1991	TURBINE, GAS, 4 EACH	400	COMBUSTION CONTROL	0.0056	BACT-PSD
PANDA GILA RIVER	GILA BEND, AZ	2/23/2001	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	NONE INDICATED	0.00560	BACT-PSD
CRICKET VALLEY ENERGY CENTER	DOVER PLAINS, NY	9/27/2012	GE 7FA TURBINE	2,000	CLEAN FUEL	0.00600	BACT-PSD
BARTON SHOALS ENERGY	ENGLEWOOD, AL	7/12/2002	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	GCP	0.00600	BACT-PSD
COB ENERGY FACILITY, LLC	OREGON	12/30/2003	(4) TURBINE, COMBINED CYCLE DUCT BURNER	2,300	GOOD COMBUSTION AND FIRING NATURAL GAS	0.00609	BACT-PSD
VALERO REFINING COMPANY	BENICIA, CA	1/11/2000	(2) COMBUSTION TURBINE, COMBINED CYCLE	816	GCP	0.00610	LAER
SARANAC ENERGY COMPANY	PLATTSBURGH, NY	7/31/1992	TURBINES, COMBUSTION (2) (NATURAL GAS)	1,123	COMBUSTION CONTROLS	0.0062	BACT-OTHER
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	MOSELL, MS	4/9/1996	COMBUSTION TURBINE COMBINED CYCLE	1,299	GOOD COMBUSTION CONTROLS	0.00624	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	TURBINE, COMBINED CYCLE COMBUSTION	1,120	DRY LNB, GOOD COMBUSTION	0.00625	BACT-PSD
HAYWOOD ENERGY CENTER, LLC	TENNESSEE	2/1/2002	TURBINE, COMBINED CYCLE W/O DUCT FIRING	1,990	CLEAN FUELS, GCP	0.00628	BACT-PSD
			TURBINE, COMBINED CYCLE W/ DUCT FIRING	1,990		0.00879	
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	(1) COMBINED CYCLE GAS TURBINE	1,742	CLEAN FUELS, GCP	0.00631	BACT
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	(1) COMBINED CYCLE GAS TURBINE	1,742	PIPELINE NATURAL GAS, COMBUSTION CONTROLS	0.00631	BACT
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	(1) COMBINED CYCLE GAS TURBINE	1,742	PIPELINE NATURAL GAS, COMBUSTION CONTROLS	0.00631	BACT
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	(2) GE-7241FA TURBINES HRSG-1 & -2	1,400	FIRING NAT GAS	0.00643	BACT-PSD
CPV GULFCOAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	TURBINE, COMBINED CYCLE	1,700	COMBUSTION CONTROLS, LOW SULFUR FUELS	0.00647	BACT-PSD
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	COMBINED CYCLE COMBUSTION TURBINE	1,700	INHERENTLY CLEAN FUELS	0.00647	BACT-PSD
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	(4) COMBINED CYCLE TURBINES	2,000	CLEAN FUELS	0.00650	BACT
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	TURBINE, COMBINED CYCLE	1,360	GCP, CLEAN FUEL	0.00650	BACT-PSD
ROCKY MOUNTAIN ENERGY CENTER, LLC.	LITTLETON, CO	8/11/2002	(2) COMBINED-CYCLE TURBINE	2,311	USE OF PIPELINE QUALITY NATURAL GAS AND GCP	0.00650	BACT-PSD
CPV PIERCE	FLORIDA	8/7/2001	TURBINE, COMBINED CYCLE	1,680	CLEAN FUELS GOOD COMBUSTION	0.00655	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	TURBINE, COMBINED CYCLE	1,680	CLEAN FUELS GOOD COMBUSTION	0.00655	BACT-PSD
SALT RIVER / DESERT BASIN GENERATING PROJECT	PHOENIX, AZ	9/10/1999	TURBINE, COMBINED CYCLE	2,320	GCP	0.00659	BACT-PSD
			TURBINE, COMB'D CYCLE W/ DUCT BURNERS	2,320		0.00991	
CHUGACH ELECTRIC ASSOCIATION, INC.	ANCHORAGE, AK	12/20/2010	GE LM6000PF-25 Turbines (4)	358	GOOD COMBUSTION PRACTICES.	0.00660	BACT
			GE LM6000PF-25 Turbines (4)	358	GOOD COMBUSTION PRACTICES.	0.00660	BACT
			GE LM6000PF-25 Turbines (4)	358	GOOD COMBUSTION PRACTICES.	0.00660	BACT
FREMONT ENERGY CENTER, LLC	OHIO	8/9/2001	(2) COMBUSTION TURBINES COMB CYCLE W/O DUCT BURNER	1,440	NONE INDICATED	0.00660	BACT-PSD
			(2) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	1,440		0.00910	
LORDSBURG L.P.	LORDSBURG, NM	6/18/1997	TURBINE, NATURAL GAS-FIRED, ELEC. GEN.	800	HIGH COMBUSTION EFFICIENCY USE OF NO.2 LOW SULFUR FUEL OIL (LESS THAN 0.05% BY WT.)	0.0066	BACT-PSD
ONETA GENERATING STA	OKLAHOMA	1/21/2000	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	USE OF LOW ASH FUELS	0.00662	BACT-PSD
MEAD COATED BOARD, INC.	PHENIX CITY, AL	3/12/1997	COMBINED CYCLE TURBINE (25 MW)	568	EFFICIENT OPERATION OF THE COMBUSTION TURBINE	0.00680	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	(3) TURBINES, COMBINED CYCLE	2,375	USE OF NATURAL GAS/CLEAN FUEL	0.00682	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	CASE I: TURBINE E-1 W/O HRSG	720	NONE INDICATED	0.00694	OTHER
			CASE II: TURBINE E-1 W/ HRSG	720		0.00750	
MUSTANG ENERGY PROJECT	OKLAHOMA	2/12/2002	COMBUSTION TURBINES W/ DUCT BURNERS	2,480	USE OF NO-ASH FUEL AND EFFICIENT COMBUSTION	0.00700	BACT-PSD
DUKE ENERGY DALE, LLC	HOUSTON, AL	12/11/2001	(2) GE 7FA COMB. CYCLE W/DB	1,928	NATURAL GAS AS EXCLUSIVE FUEL	0.00720	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	HOUSTON, AL	10/23/2001	(2) GE COM. CYCLE UNITS W/HRSG & 550 MMBTU/HR DB	2,407	EFFICIENT COMBUSTION	0.00720	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	(2) COMBINED CYCLE TURBINES, 75% LOAD	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.00130	BACT
KYRENE GENERATING STATION, SALT RIVER PROJECT	PHOENIX, AZ	3/14/2001	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	NONE INDICATED	0.00720	LAER
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	(2) TURBINE, COMBINED CYCLE	2,046	LOW ASH FUEL, NG	0.00720	BACT-OTHER
GULF STATES UTILITIES COMPANY - LOUISIANA STATION	BATON ROUGE, LA	2/7/1996	NO.4 TURBINE/HRSG	1,573	NONE INDICATED	0.00725	OTHER
TRANS GAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	(4) COMBUSTION TURBINES	2,200	CLEAN FUELS	0.00740	BACT
PANDA CULLODEN GENERATING STATION	CULLODEN, WV	12/18/2001	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	USE OF LOW-ASH FUEL - NATURAL GAS	0.00750	BACT-OTHER
			COMBUSTION TURBINE, 300 MW, W/ DUCT BURNER	2,400		0.00929	
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	7/25/2001	(2) GAS TURBINES COMBINED CYCLE	2,205	NONE INDICATED	0.00762	BACT-PSD
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	1/28/2003	(2) TURBINE, COMBINED CYCLE WITH DUCT BURNER, POWER AUG.	2,200	GCP AND USE OF PIPELINE QUALITY NATURAL GAS	0.00764	BACT-PSD
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	(3) TURBINE/HRSG NO.1,2,3	3,168	FIRING NAT GAS	0.00783	BACT-PSD
RENAISSANCE POWER LLC	MICHIGAN	6/7/2001	(3) TURBINES, STATIONARY GAS COMBINED CYCLE	1,360	GOOD COMBUSTION	0.00787	BACT-PSD
WEST TEXAS ENERGY FACILITY	HOUSTON, TX	7/28/2000	(2) GAS TURBINE NO POWER AUGMENTATION CASE I	2,000	FIRING NAT GAS	0.00795	BACT-PSD
			(2)GAS TURBINES W/POWER AUGMENTATION CASE II	2,000		0.00910	
WALLULA POWER PLANT	WASHINGTON	1/3/2003	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	NONE INDICATED	0.00800	BACT-OTHER
CEDAR BLUFF POWER PROJECT	CEDAR BLUFF, TX	12/21/2000	(2) COMBUSTION TURBINES W/HRSG STACK1&2	2,640	FIRING NAT GAS	0.00805	BACT-PSD
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NEW GAS TURBINE PHASE 3 ONLYSTK-701	1,360	COMBUSTION CONTROL & PIPELINE-QUALITY NAT GAS	0.00809	BACT-OTHER
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	(3) COMBUSTION TURBINES 7,8,9	360	GCP	0.00833	BACT-PSD
CPV SHORE	WOODBRIIDGE, NJ	8/24/2012	2 GE 7FA COMBUSTION TURBINES	2,307	NATURAL GAS FIRING	0.00840	BACT-PSD
MANSFIELD MILL	MANSFIELD, LA	8/14/2001	GAS TURBINE/HRSG	654	NATURAL GAS FIRING	0.00840	BACT-PSD
WYANDOTTE ENERGY	WYANDOTTE, MI	2/8/1999	(2) TURBINE, COMBINED CYCLE POWER PLANT	2,000	NONE INDICATED	0.00850	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	(2) COMBUSTION TURBINES	1,840	GOOD COMBUSTION	0.00858	BACT-PSD
JACK COUNTY POWER PLANT	HOUSTON, TX	3/14/2000	(2) GE-7241FA TURBINES, HRSG-1&-2	2,080	FIRING NAT GAS	0.00865	BACT-PSD
MIRANT GASTONIA POWER FACILITY	NORTH CAROLINA	5/28/2002	(4) TURBINES, COMBINED CYCLE GE (50%-100%)	1,400	GCP	0.00876	BACT-PSD
			(4) TURBINES, COMBINED CYCLE GE (100%)	1,400		0.01007	
			(4) TURBINES, COMBINED CYCLE GE DUCT BURNERS	1,400		0.01204	
MOBILE ENERGY LLC	MOBILE, AL	1/5/1999	TURBINE, GAS COMBINED CYCLE	1,344	COMBUSTION OF CLEAN FUELS	0.00890	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	COMBUSTING NATURAL GAS	0.00890	BACT-PSD
TIVERTON POWER ASSOCIATES	TIVERTON, RI	2/13/1998	COMBUSTION TURBINE, NATURAL GAS	2,120	GOOD COMBUSTION	0.0089	BACT-PSD
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	(8) COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	NATURAL GAS ONLY	0.00900	BACT-PSD
AUTAGAVILLE COMBINED CYCLE PLANT	PRATTVILLE, AL	1/8/2001	(4) COMBUSTION TURBINES COMBINED CYCLE	1,384	GCP	0.00900	BACT-PSD
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	(4) TURBINE, COMBINED CYCLE, DUCT BURNER	1,902	NATURAL GAS	0.00900	BACT-PSD
RELIANT ENERGY HOPE GENERATING FACILITY	JOHNSTON, RI	5/3/2000	(2) TURBINE, COMBINED CYCLE	1,488	NONE INDICATED	0.00900	BACT-PSD
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	TURBINE, COMBINED CYCLE COMBUSTION, ABB	600	NONE INDICATED	0.00900	BACT-OTHER
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	UNIT NO. 9 CASE II SHORT-TERM, W/O DUCT BURNER	400	NONE INDICATED	0.00900	BACT-PSD
			UNIT NO. 9 CASE III SHORT-TERM, W/ DUCT BURNER	400		0.01025	
SPRINGDALE TOWNSHIP STATION	GREENSBURG, PA	7/12/2001	TURBINE, COMBINED CYCLE	2,094	GCP	0.00907	BACT-PSD
JAMES CITY ENERGY PARK	VIRGINIA	12/1/2003	TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,973	GOOD COMBUSTION/DESIGN AND CLEAN FUEL	0.00912	BACT-PSD
			TURBINE, COMBINED CYCLE, DUCT BURNER	2,325		0.01062	
ENNIS TRACTEBEL POWER	ENNIS, TX	1/31/2002	COMBUSTION TURBINE W/HEAT RECOVERY STEAM GENERATOR	2,800	NONE INDICATED	0.00915	BACT-OTHER
MIRANT AIRSIDE INDUSTRIAL PARK	VIRGINIA	12/6/2002	(2) TURBINE, COMBINED CYCLE	1,962	GCP. DRIFT ELIMINATORS	0.00917	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE, ID	10/19/2001	(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,707	GCP	0.00926	BACT-PSD
			(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,097		0.00939	
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	3,228	NONE INDICATED	0.00932	OTHER
MIDDLETON FACILITY	BOISE, ID	10/19/2001	(2) GAS TURBINES WITH DUCT BURNERS	2,097	REASONABLE POLLUTION PREVENTION PRECAUTIONS	0.00939	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	TURBINE, COMBUSTION ABB GT11N2	1,327	DLN COMBUSTION TECHNOLOGY	0.00942	BACT-PSD
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	TURBINE, NO DUCT BURNER FIRING	1,937	NONE INDICATED	0.00945	BACT-PSD
			TURBINE, COMBINED CYCLE, DUCT BURNER	1,937		0.01146	
GOLDENDALE ENERGY PROJECT	KIRKLAND, WA	2/23/2001	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	PIPELINE QUALITY NATURAL GAS AND GCP	0.00955	BACT-PSD
DUKE ENERGY WYTHE, LLC	VIRGINIA	2/5/2004	(2) TURBINE, COMBINED CYCLE	1,827	GCP	0.00958	BACT-PSD
			(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,470		0.00960	
LAWRENCE ENERGY	OHIO	9/24/2002	(3) TURBINES, COMBINED CYCLE DUCT BURNERS OFF	1,440	BURNING NATURAL GAS	0.00960	BACT-PSD
			(3) TURBINES, COMBINED CYCLE DUCT BURNERS ON	1,440		0.01010	
BERKSHIRE POWER DEVELOPMENT, INC.	AGAWAM, MA	9/22/1997	TURBINE, COMBUSTION ABB GT24	1,792	DLN COMBUSTION TECHNOLOGY	0.00971	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEFI)	ARLINGTON, AZ	11/12/2003	(2) TURBINE, COMBINED CYCLE & DUCT BURNER	1,955	NONE INDICATED	0.00972	BACT-PSD
			(2) TURBINE, COMBINED CYCLE	1,360		0.01103	
RELIANT ENERGY HUNTERSTOWN, LLC	JOHNSTOWN	6/15/2001	(3) COMBUSTION TURBINE COMBINED CYCLE	2,400	NONE INDICATED	0.00980	BACT-OTHER
			(3) COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	2,400		0.01060	
EL PASO MERCHANT ENERGY CO.	MISSISSIPPI	6/24/2002	(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,062	USE OF LOW ASH FUEL	0.00994	BACT-PSD
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3	2,181	NONE INDICATED	0.01000	BACT
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	TURBINE, COMBINED CYCLE	1,876	CLEAN FUEL AND GCP	0.01000	BACT-PSD
GENERAL ELECTRIC PLASTICS	BURKVILLE, AL	5/27/1998	TURBINE & DUCT BURNER COMBINED CYCLE	1,200	CLEAN FUEL - NATURAL GAS/HYDROGEN	0.01000	BACT-PSD
GENPOWER KELLEY LLC	QUINTON, AL	1/12/2001	(4) TURBINE, COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	EFFICIENT COMBUSTION	0.01000	BACT-PSD
SALT RIVER PROJECT/SANTAN GEN. PLANT	PHOENIX, AZ	3/7/2003	TURBINE, COMBINED CYCLE, DUCT BURNER	1,400	NONE INDICATED	0.01000	LAER
MCCLAIN ENERGY FACILITY	OKLAHOMA	1/19/2000	COMBUSTION TURBINES W/ NON-FIRED HEAT RECOVERY	1,360	CLEAN FUEL/NATURAL GAS ONLY	0.01000	BACT-PSD
REDBUD POWER PLT	TULSA, OK	8/15/2001	(4) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	1,698	USE OF LOW ASH FUEL, EFFIECIENT COMBUSTION	0.01000	BACT-PSD
THUNDERBIRD POWER PLT	TULSA, OK	5/17/2001	(3) TURBINES, COMBINED CYCLE, W/ DUCT FIRING	1,698	USE OF LOW ASH FUEL	0.01000	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	OKLAHOMA	10/1/1999	(3) TURBINES W/ DUCT BURNERS, COMBINED CYCLE	2,133	USE OF LOW ASH FUEL AND EFFICIENT COMBUSTION	0.01000	BACT-PSD
GENOVA OK I POWER PROJECT	OKLAHOMA	6/13/2002	MHI COMBUSTION TURBINE & DUCT BURNERS	1,767	LOW ASH FUEL AND EFFICIENT COMBUSTION	0.01000	BACT-PSD
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	1,515	GCP	0.01000	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	(2) NEW TURBINES, STACK 5 & 6	2,000	FIRING NAT GAS	0.01000	BACT-PSD
			(4) GAS FUELED TURBINES, STACK 1-4	2,200		0.01091	
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	TURBINE, COMBINED CYCLE (<75% LOAD)	1,480	GCP	0.01000	BACT-PSD
			TURBINE, COMBINED CYCLE (75%-100% LOAD)	1,480		0.01100	
GUADALUPE GENERATING STATION	TEXAS	2/15/1999	(4) TURBINES W/ DUCT BURNERS CTG-1 TO 4	2,000	FIRING NAT GAS	0.01000	BACT-PSD
			(4) TURBINES - ONLY CTG-1 TO 4	1,360		0.01324	
MURRAY ENERGY FACILITY	DALTON, GA	10/23/2002	(4) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,480	GCP, CLEAN FUEL	0.01008	BACT-PSD
RELIANT ENERGY- CHANNELVIEW COGENERATION	HOUSTON, TX	10/29/2001	(4) TURBINE/HRSG #1-#4	2,350	NONE INDICATED	0.01009	BACT-PSD
PINNACLE WEST ENERGY CORP./REDHAWK GEN.	PHOENIX, AZ	12/2/2000	TURBINE, COMBINED CYCLE DUCT BURNER	1,400	NONE INDICATED	0.01010	BACT-PSD
PARIS GENERATING STATION	DALLAS, TX	10/28/1998	(4) GAS TURBINES W/DUCT BURNERSGT-HRSG#1-#4	2,000	FIRING NAT GAS	0.01015	BACT-PSD
			(4) GAS TURBINES GE7241FA GT-HRSG#1-#4	1,360		0.01346	
HARQUAHALA GENERATING PROJECT	TONOPAH, AZ	2/15/2001	COMBINED CYCLE NATURAL GAS	2,362	GOOD COMBUSTION CONTROL	0.01016	BACT-OTHER
RIO NOGALES POWER PROJECT	TEXAS	12/3/1999	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	FIRING NAT GAS	0.01017	BACT-PSD
BASTROP CLEAN ENERGY CENTER	BASTROP, TX	3/21/2000	(2) COMBUSTION TURBINE GENERATORS ONLY	1,288	GCP	0.01025	BACT-PSD
			(2) TURBINES AND DUCT BURNERS COMBINED	1,288		0.01258	
KM POWER COMPANY	FORT LUPTON, CO., MI	6/26/2000	TURBINE, GE 7EA FRAME COMBINED CYCLE	896	NONE INDICATED	0.01027	BACT-PSD
CARVILLE ENERGY CENTER	LOUISIANNA	12/9/1999	(2) GAS TURBINES	1,908	GCP GOOD DESIGN AND CLEAN BURNING NATURAL GAS	0.01034	BACT-PSD
CARVILLE ENERGY CENTER	LOUISIANNA	5/16/2001	(2) GAS TURBINES (1-98A, 2-98A)	1,908	GCP GOOD DESIGN AND CLEAN BURNING NATURAL GAS	0.01034	BACT-PSD
FREEPORT COGENERATION FACILITY	FREEPORT, TX	6/26/1998	TURBINE/HRSG W/O DUCT BURNER FIRING	672	NATURAL GAS AS FUEL	0.01042	BACT-OTHER
			TURBINE/HRSG W/ DUCT BURNER FIRING	672		0.01871	
MIRANT GASTONIA POWER FACILITY	NORTH CAROLINA	5/28/2002	(4) TURBINES, COMBINED CYCLE MHI/SW @ 75% LOAD	1,400	GCP	0.01056	BACT-OTHER
			(4) TURBINES, COMBINED CYCLE MHI/SW	1,400		0.01342	
			(4) TURBINES, COMBINED CYCLE MHI/SW DUCT BURNERS	1,400		0.01523	
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	(4) TURBINE & DUCT BURNERS GT-HRSG 1-4	2,000	FIRING NAT GAS	0.01050	BACT-PSD

Appendix G
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Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	(2) COMBINED CYCLE TURBINES, 75% LOAD	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.00130	BACT
DUKE ENERGY, VIGO LLC	WEST TERRE HAUTE, IN	6/6/2001	(4) TURBINES (ONLY) HR LIMITS ONLY GT-HRSG 1-4	1,360	NATURAL GAS. GOOD COMBUSTION	0.01346	BACT-PSD
			(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,360		0.01070	
			(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,945		0.01200	
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CITY, OK	8/16/2001	(4) TURBINES, COMBINED CYCLE	1,372	USE OF LOW ASH FUEL AND EFFICIENT COMBUSTION	0.01071	BACT-PSD
GREATER DES MOINES ENERGY CENTER	PLEASANT HILL, IA	4/10/2002	(2) COMBUSTION TURBINES - COMBINED CYCLE	1,400	NONE INDICATED	0.01080	BACT-PSD
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	(2) GE PG7241 FA COMBUSTION TURBINE	1,706	NONE INDICATED	0.01080	BACT
BEATRICE POWER STATION	GAGE CO., NE	6/22/2004	(2) COMBUSTION TURBINES W/ DUCT BURNER	1,000	NONE INDICATED	0.01080	BACT-OTHER
DUKE ENERGY HANGING ROCK ENERGY FACILITY	OHIO	12/13/2001	(4) TURBINES COMBINED CYCLE DUCT BURNERS OFF	1,376	NONE INDICATED	0.01090	BACT-PSD
			(4) TURBINES COMBINED CYCLE DUCT BURNERS ON	1,376		0.01693	
			(2) MHI 501G COMBUSTION TURBINE	2,676		0.01100	BACT
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	(3) SWPC 510G COMBUSTION TURBINES	2,880	CLEAN BURNING FUELS & EFFICIENT COMBUSTION	0.01100	BACT
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	(2) TURBINE, COMBUSTION ABB GT-24 #1 WITH 2 CHILLERS	1,965	NAT GAS AS PRIMARY FUEL	0.01100	BACT-PSD
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	(2) TURBINE, COMBINED CYCLE	1,336	GCP, LOW SULFUR FUEL	0.01100	BACT-PSD
WANSLEY COMBINED CYCLE ENERGY FACILITY	ROOPVILLE, GA	1/15/2002	(2) TURBINE, COMBINED CYCLE	2,699	NATURAL GAS FUEL	0.01100	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	(2) TURBINE, COMBINED CYCLE	1,700	NONE INDICATED	0.01100	BACT-OTHER
CALEDONIA POWER LLC	CALEDONIA, MS	3/27/2001	ELECTRIC POWER GENERATION TURBINE & DUCT BURNER	1,280	COMBUSTION CONTROL	0.01100	BACT-PSD
PSO NORTHEASTERN POWER STA	OKLAHOMA	10/18/1999	TURBINE, COMBINED CYCLE AND DUCT BURNER	1,791	NONE INDICATED	0.01128	BACT-PSD
MIRANT SUGAR CREEK LLC	WEST TERRE HAUTE, IN	7/24/2002	(4) TURBINE, COMBINED CYCLE	1,491	LOW ASH FUEL AND GCP	0.01200	BACT-PSD
CHOCTAW GAS GENERATION, LLC	MISSISSIPPI	12/13/2001	(2) TURBINE, COMBINED CYCLE	2,737		0.01136	
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	TWO COMBINED CYCLE GAS TURBINES	2,110	GOOD COMBUSTION DESIGN/ PROPER OPERATING PRACTICES/ PIPELINE QUALITY NATURAL GAS AS FUEL	0.01148	BACT
			(2) COMBUSTION TURBINES NO DUCT BURN EPN 101&102	1,480		0.01149	
			(2) COMBUSTION TURBINES W/DUCT BURN EPN101&102	1,480		0.01486	
GREGORY POWER FACILITY	TEXAS	6/16/1999	(4) GAS TURBINES/DUCT BURNERS	2,876	USE OF CLEAN BURNING FUELS	0.01165	BACT
THE DOW CHEMICAL COMPANY	IBERVILLE, LA	7/23/2008	(4) GAS TURBINES/DUCT BURNERS	2,876	USE OF CLEAN BURNING FUELS	0.01165	BACT-PSD
PLAQUEMINE, IBERVILLE PARISH	LOUISIANNA	12/26/2001	TURBINES AND DUCT BURNERS	2,480	LOW ASH FUEL (NATURAL GAS)	0.01170	BACT-PSD
HORSESHOE ENERGY PROJECT	OKLAHOMA	2/12/2002	(6) TURBINE GE LM 6000 COMBINED CYCLE	416	NONE INDICATED	0.01178	BACT-PSD
KM POWER COMPANY	FORT LUPTON, CO., MI	6/26/2000	(2) TURBINE, COMBINED CYCLE	2,132	NONE INDICATED	0.01190	BACT-PSD
CPV CUNNINGHAM CREEK	SILVER SPRING, VA	9/6/2002	(3) COMBINED CYCLE TURBINES	2,049	CLEAN BURNING FUEL & EFFICIENT COMBUSTION	0.01200	BACT
MIRANT BOWLINE, LLC	THEODORE, AL	3/16/1999	TURBINE, W/ DUCT BURNER	1,360	COMBUSTION OF NATURAL GAS ONLY	0.01200	BACT-PSD
ALABAMA POWER COMPANY - THEODORE COGEN	GANTT, AL	3/3/2000	(2) TURBINES, COMBINED CYCLE COMBUSTION	1,328	GCP ALONG WITH USE OF NATURAL GAS	0.01200	BACT-PSD
AEC - MCWILLIAMS PLANT	INDIANA	12/7/2001	(2) CMBND CYCLE COMBUST. TURBINE WESTINGHOUSE 501F	2,071	GCP	0.01200	BACT-PSD
ANP BLACKSTONE ENERGY COMPANY	BLACKSTONE, MA	4/16/1999	(2) TURBINES, COMBINED CYCLE	3,630	NATURAL GAS FUEL	0.01200	BACT-PSD
ANP BELLINGHAM ENERGY COMPANY	MARLBOROUGH, MA	8/4/1999	TURBINE, COMBINED CYCLE	2,493	CLEAN FUEL - NATURAL GAS	0.01200	BACT-PSD
CABOT POWER CORPORATION	EVERETT, MA	5/7/2000	(4) COMBUSTION TURBINE AND DUCT BURNERS	1,832	USE OF LOW ASH FUEL AND EFFICIENT COMBUSTION	0.01200	BACT-PSD
REDBUD POWER PLANT	LUTHER, OK	3/18/2002	TURBINE, COMBINED CYCLE DUCT BURNER	1,698	NONE INDICATED	0.01200	BACT-PSD
MEMPHIS GENERATION, LLC	MEMPHIS, TN	4/9/2001	(2) COMBUSTION TURBINE W/ DUCT BURNER	2,480	NONE INDICATED	0.01202	BACT-OTHER
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	TURBINE, COMBINED CYCLE COMBUSTION, GE	600	NONE INDICATED	0.01233	BACT-OTHER
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	(4) COMBUSTION TURBINES COMBINED CYCLE, W/ DUCT BURNER	2,440	NONE INDICATED	0.01238	BACT-PSD
JACKSON COUNTY POWER, LLC	PENNSYLVANIA	5/3/2000	(2) TURBINE, COMBINED CYCLE	1,360	GCP/CLEAN FUEL	0.01250	BACT-PSD
LIBERTY ELECTRIC POWER , LLC	ARIZONA	8/23/2002	(4) COMBINED CYCLE GAS TURBINE ABB MODEL GT24	1,440	NG < 0.8 GR/100SCF	0.01250	BACT-PSD
GENOVA ARKANSAS I, LLC	HOUSTON, TX	1/8/2002	(2) GAS TURBINES HRSG-1 & -2	1,440	PIPELINE QUALITY NAT GAS	0.01250	BACT-PSD
EDINBURG ENERGY LIMITED PARTNERSHIP	NEW MEXICO	6/27/2002	(4) TURBINES, COMBINED CYCLE	1,515	NONE INDICATED	0.01254	BACT-PSD
KAUFMAN COGEN LP	WHATCOM CO., WA	3/1/2004	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	NATURAL GAS FUEL	0.01276	BACT
CLOVIS ENERGY FACILITY	HOUSTON, TX	5/2/1994	GAS TURBINES UNITS 1 & 2 W/ DUCT BURNER	602	INTERNAL COMBUSTION CONTROLS	0.01278	BACT-OTHER
BP CHERRY POINT COGENERATION	ARLINGTON, AZ	3/22/2001	TURBINE, COMBINED CYCLE	1,923	NONE INDICATED	0.01280	BACT-PSD
WEST CAMPUS COGENERATION COMPANY	NORTH CAROLINA	1/9/2002	(2) GAS TURBINES (HRSG-1 AND HRSG-2)	1,715	GCP AND DESIGN	0.01283	BACT-PSD
MESQUITE GENERATING STATION	TEMPLE, TX	6/26/2001	(4) GAS TURBINES IN COMBINED CYCLE MODE, W/ DUCT BURNER	1,400	GCP AND USE OF NATURAL GAS	0.01286	BACT-PSD
GENPOWER EARLEYS, LLC	ALEXANDRIA, LA	8/25/2000	(4) COMBINED CYCLE GENERATION UNIT, W/O DUCT BURNER	1,774	GCP, USING CLEAN NATURAL GAS	0.01297	BACT-PSD
BELL ENERGY FACILITY				1,464		0.01783	
PERRYVILLE				1,079	NONE INDICATED	0.01297	OTHER
WEATHERFORD ELECTRIC GENERATION FACILITY	TEXAS	3/11/2002	(2) COMBINED CYCLE TURBINE	1,464	NATURAL GAS WITH LOW ASH CONTENT	0.01298	BACT-PSD
LOST PINES 1 POWER PLANT	AUSTIN, TX	9/30/1999	ELECTRIC GENERATION - SCENARIO 1	1,717	GOOD COMBUSTION PRACTICES	0.01300	BACT
VIRGINIA ELECTRIC AND POWER COMPANY	WARREN, VA	1/14/2008	ELECTRIC GENERATION - SCENARIO 2	1,944	GOOD COMBUSTION PRACTICES	0.00643	BACT
			ELECTRIC GENERATION SECNARIO 3	2,204	GOOD COMBUSTION PRACTICES.	0.00449	BACT
			(2) COMBINED CYCLE TURBINES, GE 7FA	1,717	LOW SULFUR GAS < 0.002%	0.01300	BACT
CPV Warren, LLC	FRONT ROYAL, VA	7/30/2004	TURBINE COMBINED CYCLE UNIT	848	EFFICIENT COMBUSTION	0.01300	BACT-PSD
MCWILLIAMS PLANT	ANDALUSIA, AL	4/14/1995	(2) COMBUSTION TURBINE, HRSG, DUCT BURNER	2,800	CLEAN FUELS	0.01300	BACT-PSD
HOT SPRINGS POWER PROJECT	ARIZONA	11/9/2001	COMBUSTION TURBINE	360	LOW ASH FUEL	0.01300	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	(4) TURBINE, COMBINED CYCLE 100%LOAD, W/ DUCT FIRING	2,200	GOOD COMBUSTION DESIGN AND CLEAN FUEL	0.01300	BACT-PSD
HENRY COUNTY POWER	VIRGINIA	11/21/2002	(4) TURBINE, COMBINED CYCLE 70%LOAD, W/ DUCT FIRING	958		0.01400	
			(3) COMBUSTION TURBINE W/ AND W/O DUCT BURNER	2,181		0.01300	
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	(3) COMBUSTION TURBINE W/O DUCT BURNER 75%LOAD	1,636	NONE INDICATED	0.01540	NSPS
			(3) COMBUSTION TURBINE W/O DUCT BURNER 60% LOAD	1,309		0.01730	
			(2) TURBINE/HRSG CTG-1 & CTG-2	1,920		0.01302	
MAGIC VALLEY GENERATION STATION	TEXAS	12/31/1998	(2) TURBINE/DUCT BURNER STGT1 & T2	336	PORPER COMBUSTION	0.01310	BACT-PSD
PLANT NO. 2	LUBBOCK, TX	1/8/1999	TURBINE, COMBINED CYCLE	2,040	FIRING NAT GAS	0.01324	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY	ARLINGTON, AZ	12/14/2000	TURBINE, COMBINED CYCLE	1,360	NONE INDICATED	0.01324	BACT-PSD
MIRANT SUGAR CREEK, LLC	WEST TERRE HAUTE, IN	5/9/2001	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	GOOD COMBUSTION	0.01324	BACT-PSD
ILMA ENERGY COMPANY	CINCINNATI, OH	3/26/2002	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURNER	1,374	USE OF CLEAN BURNING FUELS	0.01324	BACT-PSD
DRESDEN ENERGY LLC	OHIO	10/16/2001	(2) COMBUSTION TURBINE COMB. CYCLE W DUCT BURNER	1,374	NONE INDICATED	0.01332	BACT-PSD
			(2) COMBUSTION TURBINE COMB. CYCLE W DUCT BURNER	1,374		0.01587	
			(6) TURBINES	1,358		0.01325	
FORNEY PLANT	HOUSTON, TX	3/6/2000	(6) COMBINED TURBINE & DUCT BURNER	1,358	GCP	0.09526	BACT-PSD
			(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3)	1,440		0.01340	
			(3) COMBUSTION TURBINES & DUCTBURNERS CTG (1), (2), (3)	1,360		0.01735	
GATEWAY POWER PROJECT	TEXAS	3/20/2000	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	NATURAL GAS FUEL USED	0.01352	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	WASHINGTON	1/2/2003	(4) COMBINED-CYCLE GAS TURBINES - GENERATORS	2,000	PIPELINE QUALITY NATURAL GAS AND GCP	0.01360	BACT-PSD
NORTH AMERICAN POWER GP -KIOWA CREEK	GREENWOOD VILLAGE, CO	1/17/2001	TURBINE,GAS	1,214	GOOD COMBUSTION PRACTICES	0.0136	BACT-PSD
AUBURNDALE POWER PARTNERS, LP	AUBURNDALE, FL	12/14/1992	(2) TURBINE, COMBINED CYCLE (MHI)	1,360	GCP	0.01360	BACT-PSD
GENOVA ARKANSAS I, LLC	ARIZONA	8/23/2002	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	EXCLUSIVE USE OF NATURAL GAS	0.01361	BACT-PSD
BLUEWATER ENERGY CENTER LLC	MICHIGAN	1/7/2003	(2) TURBINE COMBINED CYCLE NO DUCT FIRING	1,360	NONE INDICATED	0.01397	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	(2) TURBINE COMBINED CYCLE DUCT FIRING	1,360		0.02059	
GILA BEND POWER GENERATING STATION	ARIZONA	5/15/2002	TURBINE, COMBINED CYCLE, DUCT BURNER	1,360	NONE INDICATED	0.01400	BACT-PSD
FAIRLESS ENERGY LLC	GLEN ALLEN, PA	3/28/2002	(4) TURBINES, COMBINED CYCLE	2,380	NONE INDICATED	0.01400	BACT-PSD
FAIRLESS WORKS ENERGY CENTER	GLEN ALLEN, PA	8/7/2001	TURBINE, COMBINED CYCLE	1,344	NONE INDICATED	0.01400	BACT-PSD
LIMERICK PARTNERS, LLC	LIMERICK, PA	4/9/2002	(3) TURBINE, COMBINED CYCLE	1,467	NONE INDICATED	0.01400	BACT-OTHER
COGENTRIX LAWRENCE CO., LLC	INDIANA	10/5/2001	(3) TURBINES, COMBINED CYCLE & DUCT BURNERS	1,944	NONE INDICATED	0.01400	BACT-PSD
			(3) TURBINES, COMBINED CYCLE	1,944		0.01700	
			(3) TURBINE/HRSGS CTG1-3	2,000		0.01415	
BAYTOWN COGENERATION PLANT	TEXAS	2/11/2000			GCP & FIRING NON-ASH CONTAINING GASEOUS FUELS		BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	(2) COMBINED CYCLE TURBINES, 75% LOAD	2,160	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.00130	BACT
GENOVA ARKANSAS I, LLC	ARIZONA	8/23/2002	(2) TURBINE, COMBINED CYCLE (GE)	1,360	GCP/CLEAN FUEL	0.01434	BACT-PSD
EFFINGHAM COUNTY POWER, LLC	GEORGIA	12/27/2001	(2) TURBINE, COMBINED CYCLE	1,480	GCP/CLEAN FUEL	0.01459	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	(4) GAS TURBINES WITH HRSG (COMBINED FIRING)	1,384	FIRING NATURAL GAS	0.01467	BACT-PSD
			(4) GAS TURBINES TURBINE ONLY FIRING	1,360		0.01493	
MONTGOMERY COUNTY POWER PROJECT	TEXAS	6/27/2001	(2) CTG-HRSG STACKS STACK1 & 2	1,440	FIRING PIPELINE-QUALITY NAT GAS	0.01476	BACT-PSD
NYPA Poletti Power Project	ASTORIA, NY	10/1/2002	(2) COMBINED CYCLE TURBINES	1,779	NONE INDICATED	0.01500	BACT
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	OKLAHOMA	12/10/2001	(2) TURBINES, COMBINED CYCLE	1,701	CLEAN FUEL AND EFFICIENT COMBUSTION	0.01500	BACT-OTHER
FPL ENERGY MARCUS HOOK, L.P.	MARCUS HOOK, PA	5/4/2003	(3) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,191	LOW SULFUR FUEL	0.01500	BACT-PSD
			(3) TURBINE, COMBINED CYCLE	1,798		0.01600	
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	(3) COMBINED CYCLE TURBINE W/O DUCT BURNER	2,964	NONE INDICATED	0.01500	BACT-PSD
			(3) COMBINED CYCLE TURBINE W/ DUCT BURNER	3,202		0.01700	
SWEENY COGENERATION FACILITY	DALLAS, TX	9/30/1998	(4) GAS TURBINE/HRSG 1-4, EPN1-4	970	GCP & FIRING NON-ASH CONTAINING GASEOUS FUELS	0.01515	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	(4) COMBUSTION TURBINE COMBINED CYCLE	2,010	GCP AND THE USE OF NATURAL GAS	0.01517	BACT-PSD
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464	FIRING NATURAL GAS IN THE TURBINES AND DUCT BURNERS	0.01530	BACT-PSD
XCEL ENERGY, BLACK DOG ELECTRIC GENERATING STA	BURNSVILLE, MN	11/17/2000	COMBUSTION TURBINE WITH HRSG	1,917	USE OF NATURAL GAS AS THE EXCLUSIVE FUEL	0.01534	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	(3) TURBINES, COMBINED CYCLE W/O DUCT FIRING	1,360	NONE INDICATED	0.01544	BACT-PSD
			(3) TURBINES, COMBINED CYCLE W/ DUCT FIRING	1,360		0.01838	
PASADENA 2 POWER FACILITY	TEXAS	9/30/1998	(2) TURBINE/HRSG (CG-2,CG-3)	1,280	GCP AND FIRING ONLY GASEOUS FUELS	0.01547	BACT-PSD
DUKE ENERGY FAYETTE, LLC	MASONTOWN, PA	1/30/2002	(2) TURBINE, COMBINED CYCLE	2,240	NONE INDICATED	0.01554	BACT-PSD
KALKASKA GENERATING, INC	RAPID RIVER TWP, MI	2/4/2003	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	CLEAN FUEL AND GCP	0.01570	BACT-PSD
BASF CORPORATION	GEISMAR, LA	12/30/1997	(2) TURBINE, COGEN UNIT GE FRAME 6	339	GOOD DESIGN & OPERATING PRACTICES USE GASEOUS FUELS	0.01592	BACT-PSD
BROOKHAVEN ENERGY, LP	YAPHANK, NY	7/18/2002	(4) COMBINED CYCLE TURBINES, 75%-100%	1,897	NONE INDICATED	0.01600	OTHER
UCC SEADRIFT OPERATIONS	PORT LAVACA, TX	10/20/1999	COGEN STACK TURBINE ONLY	310	FIRING NAT GAS	0.01615	BACT-PSD
			COGEN STACK COMBINED G7/HRSG&DB 1180	310		0.02590	
PPG INDUSTRIES	LAKE CHARLES, LA	12/2/1999	COGENERATION UNIT 5 AND 6 (EACH)	1,320	GCP, CLEAN BURNING FUEL	0.01621	BACT-PSD
SHELL CHEMICAL COMPANY - GEISMAR PLANT	GEISMAR, LA	5/10/2000	(2) COGENERATION UNITS COMBINED CYCLE	320	GCP	0.01625	BACT-PSD
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	(3) COMBINED CYCLE COMBUSTION TURBINE UNITS	1,360	CLEAN FUELS	0.01660	BACT-PSD
KANSAS CITY POWER & LIGHT CO. - HAWTHORN STA	KANSAS CITY, MO	8/19/1999	(2) TURBINE, COMBINED	1,360	GCP	0.01662	BACT-OTHER
BEATRICE POWER STATION	BEATRICE, NE	5/29/2003	(2) TURBINE, COMBINED CYCLE	640	NONE INDICATED	0.01688	BACT-OTHER
PERRYVILLE POWER STATION	ALEXANDRIA, LA	3/8/2002	(2) GAS TURBINES, EPNS 1-1, 1-2	1,360	LNB, PROPER OPERATING INSTRUCTIONS & USE OF NATL GAS	0.01691	BACT-PSD
			(2) GAS TURBINE/HRSG UNITS, EPNS 1-1, 1-2	1,360		0.01919	
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/2/1998	(4) COMBINED CYCLE GAS TURBINE STACK1-4	1,400	FIRING NAT GAS	0.01714	BACT-PSD
SOUTH SHORE POWER LLC	BRIDGEMAN, MI	1/30/2003	(2) TURBINE, COMBINED CYCLE	1,376	USE OF NATURAL GAS & STATE OF THE ART COMBUSTION	0.01744	BACT-PSD
YH BRAUNIG A VON ROSENBERG PLANT	SAN ANTONIO, TX	10/14/1998	(2) COMBUSTION TURBINES & HRSG W/ DUCT BURN E5&6	1,488	FIRING PIPELINE QUALITY NAT GAS	0.01781	NSPS
KEYSPAN SPAGNOLI ROAD ENERGY CENTER	MELVILLE, NY	4/30/2003	(1) COMBINED CYCLE COMBUSTION TURBINE	1,788	LOW SULFUR FUELS	0.01820	OTHER
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	GCP WITH USE OF NATURAL GAS	0.01832	BACT-PSD
			TURBINE, COMBINED CYCLE W/O DUCT BURNERS	2,166		0.01910	
PALESTINE ENERGY FACILITY	PALESTINE, TX	12/13/2000	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	GCP, USE OF GASEOUS FUELS CONTAINING NO ASH	0.01882	BACT-PSD
SC ELECTRIC AND GAS COMPANY - URQUHART STATION	COLUMBIA, SC	9/22/2000	(2) TURBINES, COMBINED CYCLE	1,795	NONE INDICATED	0.01894	BACT-PSD
GENOVA OK I POWER PROJECT	OKLAHOMA	6/13/2002	GE COMBUSTION TURBINE & DUCT BURNERS	1,705	LOW SULFUR FUEL AND EFFICIENT COMBUSTION	0.01900	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	(3) TURBINE, COMBINED CYCLE	1,844	USE OF ONLY CLEAN-BURNING LOW-SULFUR FUELS AND GCP	0.01900	BACT-PSD
			(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,844		0.02100	
LSP- BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/13/2001	COMBINED CYCLE COMBUSTION TURBINE GENERATION	2,100	USE OF NATURAL GAS AS FUEL	0.01905	BACT-PSD
EXXON-MOBIL BEAUMONT REFINERY	BEAUMONT, TX	3/14/2000	(3) COMBUSTION TURBINES W/DUCT BURN 61STK001-003	1,464	FIRING NAT GAS	0.01918	BACT-PSD
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	COMBUSTION TURBINE (2), NATURAL GAS	928	CLEAN FUEL	0.0194	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGSLY, AL	11/29/1999	(3) TURBINE & DUCT BURNER	1,360	EFFICIENT COMBUSTION	0.02000	BACT-PSD
ROQUETTE AMERICA	KEOKUK, IA	1/31/2003	TURBINE, COMBINED CYCLE	587	GCP, NATURAL GAS ONLY	0.02000	BACT-PSD
MIDLAND COGENERATION	MIDLAND, MI	7/26/2001	(2) GAS TURBINE COMBINED CYCLE	2,096	NONE INDICATED	0.02000	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGSLY, AL	11/29/1999	TURBINE, NG, 3 AT 170MW EA W/ DUCTBURNER	1,360	EFFICIENT COMBUSTION	0.0200	BACT-PSD
PIKE GENERATION FACILITY	MISSISSIPPI	9/24/2002	(4) TURBINES, COMBINED CYCLE, WITH DUCT BURNER	2,168	LOW ASH FUEL AND GCP	0.02039	BACT-PSD
ENNIS TRACTEBEL POWER	TEXAS	1/31/2003	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	FIRING PIPELINE NAT GAS	0.02043	BACT-PSD
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	(1) COMBINED CYCLE COMBUSTION TURBINE, W/ AND W/O DB	1,779	CLEAN FUELS	0.02100	OTHER
TPS - DELL, LLC	DELL, AR	8/8/2000	(2) TURBINE	2,560	GCP	0.02100	BACT-PSD
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	(2) TURBINES, COMBINED CYCLE	1,360	GCP, CLEAN FUEL	0.02154	BACT-PSD
WISE COUNTY POWER	HOUSTON, TX	7/14/2000	(2) COMBUSTION TURBINES STACK 1 & 2	1,840	FIRING PIPELINE NAT GAS	0.02163	BACT-PSD
FLEETWOOD COGENERATION ASSOCIATES	FLEETWOOD, PA	4/22/1994	NG TURBINE (GE LM6000) WITH WASTE HEAT BOILER	360	NONE INDICATED	0.02222	BACT-OTHER
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	(2) TURBINE, COMBINED CYCLE	1,384	COMBUSTION CONTROL	0.02262	BACT-PSD
CONTINENTAL ENERGY SVCS, INC., SILVER BOW GEN	BUTTE, MT	6/7/2002	(4) COMBINED CYCLE CT	1,400	NONE INDICATED	0.02314	OTHER
DEER PARK ENERGY CENTER	HOUSTON, TX	8/22/2001	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	FIRING PIPELINE-QUALITY NAT GAS	0.02354	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	ARIZONA	4/1/2002	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION CONTROL CLEAN FUEL	0.02368	BACT-PSD
FULTON COGEN PLANT	FULTON, NY	9/15/1994	STACK EMISSIONS (TURBINE & DUCT BURNER)	610	NONE INDICATED	0.02400	BACT-OTHER
DOSWELL LIMITED PARTNERSHIP	VA	5/4/1990	TURBINE, COMBUSTION	1,261	FUEL SPEC: CLEAN BURNING FUEL, NAT GAS & DIST. #2 OIL	0.0262	OTHER
ROCHE VITAMINS	BELVIDERE, NJ	10/8/1997	COMBUSTION TURBINE W/ DUCT BURNER	623	LNB	0.02700	BACT-PSD
			COMBUSTION TURBINE W/O DUCT BURNER	457		0.03300	
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(2) COMBUSTION GS TURBINE GENERATORS STACK7&8	1,400	FIRING NAT GAS	0.02714	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	RICHMOND, TX	12/31/2002	(4) HRSG/TURBINES 001,002,003,004	1,400	GOOD COMBUSTION CONTROLS	0.02757	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(6) COMBUSTION GS TURBINE GENERATORS STACK	1,400	FIRING NAT GAS	0.02907	BACT-PSD
TEXAS CITY OPERATIONS	TEXAS CITY, TX	1/23/2003	(4) GAS TURBINES & WHB - COMBINED	114	FIRING NAT GAS	0.03345	BACT-OTHER
GEISMAR PLANT	GEISMAR, LA	2/26/2002	(2) COGENERATION UNITS W/ AND W/O DB	320	USE OF CLEAN NATURAL GAS WITH GCP	0.03375	BACT-PSD
CHOCOLATE BAYOU PLANT	ALVIN, TX	3/24/2003	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	GCP & FIRING ONLY GASEOUS FUELS CONTAINING NO ASH	0.03582	BACT-PSD
BERRIEN ENERGY, LLC	BENTON HARBOR, MI	10/10/2002	(3) TURBINE, COMBINED CYCLE AND DB, W/ AND W/O POWER AUG.	2,300	STATE OF THE ART COMBUSTION & NATURAL GAS	0.03616	BACT-PSD
			(3) TURBINE, COMBINED CYCLE W/O DUCT BURNER	1,650		0.05041	
PSEG LAWRENCEBURG ENERGY FACILITY	LAWRENCEBURG, IN	6/7/2001	(4) TURBINE, COMBINED CYCLE	477	GOOD COMBUSTION	0.04406	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	(3) TURBINE, COMBINED CYCLE	2,400	NONE INDICATED	0.06000	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	(2) TURBINE, COMBINED CYCLE	2,112	NONE INDICATED	0.06000	BACT-PSD
CHAMPION INTERNATL CORP. & CHAMP. CLEAN ENERGY	BUCKSPORT, ME	9/14/1998	TURBINE, COMBINED CYCLE	1,400	NONE INDICATED	0.06000	BACT-OTHER
CASCO BAY ENERGY CO	VEAZIE, ME	7/13/1998	(2) TURBINE, COMBINED CYCLE	1,360	NONE INDICATED	0.06000	BACT-PSD
PORT WESTWARD PLANT	PORTLAND, OR	1/16/2002	(2) COMBUSTION TURBINES WITH DUCT BURNER	2,600	USE OF PIPELINE QUALITY NATURAL GAS	0.14000	BACT-OTHER

S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CPV WARREN	WARREN, VA	1/14/2008	NO	(2) GE 207FA NG COMBINED-CYCLE TURBINES, W/ HRSG & DB	1,944	CEMS, GOOD COMB. PRAC. 2 STAGE LEAN PREMIX	0.0002	NA
				(2) GE MODEL 7FA NATURAL GAS COMBINED-CYCLE	1,717		0.0003	
				(2) SIEMENS MODEL SGT6-5000	2,204		0.0003	
VIRGINIA ELECTRIC AND POWER COMPANY	WARREN, VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 1	1,717	GOOD COMBUSTION PRACTICES	0.0003	BACT
				ELECTRIC GENERATION - SCENARIO 2	1,944		0.0002	
				ELECTRIC GENERATION SECNARIO 3	2,204		0.0003	
GOLDENDALE ENERGY PROJECT	KIRKLAND, WA	2/23/2001	?	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	PIPELINE QUALITY NAT GAS AND GCP	0.0005	BACT-PSD
EL DORADO ENERGY, LLC	CLARK CO., NV	8/19/2004	?	(2) COMBUSTION TURBINE COMBINED CYCLE & COGEN	1,900	NONE INDICATED	0.0005	BACT-OTHER
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	?	COMBINED CYCLE COGENERATION >25MW	1,882	NATURAL GAS FUEL	0.0006	BACT
FORSYTH ENERGY PROJECTS, LLC	FORSYTH, NC	9/29/2005	YES	3 COMBINED-CYCLE COMBUSTION TURBINES W/ DB	1,844	USE OF VERY LOW-SULFUR FUEL (NATURAL GAS)	0.0006	BACT-PSD
				TURBINE & DUCT BURNER, COMBINED CYCLE, NAT GAS, 3	1,844	LOW SULFUR FUEL (NATURAL GAS)	0.0006	BACT-PSD
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	YES	(2) COMBUSTION TURBINES COMBINED CYCLE	1,783	SULFUR CONTENT IN GAS	0.0006	OTHER
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,844	USE OF VERY LOW-SULFUR FUEL (NATURAL GAS)	0.0006	BACT-PSD
NYPA POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO	(2) COMBINED CYCLE TURBINES	1,779	NONE INDICATED	0.0006	BACT
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(2) COMBINED CYCLE COMB.TURB.	1,384	USE OF NATURAL GAS ONLY	0.0006	OTHER
PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	COMBUSTION OF LOW SULFUR FUELS, NO FUEL > 0.5% S	0.0006	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	LOW SULFUR FUEL - < 0.05% S BY WT	0.0006	BACT-PSD
CAROLINA POWER & LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINES, COMBINED CYCLE	1,628	NONE INDICATED	0.0006	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,628	NONE INDICATED	0.0006	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,384	NONE INDICATED	0.0006	BACT-PSD
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	LOW SULFUR FUELS	0.0006	BACT-OTHER
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,706	FUEL SULFUR LIMITED TO < 8 PPMV FOR NG	0.0007	BACT
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	NEW GAS TURBINE PHASE 3 ONLYSTK-701	1,360	FIRING SWEET PIPELINE-QUALITY NAT GAS	0.0007	BACT-OTHER
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE, W/ DUCT BURNER	1,515	GCP, LOW SULFUR FUEL	0.0008	BACT-PSD
NORTON ENERGY STORAGE, LLC	OHIO	5/23/2002	YES	(9) COMBUSTION TURBINE COMB CYCLE W/O DUCT BURNER	2,400	NONE INDICATED	0.0008	BACT-PSD
				(9) COMBUSTION TURBINES COMB CYCLE W/ DUCT BURNER	2,400		0.0011	
FREEPORT COGENERATION FACILITY	FREEPORT, TX	6/26/1998	?	TURBINE/HRSG W/O DUCT BURNER FIRING	672	NATURAL GAS	0.0008	NSPS
				TURBINE/HRSG W/ DUCT BURNER FIRING	672		0.0012	
DUKE ENERGY WYTHE, LLC	VIRGINIA	2/5/2004	NO	(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,470	GCP & SULFUR IN NG LIMITED TO 0.3 GR/100 DSCF	0.0008	BACT-PSD
				(2) TURBINE, COMBINED CYCLE	1,827		0.0010	
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, NO DUCT BURNER FIRING	1,937	NONE INDICATED	0.0009	BACT-PSD
				TURBINE, COMBINED CYCLE, DUCT BURNER	1,937		0.0011	
(PCLP)	MAYS LANDING, NJ	9/19/1995	?	TURBINE WITH DUCT BURNER	1,048	NONE INDICATED	0.0009	BACT-PSD
				COMBUSTION TURBINE, W/O DUCT BURNER	908		0.0400	
EXXON-MOBIL BEAUMONT REFINERY	BEAUMONT, TX	3/14/2000	?	(3) COMBUSTION TURBINES W/DUCT BURN 61STK001-003	1,464	FIRING NAT GAS	0.0010	BACT-OTHER
CAITHNESS BELLPORT, LLC	SUFFOLK, NY	5/10/2006	NO	COMBINED CYCLE WITH DUCT FIRING UP TO 494 MMBTU/H	2,221	LOW SULFUR FUEL	0.0011	BACT-PSD
MEMPHIS GENERATION, LLC	MEMPHIS, TN	4/9/2001	NO	TURBINE, COMBINED CYCLE DUCT BURNER	1,698	NONE INDICATED	0.0011	BACT-PSD
MESQUITE GENERATING STATION	ARLINGTON, AZ	3/22/2001	?	TURBINE, COMBINED CYCLE	1,923	PIPELINE QUALITY NATURAL GAS	0.0011	BACT-OTHER
TransGas Energy Systems	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	CLEAN FUELS	0.0011	BACT
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURNER	1,374	MAX SULFUR CONTENT OF NG </= 0.3 GRAINS/100 SCF	0.0012	BACT-PSD
				(2) COMBUSTION TURBINE COMB. CYCLE W DUCT BURNER	1,374		0.0013	
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	NO	(4) TURBINE & DUCT BURNERS GT-HRSG 1-4	2,000	FIRING LOW S NAT GAS	0.0014	BACT-PSD
				(4) TURBINES (ONLY) HR LIMITS ONLY GT-HRSG 1-4	1,360		0.0018	
KLAMATH FALLS COGENERATION FACILITY	PORTLAND, OR	1/27/1998	?	COMBUSTION TURBINE (1 OR 2)	1,700	BURN ONLY PIPELINE QUALITY NATURAL GAS	0.0014	BACT-OTHER
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES, ALL LOADS	2,049	LOW SULFUR FUEL < 0.5 GR/100SCF	0.0014	BACT
PARIS GENERATING STATION	DALLAS, TX	10/28/1998	?	(4) GAS TURBINES W/DUCT BURNERSGT-HRSG#1-#4	2,000	FIRING NAT GAS W/ SULFUR CONTENT OF 5 GR S/100 DSCF	0.0014	BACT-PSD
				(4) GAS TURBINES GE7241FA GT-HRSG#1-#4	1,360		0.0018	
GUADALUPE GENERATING STATION	TEXAS	2/15/1999	?	(4) TURBINES W/ DUCT BURNERS CTG-1 TO 4	2,000	FIRING LOW S NAT GAS	0.0014	BACT-PSD
				(4) TURBINES - ONLY CTG-1 TO 4	1,360		0.0018	
MUSTANG ENERGY PROJECT	OKLAHOMA	2/12/2002	?	COMBUSTION TURBINES W/ DUCT BURNERS	2,480	2 GRAINS S PER 100 SCF NATURAL GAS	0.0014	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	360	LOW-SULFUR NATURAL GAS </= 4 PPM S IN NATURAL GAS	0.0015	BACT-PSD
RELIANT ENERGY HUNTERSTOWN, LLC	JOHNSTOWN, PA	6/15/2001	?	(3) COMBUSTION TURBINE COMBINED CYCLE	2,400	NONE INDICATED	0.0015	BACT-OTHER
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUEL	0.0015	BACT-PSD
SANTEE COOPER RAINEY GENERATION STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0015	BACT-PSD
SACRAMENTO MUNICIPAL UTILITY DISTRICT	SACRAMENTO, CA	9/1/2003	?	(2) GAS TURBINES	1,611	LOW SULFUR NATURAL GAS	0.0016	LAER
CPV Warren, LLC	FRONT ROYAL, VA	7/30/2004	NO	(2) COMBINED CYCLE TURBINES, GE 7FA	1,717	LOW SULFUR GAS < 0.002%	0.0016	BACT
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,375	USE OF CLEAN FUEL/NATURAL GAS	0.0017	BACT-PSD
KEYSPAN SPAGNOLI ROAD ENERGY CENTER	MELVILLE, NY	4/30/2003	NO	(1) COMBINED CYCLE COMBUSTION TURBINE	1,788	LOW SULFUR FUELS	0.0017	OTHER
WEST TEXAS ENERGY FACILITY	HOUSTON, TX	7/28/2000	NO	(2) GAS TURBINE NO POWER AUGMENTATION CASE I	2,000	LOW S FUEL	0.0017	BACT-OTHER
				(2)GAS TURBINES W/POWER AUGMENTATION CASE II	2,000		0.0020	
WALLULA POWER PLANT	WASHINGTON	1/3/2003	NO	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	LOW - SULFUR FUEL: NATURAL GAS	0.0017	BACT-OTHER
BASF CORPORATION	GEISMAR, LA	12/30/1997	?	(2) TURBINE, COGEN UNIT GE FRAME 6	339	NONE INDICATED	0.0017	OTHER
ONETA GENERATING STA	OKLAHOMA	1/21/2000	?	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	USE OF LOW SULFUR NATURAL GAS	0.0018	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	WASHINGTON	1/2/2003	NO	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	NONE INDICATED	0.0020	BACT-PSD
GENPOWER KELLEY LLC	QUINTON, AL	1/12/2001	?	(4) TURBINE, COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	NONE INDICATED	0.0020	BACT-PSD
TPS - DELL, LLC	DELL, AR	8/8/2000	YES	(2) TURBINE	2,560	LOW SULFUR FUEL	0.0020	BACT-PSD
FAIRLESS ENERGY LLC	GLEN ALLEN, PA	3/28/2002	?	(4) TURBINES, COMBINED CYCLE	2,380	LOW SULFUR FUEL	0.0020	OTHER
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	NONE INDICATED	0.0020	BACT-OTHER
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(2) NEW TURBINES, STACK 5 & 6	2,000	PIPELINE-QUALITY NAT GAS 0.8 GR S/100 DSCF	0.0020	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	?	(4) GAS TURBINES WITH HRSG (COMBINED FIRING)	1,384	USE OF PIPELINE QUALITY LOW-SULFUR NATURAL GAS	0.0020	BACT-PSD
				(4) GAS TURBINES TURBINE ONLY FIRING	1,360		0.0021	
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	2,400	NONE INDICATED	0.0020	BACT-PSD
KALKASKA GENERATING, INC	RAPID RIVER TWP, MI	2/4/2003	?	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	LOW SULFUR FUEL; S CONTENT OF FUEL IS 0.75 GR/100 SCF	0.0021	BACT-PSD
LAKE ROAD GENERATING CO., L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3	2,181	LOW SULFUR FUEL < 0.05% S	0.0022	BACT
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, COMBUSTION ABB GT-24 #1 WITH 2 CHILLERS	1,965	NAT GAS AS PRIMARY FUEL 0.8 GR/100 SCF	0.0022	BACT-PSD
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,046	LOW SULFUR FUEL NG. NATURAL GAS < 0.8 GR/100SCF	0.0022	BACT-OTHER
CABOT POWER CORPORATION	EVERETT, MA	5/7/2000	?	TURBINE, COMBINED CYCLE	2,493	CLEAN FUEL - NG WITH .8 GRAINS SULFUR/100 SCF	0.0022	BACT-PSD
BERKSHIRE POWER DEVELOPMENT, INC.	AGAWAM, MA	9/22/1997	?	TURBINE, COMBUSTION ABB GT24	1,792	DLN COMBUSTION TECHNOLOGY	0.0022	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CPV WARREN	WARREN, VA	1/14/2008	NO	(2) GE 207FA NG COMBINED-CYCLE TURBINES, W/ HRSG & DB	1,944	CEMS, GOOD COMB. PRAC. 2 STAGE LEAN PREMIX	0.0002	NA
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	?	(4) COMBUSTION TURBINE COMBINED CYCLE	2,010	SULFUR CONTENT OF FUEL.	0.0022	BACT-PSD
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2 (NATURAL GAS)	2,142	NONE INDICATED	0.0023	BACT
PANDA CULLODEN GENERATING STATION	CULLODEN, WV	12/18/2001	?	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	USE OF LOW-SULFUR FUEL - NATURAL GAS	0.0023	BACT-PSD
				COMBUSTION TURBINE, 300 MW, W/ DUCT BURNER	2,400		0.0026	
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) GAS FUELED TURBINES, STACK 1-4	2,200	LOW S FUEL	0.0023	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	?	TURBINE, COMBUSTION ABB GT11N2	1,327	DLN COMBUSTION TECHNOLOGY	0.0023	BACT-PSD
SITHE - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,676	NONE INDICATED	0.0023	BACT
DOVE VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	?	(2) COMBUSTION TURBINE W/ DUCT BURNER	2,480	PIPELINE QUALITY NATURAL GAS < 0.75 grains/100 SCF	0.0023	BACT-OTHER
MILLENNIUM POWER PARTNER, LP	CHARLTON, MA	2/2/1998	?	TURBINE, COMBUSTION WESTINGHOUSE MODEL 501G	2,534	DLN COMBUSTION TECHNOLOGY	0.0023	BACT-PSD
ANP BLACKSTONE ENERGY COMPANY	BLACKSTONE, MA	4/16/1999	?	(2) TURBINE, COMBINED CYCLE	1,815	CLEAN FUEL	0.0023	BACT-PSD
ANP BELLINGHAM ENERGY COMPANY	MARLBOROUGH, MA	8/4/1999	?	(2) TURBINES, COMBINED CYCLE	3,630	NATURAL GAS FUEL	0.0023	BACT-PSD
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 & #2	2,849	LOW SULFUR FUELS	0.0023	BACT-PSD
HARQUAHALA GENERATING PROJECT	TONOPAH, AZ	2/15/2001	?	COMBINED CYCLE NATURAL GAS	2,362	USE OF PIPELINE QUALITY NATURAL GAS ONLY	0.0025	BACT-OTHER
MIRANT SUGAR CREEK LLC	WEST TERRE HAUTE, IN	7/24/2002	?	TURBINE, COMBINED CYCLE AND DUCT BURNER	1,791	LOW S NAT GAS: < .007 %S BY WT (2 GR/100 SCF) GCP	0.0025	BACT-PSD
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	?	(3) COMBUSTION TURBINE W/ & W/O DB (ALL LOADS)	2,181	NATURAL GAS AS FUEL WITH <= 0.8% SULFUR BY WEIGHT	0.0025	NSPS
WISE COUNTY POWER	HOUSTON, TX	7/14/2000	NO	(2) COMBUSTION TURBINES STACK 1 & 2	1,840	BURN NATURAL GAS	0.0026	BACT-OTHER
ENNIS TRACTEBEL POWER	TEXAS	1/31/2003	NO	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	FIRING PIPELINE NAT GAS < 0.5 GRAINS/100 DSCF	0.0026	BACT-OTHER
LOWER MOUNT BETHEL ENERGY, LLC	PENNSYLVANIA	10/20/2001	?	(2) TURBINE, COMBINED CYCLE	1,480	LOW SULFUR FUEL	0.0027	LAER
SPRINGDALE TOWNSHIP STATION	GREENSBURG	7/12/2001	YES	TURBINE, COMBINED CYCLE	2,094	GCP, LOW SULFUR FUEL	0.0027	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE II SHORT-TERM, W/O DUCT BURNER	400	LOW SULFUR FUEL	0.0028	BACT-PSD
				UNIT NO. 9 CASE III SHORT-TERM, W/ DUCT BURNER	400		0.0030	
EDINBURG ENERGY LIMITED PARTNERSHIP	HOUSTON, TX	1/8/2002	NO	(4) COMBINED CYCLE GAS TURBINE ABB MODEL GT24	1,440	NONE INDICATED	0.0028	BACT-PSD
MIRANT SUGAR CREEK LLC	WEST TERRE HAUTE, IN	7/24/2002	?	(4) TURBINE, COMBINED CYCLE	1,491	LOW S NAT GAS: 0.007 % S BY WT (2 GR/100 SCF) GCP	0.0028	BACT-PSD
CLOVIS ENERGY FACILITY	NEW MEXICO	6/27/2002	?	(4) TURBINES, COMBINED CYCLE	1,515	PIPELINE QUALITY NAT GAS	0.0028	BACT-PSD
ELECTRIC GENERATING STATION	HOUSTON, TX	8/31/2000	?	(8) ELECTRIC GENERATION TURBINES	2,000	GCP (LOW S FUEL - 0.8 GR/100 DSCF)	0.0029	LAER
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	YES	(2) TURBINE, COMBINED CYCLE	2,699	LOW S CONTENT IN FUEL -.8 GRAINS PER 100 CU FT	0.0029	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	4/17/2003	NO	(2) TURBINES, COMBINED CYCLE	2,640	LOW S FUEL: < 2 GR/100 CF, 7 DAY AVG 1.1 GR/100 CF, 12 MO AVG	0.0030	BACT-PSD
REDBUD POWER PLANT	LUTHER, OK	3/18/2002	?	(4) COMBUSTION TURBINE AND DUCT BURNERS	1,832	VERY LOW SO2 EMISSION RATE-LOW SULFUR FUEL	0.0030	BACT-PSD
MIRANT SUGAR CREEK, LLC	WEST TERRE HAUTE, IN	5/9/2001	YES	TURBINE, COMBINED CYCLE	1,360	LOW S NATURAL GAS ONLY (LESS THAN 0.8% BY WEIGHT)	0.0031	BACT-PSD
MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) GAS TURBINES WITH DUCT BURNERS	2,097	NAT GAS W/ MAX S CONTENT OF 1 GR/100 SCF	0.0031	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE, ID	10/19/2001	?	(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,097	LOW SULFUR FUEL, 1 GR/100 SCF	0.0031	BACT-PSD
				(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,707		0.0032	
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	NO	(2) COMBUSTION GS TURBINE GENERATORS STACK7&8	1,400	NAT GAS CONTAINING NOT MORE THAN 0.8 GR S/100 DSCF	0.0033	BACT-PSD
LAKELAND C.D. - MCINTOSH POWER PLANT	LAKELAND, FL	1999	YES	(1) COMBINED CYCLE GAS TURBINE	2,407	CLEAN FUELS, GOOD COMBUSTION	0.0033	OTHER
ALLEGHENY ENERGY SUPPLY CO. LLC	INDIANA	12/7/2001	?	(2) CMBND CYCLE COMBUST. TURBINE WESTINGHOUSE 501F	2,071	USE OF LOW SULFUR NATURAL GAS AS SOLE FUEL	0.0034	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/2/1998	?	(4) COMBINED CYCLE GAS TURBINE STACK1-4	1,400	LOW S FUEL	0.0036	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LOW SULFUR FUELS.	0.0036	BACT-PSD
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0036	BACT-PSD
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	CLEAN FUELS AND GCP	0.0036	BACT-PSD
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	9/6/2002	?	(2) TURBINES, COMBINED CYCLE	1,338	FUEL SULFUR CONTENT	0.0038	BACT-PSD
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, ABB	600	NONE INDICATED	0.0040	BACT-OTHER
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	?	(3) COMBINED CYCLE TURBINE W/ AND W/O DUCT BURNER	3,202	NONE INDICATED	0.0040	OTHER
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	NO	(6) COMBUSTION GS TURBINE GENERATORS STACK	1,400	NAT GAS CONTAINING NOT MORE THAN 0.8 GR S/100 DSCF	0.0041	BACT-PSD
PANDA-KATHLEEN, L.P.	LAKELAND, FL	6/1/1995	NO	TURBINE, COMBINED CYCLE COMBUSTION, GE	600	NONE INDICATED	0.0042	BACT-OTHER
KLEEN ENERGY SYSTEMS, LLC (DRAFT)	MIDDLESEX, CT	2/25/2008	NO	(2) SIEMENS SGT6-5000F TURBINES (HRSG & NG DUCT BURNER)	1,071	NONE INDICATED	0.0048	BACT-PSD
JACK COUNTY POWER PLANT	HOUSTON, TX	3/14/2000	NO	(2) GE-7241FA TURBINES, HRSG-1&-2	2,080	FIRING PIPELINE NAT GAS	0.0048	BACT-PSD
JAMES CITY ENERGY PARK	VIRGINIA	12/1/2003	?	TURBINE, COMBINED CYCLE, DUCT BURNER	2,325	LOW SULFUR FUELS	0.0049	BACT-PSD
				TURBINE, COMBINED CYCLE	1,973		0.0058	
HAYWOOD ENERGY CENTER, LLC	TAMPA	2/1/2002	?	TURBINE, COMBINED CYCLE W/O DUCT FIRING	1,990	LOW SULFUR FUEL (<2.0 GR SULFUR PER 100 SCF OF NATURAL GAS)	0.0049	BACT-PSD
				TURBINE, COMBINED CYCLE W/ DUCT FIRING	1,990		0.0059	
CRESENT CITY POWER, LLC	ORLEANS, LA	6/6/2005	YES	600 MW NATURAL GAS-FIRED COMBINED CYCLE POWER PLANT	2,006	USE OF LOW SULFUR NATURAL GAS, 1.8 GRAINS PER 100 SCF	0.0050	BACT-PSD
REDBUD POWER PLT	TULSA, OK	8/15/2001	?	(4) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	1,698	LOW SULFUR FUEL - PIPELINE QUALITY NATURAL GAS	0.0050	BACT-PSD
THUNDERBIRD POWER PLT	TULSA, OK	5/17/2001	?	(3) TURBINES, COMBINED CYCLE, W/ DUCT FIRING	1,698	PIPELINE QUALITY NATURAL GAS	0.0050	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	RICHMOND, TX	12/31/2002	?	(4) HRSG/TURBINES 001,002,003,004	1,400	FIRING NAT GAS < 0.25 GR S/100 DSCF 12 MO ROLLING AV	0.0051	BACT-PSD
RELIANT ENERGY HOPE GENERATING FACILITY	JOHNSTON, RI	5/3/2000	?	(2) TURBINE, COMBINED CYCLE	1,488	CLEAN FUEL - NATURAL GAS	0.0054	BACT-PSD
BP CHERRY POINT COGENERATION	WHATCOM CO., WA	3/1/2004	NO	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	NATURAL GAS FUEL	0.0055	BACT
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	1/28/2003	YES	(2) TURBINE, COMBINED CYCLE	2,200	SWEET NAT GAS W/ MAX S CONTENT 0.8 GR/100 SCF	0.0055	BACT-PSD
FLORIDA POWER AND LIGHT COMPANY (FP&L)	PALM BEACH CO., FL	7/30/2008	?	THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTARY-FIRED HR	2,333	NONE INDICATED	0.0056	BACT
FLORIDA MUNICIPAL POWER AGENCY (FMPA)	OSCEOLA, FL	9/8/2008	?	300 MW COMBINED CYCLE COMBUSTION TURBINE	1,860	FUEL SPECIFICATIONS.	0.0056	BACT
PROGRESS ENERGY FLORIDA (PEF)	PINELLAS, FL	1/26/2007	NO	COMBINED CYCLE COMBUSTION TURBINE SYSTEM (4-ON-1)	493	NONE INDICATED	0.0056	BACT-PSD
FLORIDA POWER AND LIGHT COMPANY	WEST PALM BEACH, FL	1/10/2007	NO	COMBINED CYCLE COMBUSTION GAS TURBINES - 6 UNITS	389	LOW SULFUR FUELS	0.0056	BACT-PSD
PROGRESS ENERGY	POLK, FL	6/8/2005	YES	COMBINED CYCLE POWER PLANT (4TH POWER BLOCK) TOTAL GEN CAPACITY OF FACILITY 2090 MW.	4,240	CLEAN FUELS	0.0056	BACT-PSD
FLORIDA POWER AND LIGHT	DADE, FL	2/8/2005	YES	4 GE MODEL FA GAS TURBINES (170 MW EACH), 4 HRSGS, 1 STEAM TURBINE-ELECTRICAL GENERATOR (470 MW)	1,360	GAS AND RESTRICTING THE AMOUNTS OF ULTRA LOW SULFUR DISTILLATE OIL.	0.0056	BACT-PSD
WEATHERFORD ELECTRIC GENERATION FACILITY	TEXAS	3/11/2002	NO	(2) GE7121EA GAS TURBINES	1,079	PIPELINE-QUALITY, SWEET NAT GAS 2.0 GR S/100 DSCF	0.0056	NSPS
HORSESHOE ENERGY PROJECT	OKLAHOMA	2/12/2002	?	TURBINES AND DUCT BURNERS	2,480	LOW SULFUR FUEL (NATURAL GAS)	0.0056	BACT-PSD
CALPINE CONSTRUCTION FINANCE CO., LP	ONTELAUNEE TWP., PA	10/10/2000	?	TURBINE, COMBINED CYCLE	1,456	GCP BASED ON SULFUR CONTENT (2 GR/DSCF)	0.0056	BACT-OTHER
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	?	TWO COMBINED CYCLE GAS TURBINES	2,110	USE LOW-SULFUR PIPELINE-QUALITY NATURAL GAS AS FUEL	0.0057	BACT
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	LOW SULFUR FUELS	0.0057	BACT-PSD
DUKE ENERGY DALE, LLC	HOUSTON, AL	12/1/2001	?	(2) GE 7FA COMB. CYCLE W/DB	1,928	NATURAL GAS AS EXCLUSIVE FUEL.	0.0057	BACT-PSD
LAWRENCE ENERGY	OHIO	9/24/2002	YES	(3) TURBINES, COMBINED CYCLE DUCT BURNERS ON/OFF	1,440	BURNING NATURAL GAS	0.0057	BACT-PSD
FREMONT ENERGY CENTER, LLC	OHIO	8/9/2001	YES	(2) COMBUSTION TURBINES COMB CYCLE W/ & W/O DB	1,440	NONE INDICATED	0.0057	BACT-PSD
DUKE ENERGY, VIGO LLC	WEST TERRE HAUTE, IN	6/6/2001	YES	(2) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	1,945	GOOD COMBUSTION. NATURAL GAS ONLY	0.0057	BACT-PSD
				(2) TURBINE, COMBINED CYCLE, W/O DUCT BURNER	1,360		0.0083	

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CPV WARREN	WARREN, VA	1/14/2008	NO	(2) GE 207FA NG COMBINED-CYCLE TURBINES, W/ HRSG & DB	1,944	CEMS, GOOD COMB. PRAC. 2 STAGE LEAN PREMIX	0.0002	NA
CPV GULFCOAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,700	CLEAN FUELS. < 0.0065 % S GAS COMBUSTION CONTROLS	0.0059	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE	1,480	FUEL SPECIFICATION: LOW SULFUR FUELS	0.0060	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	INDIANA	10/5/2001	?	(3) TURBINES, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,944	GCP	0.0060	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	?	(2) TURBINE, COMBINED CYCLE	2,112	NONE INDICATED	0.0060	BACT-PSD
CASCO BAY ENERGY CO	VEAZIE, ME	7/13/1998	?	(2) TURBINE, COMBINED CYCLE	1,360	NONE INDICATED	0.0060	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	OKLAHOMA	10/1/1999	?	(3) TURBINES W/ DUCT BURNERS, COMBINED CYCLE	2,133	USE OF NATURAL GAS	0.0060	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	OKLAHOMA	12/10/2001	?	(2) TURBINES, COMBINED CYCLE	1,701	PIPELINE-QUALITY NATURAL GAS (VERY LOW SULFUR FUEL) MAXIMUM 0.8 % S BY WT.	0.0060	BACT-PSD
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	?	TURBINE, COMBINED CYCLE W/O DUCT BURNERS	2,166	CLEAN FUEL	0.0060	BACT-PSD
				TURBINE, COMBINED CYCLE W DUCT BURNER	2,516		0.0062	
HENRY COUNTY POWER	VIRGINIA	11/21/2002	?	(4) TURBINE, COMBINED CYCLE 100%LOAD, W/ DUCT FIRING	2,200	LOW SULFUR FUELS AND GOOD COMBUSTION DESIGN	0.0060	BACT-PSD
				(4) TURBINE, COMBINED CYCLE 70%LOAD, W/ DUCT FIRING	958		0.0135	
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7.8.9	360	FIRING NAT GAS, 1.25 GR/100SCF	0.0061	BACT-OTHER
JACKSON COUNTY POWER, LLC	OHIO	12/27/2001	YES	(4) COMBUSTION TURBINES COMBINED CYCLE, W/ DUCT BURNER	2,440	LOW SULFUR FUEL (2) GR/100 SCF	0.0063	BACT-PSD
MCCLAIN ENERGY FACILITY	OKLAHOMA	1/19/2000	?	COMBUSTION TURBINES W/ NON-FIRED HEAT RECOVERY	1,360	NONE INDICATED	0.0067	BACT-PSD
VALERO REFINING COMPANY	BENICIA, CA	1/11/2000	YES	(2) COMBUSTION TURBINE, COMBINED CYCLE	816	AMINE SCRUBBER	0.0069	LAER
ENNIS TRACTEBEL POWER	ENNIS, TX	1/31/2002	NO	COMBUSTION TURBINE W/HEAT RECOVERY STEAM GENERATOR	2,800	PIPELINE QUALITY NAT GAS < 2.5 GR S/100 DSCF SHORT-TERM, AND 0.2 GR S/100 DSCF 12 MO ROLLING AV	0.0069	NSPS
KAUFMAN COGEN LP	TEXAS	1/31/2000	NO	(2) GAS TURBINES HRSG-1 & - 2	1,440	PIPELINE QUALITY NAT GAS < 2.0 GR S/100 DSCF	0.0069	BACT-PSD
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	LOW S FUELS AND EFFICIENT COMBUSTION TECHNIQUES		BACT
BARTON SHOALS ENERGY	ENGLEWOOD, AL	7/12/2002	?	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	NATURAL GAS ONLY	0.0070	BACT-PSD
ROCHE VITAMINS	BELVIDERE, NJ	10/8/1997	?	COMBUSTION TURBINE W/ AND W/O DUCT BURNER	623	LNB	0.0070	BACT-PSD
FPL ENERGY MARCUS HOOK, L.P.	MARCUS HOOK, PA	5/4/2003	?	(3) TURBINE, COMBINED CYCLE	1,798	LOW SULFUR FUEL	0.0070	BACT-OTHER
				(3) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,191		0.0080	
CALEDONIA POWER LLC	CALEDONIA, MS	3/27/2001	?	ELECTRIC POWER GENERATION TURBINE & DUCT BURNER	1,700	NONE INDICATED	0.0071	BACT-OTHER
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE, W/ & W/O DB	2,423	CLEAN FUELS	0.0071	OTHER
LSP- BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/13/2001	?	COMBINED CYCLE COMBUSTION TURBINE GENERATION	2,100	NATURAL GAS A FUEL	0.0071	BACT-PSD
BELL ENERGY FACILITY	TEMPLE, TX	6/26/2001	NO	(2) GAS TURBINES (HRSG-1 AND HRSG-2)	1,400	LOW SULFUR FUEL	0.0071	BACT-PSD
CEDAR BLUFF POWER PROJECT	CEDAR BLUFF, TX	12/21/2000	NO	(2) COMBUSTION TURBINES W/HRSG STACK1&2	2,640	NAT GAS W/ S CONTENT OF 0.2 GR S/100 DSCF ANNUALLY AND 2.5 GR S/100 DSCF HOURLY	0.0072	BACT-OTHER
PIKE GENERATION FACILITY	MISSISSIPPI	9/24/2002	NO	(4) TURBINES, COMBINED CYCLE, WITH DUCT BURNER	2,168	LOW SULFUR FUEL	0.0072	BACT-PSD
WEST CAMPUS COGENERATION COMPANY	HOUSTON, TX	5/2/1994	NO	GAS TURBINES UNITS 1 & 2 W/ DUCT BURNER	602	INTERNAL COMBUSTION CONTROLS	0.0073	BACT-OTHER
HIDALGO ENERGY FACILITY	SAN ANTONIO, TX	12/22/1998	NO	(2) GE-7241FA TURBINES HRSG-1 & -2	1,400	FIRING NAT GAS	0.0076	BACT-PSD
RENAISSANCE POWER LLC	MICHIGAN	6/7/2001	?	(3) TURBINES, STATIONARY GAS COMBINED CYCLE	1,360	PIPELINE QUALITY NATURAL GAS OF NGT 0.5 GR/100 CF	0.0079	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	OHIO	12/13/2001	?	(4) TURBINES COMBINED CYCLE DUCT BURNERS OFF	1,376	LOW SULFUR FUEL: MAXIMUM S CONTENT OF NATURAL GAS < 2 GRAINS/100 SCF	0.0080	BACT-PSD
				(4) TURBINES COMBINED CYCLE DUCT BURNERS ON	1,376		0.0105	
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	YES	(2) TURBINE COMBINED CYCLE NO DUCT FIRING	1,360	LOW S NATURAL GAS 2 GR/100 SCF	0.0082	BACT-PSD
				(2) TURBINE COMBINED CYCLE DUCT FIRING	1,360		0.0107	
MIRANT AIRSIDE INDUSTRIAL PARK	VIRGINIA	12/6/2002	?	(2) TURBINE, COMBINED CYCLE	1,962	LOW SULFUR FUELS AND GCP	0.0085	BACT-PSD
CHAMPION INTL CORP. & CHAMP. CLEAN ENERGY	BUCKSPORT, ME	9/14/1998	?	TURBINE, COMBINED CYCLE	1,400	NONE INDICATED	0.0086	BACT-OTHER
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CITY, OK	8/16/2001	?	(4) TURBINES, COMBINED CYCLE	1,372	PIPELINE NAT GAS S CONTENT < 2 GR/100 SCF OR 65 PPMW	0.0101	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	YES	(3) TURBINES, COMBINED CYCLE W/ DUCT FIRING	1,360	NONE INDICATED	0.0103	BACT-PSD
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(2) TURBINE/HRSG NO.1.2	3,168	PIPELINE NG; SHORT-TERM MAX 5 GR S/100CF; < 2 GR S/100 CF	0.0106	BACT-PSD
GREGORY POWER FACILITY	COSTA MESA, TX	6/16/1999	NO	(2) COMBUSTION TURBINES NO DUCT BURN EPN 101&102	1,480	PIPELINE QUALITY NAT GAS, CONTAINING < 3 GR S/100 DSCF (SHORT-TERM) AND 0.25 GR S/100 DSCF 12 MO ROLLING AV	0.0106	NSPS
				(2) COMBUSTION TURBINES W/DUCT BURN EPN101&102	1,480		0.0133	
SOUTHWEST ELECTRIC POWER COMPANY	SHREVEPORT, LA	3/20/2008	YES	(2) COMBINED CYCLE GAS TURBINES	1,055	USE LOW-SULFUR PIPELINE-QUALITY NATURAL GAS	0.0114	BACT-PSD
CPV CUNNINGHAM CREEK	SILVER SPRING, VA	9/6/2002	NO	(2) TURBINE, COMBINED CYCLE	2,132	NAT GAS, < 3 GR S/100 DSCF (SHORT-TERM)& 0.25 GR S/100 DSCF 12 MO ROLLING AV	0.0119	BACT-PSD
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	NONE INDICATED	0.0124	BACT-OTHER
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	NO	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	3,228	NONE INDICATED	0.0129	NSPS
MONTGOMERY COUNTY POWER PROJECT	TEXAS	6/27/2001	NO	(2) CTG-HRSG STACKS STACK1 & 2	1,440	PIPELINE-QUALITY NAT GAS CONTAINING < 0.2 GR S/100 DSCF ON AN ANNUAL AV AND 2.5 GR S/100 DSCF ON A MAX H BASIS	0.0131	BACT-OTHER
WHITING CLEAN ENERGY, INC.	WHITING, IN	7/20/2000	YES	(2) TURBINES, COMBUSTION	1,735	GCP AND LOW SULFUR FUEL (0.8 % BY WT SULFUR)	0.0131	NSPS
				(2) TURBINES, COMBUSTION W/DUCT BURNER	1,735		6.0000	
PLANT NO. 2	LUBBOCK, TX	1/8/1999	?	(2) TURBINE/DUCT BURNER STGT1 & T2	336	LOW S FUEL	0.0134	BACT-OTHER
TENASKA ALABAMA GENERATING STATION	BILLINGSLY, AL	11/29/1999	YES	(3) TURBINE & DUCT BURNER	1,360	PIPELINE QUALITY NATURAL GAS	0.0140	BACT-PSD
BAYTOWN COGENERATION PLANT	TEXAS	2/11/2000	?	(3) TURBINE/HRSGS CTG1-3	2,000	GCP & FIRING LOW S-CONTENT FUELS	0.0141	BACT-OTHER
THE DOW CHEMICAL COMPANY	IBERVILLA, LA	7/23/2008	?	(4) GAS TURBINES/DUCT BURNERS	2,876	LOW SULFUR FUELS WITH MAXIMUM SULFUR CONTENT OF 5 GR/100 SCF	0.0142	BACT
PLAQUEMINE, IBERVILLE PARISH	LOUISIANA	12/26/2001	?	(4) GAS TURBINES/DUCT BURNERS	2,876	LOW SULFUR FUELS MAX S CONTENT OF 5 GR/100 SCF	0.0142	BACT-PSD
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	LOW SULFUR FUEL	0.0146	OTHER
RIO NOGALES POWER PROJECT	TEXAS	12/3/1999	?	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	FIRING NAT GAS	0.0152	BACT-PSD
EL PASO MERCHANT ENERGY CO.	MISSISSIPPI	6/24/2002	?	(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,062	LOW SULFUR FUEL	0.0156	BACT-PSD
RELIANT ENERGY- CHANNELVIEW COGEN	HOUSTON, TX	10/29/2001	NO	(4) TURBINE/HRSG #1-#4	2,350	NONE INDICATED	0.0165	BACT-PSD
BERRIEN ENERGY, LLC	BENTON HARBOR, MI	10/10/2002	?	(3) TURBINE, COMBINED CYCLE AND DUCT BURNER	2,300	USE OF PIPELINE QUALITY NATURAL GAS., S<0.5%	0.0173	BACT-PSD
LOST PINES 1 POWER PLANT	AUSTIN, TX	9/30/1999	?	(2) COMBINED CYCLE TURBINE	1,464	GCP, LOW SULFUR FUEL	0.0176	BACT-OTHER
MAGIC VALLEY GENERATION STATION	TEXAS	12/31/1998	NO	(2) TURBINE/HRSG CTG-1 & CTG-2	1,920	GC,P FIRE ONLY NAT GAS W/ S CONTENT < 5.0 GR/100 DSCF	0.0190	BACT-PSD
FORNEY PLANT	HOUSTON, TX	3/6/2000	NO	(6) TURBINES	1,358	FIRING LOW SULFUR PIPELINE NAT GAS	0.0194	BACT-PSD
				(6) COMBINED TURBINE & DUCT BURNER	1,358		0.0487	
GATEWAY POWER PROJECT	TEXAS	3/20/2000	?	(3) COMBUSTION TURBINES WITHOUT DB CTG (1), (2), (3)	1,440	FIRING NAT GAS	0.0208	BACT-OTHER
				(3) COMBUSTION TURBINES & DUCTBURNERS CTG (1), (2), (3)	1,360		0.0250	
BASTROP CLEAN ENERGY CENTER	BASTROP, TX	3/21/2000	NO	(2) COMBUSTION TURBINE GENERATORS ONLY	1,288	GCP. LOW S FUEL: < 5.0 GR S/100 DSCF (SHORT-TERM) + 1.0 GR TOTAL S/100 DSCF (ANNUAL AVG)	0.0211	BACT-PSD
				(2) TURBINES AND DUCT BURNERS COMBINED	1,288		0.0244	

Appendix G

Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW

Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CPV WARREN	WARREN, VA	1/14/2008	NO	(2) GE 207FA NG COMBINED-CYCLE TURBINES, W/ HRSG & DB	1,944	CEMS, GOOD COMB. PRAC. 2 STAGE LEAN PREMIX	0.0002	NA
DEER PARK ENERGY CENTER	HOUSTON, TX	8/22/2001	?	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	FIRING LOW-S FUELS	0.0222	BACT-OTHER
PALESTINE ENERGY FACILITY	PALESTINE, TX	12/13/2000	NO	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	GCP, LOW SULFUR FUELS (NAT GAS W/< 5 GR S/100 DSCF ON H AVER & 0.25 GR S/100 DSCF FOR AN ANN. AVER)	0.0224	BACT-OTHER
TENASKA FRONTIER GENERATION STATION	TEXAS	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464	FIRING NATURAL GAS IN THE TURBINES AND DUCT BURNERS	0.0229	BACT-PSD
PSEG LAWRENCEBURG ENERGY FACILITY	LAWRENCEBURG, IN	6/7/2001	YES	(4) TURBINE, COMBINED CYCLE	477	LOW SULFUR NATURAL GAS (LESS THAN 2 G/DSCF)	0.0231	BACT-PSD
PASADENA 2 POWER FACILITY	TEXAS	9/30/1998	?	(2) TURBINE/HRSG (CG-2,CG-3)	1,280	LOW SULFUR FUEL (<5 GR/100 SCF) AND PROPER COMBUSTION	0.0232	BACT-PSD
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	PIPELINE QUALITY NAT GAS	0.0258	BACT-PSD
LIMA ENERGY COMPANY	CINCINNATI, OH	3/26/2002	?	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	USE OF SOLVENT BASED ABSORPTION TECHNOLOGY WITH TAIL GAS RECIRCULATION PRIOR TO COMBUSTION	0.0284	BACT-PSD
FLEETWOOD COGENERATION ASSOCIATES	FLEETWOOD, PA	4/22/1994	?	NG TURBINE (GE LM6000) WITH WASTE HEAT BOILER	360	FUEL SPEC: 0.1 % SULFUR IN FUEL	0.0314	BACT-OTHER
VH BRAUNIG A VON ROSENBERG PLANT	SAN ANTONIO, TX	10/14/1998	NO	(2) COMBUSTION TURBINES & HRSG W/ DUCT BURN E5&6	1,488	PIPELINE QUALITY NAT GAS WITH NO > 1.0 GR S/100 DSCF	0.0392	NSPS
UCC SEADRIFT OPERATIONS	PORT LAVACA, TX	10/20/1999	?	COGEN STACK TURBINE ONLY	310	FIRING PIPELINE QUALITY NAT GAS	0.0481	BACT-OTHER
				COGEN STACK COMBINED GT/HRSG&DB 1180	310		0.0757	
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	(2) CASE I: TURBINES E-1+E-2 W/O HRSG	720	NONE INDICATED	0.0411	NSPS
				(2) CASE II: TURBINES E-1+E-2 W/ HRSG	720		0.0438	
CHOCOLATE BAYOU PLANT	ALVIN, TX	3/24/2003	NO	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	GCP & LOW S FUEL GASES < 0.5 GRAINS/DSCF	0.0452	BACT-OTHER
CALPINE BERKS ONTELAUNEE POWER PLANT	READING, PA	10/10/2000	?	(2) TURBINES, COMBINED CYCLE	2,176	NONE INDICATED	0.0460	SIP
TEXAS CITY OPERATIONS	TEXAS CITY, TX	1/23/2003	?	(4) GAS TURBINES & WHB - COMBINED	114	PRIMARY FUEL GAS OR PIPELINE QUALITY SWEET NATURAL GAS WITH NO > 5 GR/100	0.0528	NSPS
SWEENY COGENERATION FACILITY	DALLAS, TX	9/30/1998	NO	(4) GAS TURBINE/HRSG 1-4, EPN1-4	970	S & H2S LIMITATIONS IN FUEL SPECIFIED AT THE FACILITY LEVEL	0.0796	BACT-OTHER
BLUEWATER ENERGY CENTER LLC	MICHIGAN	1/7/2003	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	USE OF PIPELINE QUALITY GAS AND GCP	0.0842	BACT-PSD
INEOS USA LLC	BRAZORIA, TX	8/29/2006	YES	COGENERATION TRAIN 2 AND 3 (TURBINE & DB)	140	TURBINES & DB WILL FIRE NATL GAS & COMPLEX GAS W/ S CONTENT < 5 GR/100 SCF ON AN HOURLY BASIS	0.0904	BACT-PSD
KANSAS CITY POWER & LIGHT CO. - HAWTHORN	KANSAS CITY, MO	8/19/1999	YES	(2) TURBINE, COMBINED	1,360	NONE INDICATED	0.2000	BACT-OTHER
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES, COMBINED CYCLE	1,795	S CONTENT OF FUEL LESS THAN OR EQUAL TO 0.2% BY WEIGHT	0.4028	BACT-PSD
GULF STATES UTILITIES COMPANY - LOUISIANA	BATON ROUGE, LA	2/7/1996	?	NO.4 TURBINE/HRSG	1,573	MAX H2S CONC OF 33.53 PPM @ 15% O2 IN FLUE GAS (DRY BASIS)	1.0212	OTHER
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	PIPELINE NATURAL GAS < 1.5 GR/100 SCF	--	BACT
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	PIPELINE NATURAL GAS < 1.5 GR/100 SCF	--	BACT
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	?	(1) COMBINED CYCLE GAS TURBINE	1,742	PIPELINE NATURAL GAS < 1.5 GR/100 SCF	--	BACT
DUKE ENERGY-JACKSON FACILITY	ARKANSAS	4/1/2002	NO	(2) TURBINES, COMBINED CYCLE	1,360	CLEAN FUEL	--	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	FUEL SPEC: NATURAL GAS FUEL; COMBUSTION OF CLEAN FUELS	--	BACT-PSD
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,696	NATURAL GAS	--	BACT-PSD
DUKE ENERGY NEW SMYRNA BEACH POWER CO. LP	NEW SMYRNA BEACH, FL	10/15/1999	?	(2) TURBINE, COMBINED CYCLE	2,000	NATURAL GAS ONLY	--	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	PERMIT LIMIT IS LOW SULFUR FUELS	--	
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE	1,700	LOW SULFUR FUELS: GAS < .0065 % SULFUR;NO EMISSION LIMITS	--	BACT-PSD
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	NATURAL GAS 1 GR/100 SCF OF GAS	--	BACT-PSD
OUC STANTON ENERGY CENTER	PENSACOLA, FL	9/21/2001	YES	(2) TURBINE, COMBINED CYCLE	2,402	CLEAN FUELS	--	BACT-PSD
JEABRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	CLEAN FUELS SULFUR FUEL LIMIT	--	BACT-OTHER
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,680	CLEAN FUELS - < .0065 % S	--	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,680	CLEAN FUELS, FUEL SULFUR LIMIT: .0065% S	--	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	LOW SULFUR FUELS	--	BACT-PSD
FPL MANATEE PLANT - UNIT 3	PARRISH, FL	4/15/2003	?	(4) TURBINE, COMBINED CYCLE	1,600	LOW SULFUR FUELS	--	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	NAT GAS W/ MAX OF 2.0 GRAINS OF SULFUR PER 100 SCF	--	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	PERMIT LIMIT IS LOW SULFUR FUELS	--	BACT-PSD
SOUTH SHORE POWER LLC	BRIDGEMAN, MI	1/30/2003	?	(2) TURBINE, COMBINED CYCLE	1,376	PIPELINE QUALITY NAT GAS W/ 0.2 GR S/100 CF	--	BACT-PSD
MIDLAND COGENERATION (MCV)	MIDLAND, MI	4/21/2003	NO	(11) TURBINE, COMBINED CYCLE	984	NAT GAS W/S CONTENT OF 0.2 GRAINS/100 CF OF GAS	--	BACT-PSD
BLACK DOG GENERATING PLANT	BURNSVILLE, MN	1/12/2001	?	TURBINE, COMBINED CYCLE	2,320	MAX S CONTENT 0.004 GR/DSCF USING 12-MONTH ROLLING AVG	--	BACT-PSD
COB ENERGY FACILITY, LLC	OREGON	12/30/2003	?	(4) TURBINE, COMBINED CYCLE DUCT BURNER	2,300	LOW SULFUR FUEL: < 0.8 % S BY WT	--	NSPS
KLAMATH GENERATION, LLC	PORTLAND, OR	3/12/2003	NO	(2) TURBINE, COMBINED CYCLE DUCT BURNER	1,920	FUEL NOT TO EXCEED 0.8 % S BY WT	--	BACT-PSD
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	FUEL SPEC: LNG/LPG AS PRIMARY FUEL	--	BACT-PSD
CHAMBERS ENERGY L.P./AMERICAN NATIONAL POWER	SAN ANTONIO, TX	3/6/2000	NO	(8) ABB GT-24 COMBUSTION TURBINES	1,440	LOW SULFUR FUEL	--	BACT-PSD
CHANNELVIEW COGENERATION FACILITY	HOUSTON, TX	12/9/1999	YES	(4) TURBINE COGENERATION FACILITY	1,600	NG W/ S CONT <5.0 GRAINS/100 DSCF (HRLY), <0.2 GRAINS/100 DSCF (ANNUAL), GCP	--	BACT-OTHER

S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Woodbridge Energy Center
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfuric Acid Mist Emissions

FACILITY	LOCATION	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	THROUGHPUT MW (TOTAL)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDOLA	3/20/2008	?	TWO COMBINED CYCLE GAS TURBINES	2,110	528	USE OF LOW-SULFUR PIPELINE QUALITY NATURAL GAS AS FUEL AND PROPER SCR DESIGN	0.00008
NORTON ENERGY STORAGE, LLC	HOUSTON	5/23/2002	YES	(9) COMBUSTION TURBINES COMB CYCLE W/O DB	2,400	2700	NONE LISTED	0.00008
				(9) COMBUSTION TURBINE COMB CYCLE W/ DB	2,400	2700	NONE LISTED	0.00011
VIRGINIA ELECTRIC AND POWER COMPANY	WARREN,VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 1	1,717	215	GOOD COMBUSTION PRACTICES	0.00010
				ELECTRIC GENERATION - SCENARIO 2	1,944	243	GOOD COMBUSTION PRACTICES.	0.00020
				ELECTRIC GENERATION SECNARIO 3	2,204	276	GOOD COMBUSTION PRACTICES.	0.00010
CPV WARREN	WARREN,VA	1/14/2008	NO	ELECTRIC GENERATION - SCENARIO 1	1,717	215	GOOD COMBUSTION PRACTICES	0.00010
				ELECTRIC GENERATION - SCENARIO 2	1,944	243	GOOD COMBUSTION PRACTICES	0.00020
				ELECTRIC GENERATION SECNARIO 3	2,204	276	GOOD COMBUSTION PRACTICES	0.00010
GOLDENDALE ENERGY PROJECT	KIRKLAND, WA	2/23/2001	?	COMBINED CYCLE UNIT (TURBINE/HRSG)	1,990	249	USE OF NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.00010
DRESDEN ENERGY LLC	RICHMOND	10/16/2001	YES	(2) COMBUSTION TURBINE W/ & W/O DB	1,374	343	NONE LISTED	0.00015
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	340	LOW SULFUR FUELS	0.00018
SANTEE COOPER RAINEY GENERATION STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINES, COMBINED CYCLE	1,360	340	LOW SULFUR FUELS	0.00018
NYPA POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	?	(2) COMBINED CYCLE TURBINES	1,779	445	NONE INDICATED	0.00020
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	282	NATURAL GAS COMBUSTION	0.00020
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	NO	(4) TURBINES (ONLY) HR LIMITS ONLY GT-HRSG 1-4	1,360	680	FIRING LOW-S NATURAL GAS	0.00020
				(4) TURBINE & DUCT BURNERS GT-HRSG 1-4	2,000	1000	NONE INDICATED	0.00015
ONETA GENERATING STA	OKLAHOMA	1/21/2000	?	(4) COMBUSTION TURBINES, COMBINED CYCLE	1,360	680	USE OF LOW SULFUR NATURAL GAS FUEL	0.00021
PANDA CULLODEN GENERATING STATION	CULLODEN	12/18/2001	?	COMBUSTION TURBINE, 300 MW, W/O DUCT BURNER	2,400	300	USE OF LOW-SULFUR FUEL - NATURAL GAS	0.00026
				COMBUSTION TURBINE, 300 MW, W/ DUCT BURNER	2,400	300	USE OF LOW-SULFUR FUEL - NATURAL GAS	0.00030
CALPINE BERKS ONTELAUNEE POWER PLANT	READING, PA	10/10/2000	?	(2) TURBINES, COMBINED CYCLE	2,176	544	NONE LISTED	0.00030
SPRINGDALE TOWNSHIP STATION	GREENSBURG	7/12/2001	YES	TURBINE, COMBINED CYCLE	2,094	262	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	0.00033
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	1,815	681	LOW SULFUR FUEL < 0.5 GR/100SCF	0.00033
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	YES	(3) TURBINES, COMBINED CYCLE W/O DUCT FIRING	1,360	510	NONE LISTED	0.00035
				(3) TURBINES, COMBINED CYCLE W/ DUCT FIRING	1,360	510	NONE LISTED	0.00041
LIMA ENERGY COMPANY	CINCINNATI	3/26/2002	?	(2) COMBUSTION TURBINE COMBINED CYCLE	1,360	340	NONE LISTED	0.00039
CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK,NY	5/10/2006	?	COMBUSTION TURBINE	2,221	278	LOW SULFUR FUEL	0.00040
TRACY SUBSTATION EXPANSION PROJECT	STOREY COUNTY,NV	8/16/2005	?	TURBINE, CC COMBUSTION #1 WITH HRSG & DB	2,448	306	BEST COMBUSTION PRACTICES	0.00041
WEATHERFORD ELECTRIC GENERATION FACILITY	ATLANTA	3/11/2002	NO	(2) GE7121EA GAS TURBINES	1,079	270	PIPELINE-QUALITY NAT GAS	0.00046
JACKSON COUNTY POWER, LLC	CHARLOTTE	12/27/2001	YES	(4) COMBUSTION TURBINES W/ DUCT BURNER	2,440	1220	NONE LISTED	0.00048
CPV WARREN LLC	WARREN,VA	7/30/2004	?	TURBINE, COMBINED CYCLE (2)	1,717	429	MAX. 0.002% BY WT MAX S CONTENT	0.00050
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	4/17/2003	NO	(2) TURBINES, COMBINED CYCLE	2,640			0.00062
						660	LOW SULFUR FUEL: < 2 GR/100 CF 7 DAY AVG 1.1 GR/100 CF 12 MO AVG	
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360			0.00066
						340	GOOD COMBUSTION PRACTICES CLEAN BURNING LOW SULFUR FUELS	
DUKE ENERGY DALE, LLC	HOUSTON	12/11/2001	?	(2) GE 7FA COMB. CYCLE W/DB	1,928	482	NATURAL GAS AS EXCLUSIVE FUEL	0.00070
DUKE ENERGY AUTAUGA, LLC	HOUSTON	10/23/2001	?	(2) GE COM. CYCLE UNITS W/HRSG & 550 MMBTU/HR DB	2,407	602	NATURAL GAS AS EXCLUSIVE FUEL	0.00070
WALLULA POWER PLANT	WASHINGTON	1/3/2003	NO	(4) TURBINE, COMBINED CYCLE NATURAL GAS	2,600	1300	EXCLUSIVE USE OF NATURAL GAS	0.00073
BROOKHAVEN ENERGY, LP	YAPHANK, NY	7/18/2002	NO	(4) COMBINED CYCLE TURBINES, 75%-100%	1,897	949	NONE LISTED	0.00078
SUMAS ENERGY 2 GENERATION FACILITY	SUMAS, WA	9/6/2002	?	(2) TURBINES, COMBINED CYCLE	1,338	335	LOW SULFUR FUEL -- NATURAL GAS ONLY	0.00080
ENNIS TRACTEBEL POWER	ENNIS	1/31/2002	NO	COMBUSTION TURBINE W/HRSG	2,800	350	NONE INDICATED	0.00085
ARSENAL HILL POWER PLANT	CADDOLA	3/20/2008	NO	TWO COMBINED CYCLE GAS TURBINES	2,110	528	USE OF PIPELINE QUALITY NAT GAS AND PROPER SCR DESIGN	0.00088
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	RICHMOND, TX	12/31/2002	?	(4) HRSG/TURBINES 001,002, 003 & 004	1,400	350	FIRING PIPELINE QUALITY NATURAL GAS	0.00093
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	?	(4) COMBINED CYCLE TURBINES	2,000	1000	CLEAN FUELS	0.00100
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	TURBINE/HRSG NO.1, 2 & 3	3,168	396	NAT GAS	0.00104
PASADENA 2 POWER FACILITY	TEXAS	9/30/1998	?	TURBINE/HRSG (CG-2) & (CG-3)	1,280	160	PROPER COMBUSTION CONTROL & LOW S FUELS	0.00106
DICKERSON	MONTGOMERY,MD	11/5/2004	?	UNIT 4 -GE FRAME 7F COMB. TURBINES W/HRSG - NG CC	1,568	196	NONE LISTED	0.00108
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	460	LOW-SULFUR FUELS	0.00109
TENASKA ALABAMA GENERATING STATION	BILLINGSLY, AL	11/29/1999	YES	(3) TURBINE & DUCT BURNER	1,360	510	INHERENTLY LIMITED BY LOW SULFUR IN FUEL	0.00110
BARTON SHOALS ENERGY	ENGLEWOOD	7/12/2002	?	(4) COMBINED CYCLE COMBUSTION TURBINE UNITS W/ DB	1,384	692	NATURAL GAS ONLY	0.00110
EL PASO MERCHANT ENERGY CO.	HOUSTON	6/24/2002	?	(2) TURBINE, COMBINED CYCLE DUCT BURNER	2,062	516	USE OF LOW SULFUR FUEL	0.00111
CPV GULFCOAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,700	213	NATURAL GAS < 0.0065 %S	0.00118
ENNIS TRACTEBEL POWER	TEXAS	1/31/2003	NO	(2) COMBUSTION TURBINE/HRSG STACKS	1,840	940	NONE INDICATED	0.00118
CPV CUNNINGHAM CREEK	SILVER SPRING, VA	9/6/2002	NO	(2) TURBINE, COMBINED CYCLE	2,132	533	GOOD COMBUSTION PRACTICES	0.00120
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	?	(4) TURBINES COMBINED CYCLE DUCT BURNERS ON	1,376	688	NONE LISTED	0.00122
					1,376	688	NONE LISTED	0.00160
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	YES	(2) TURBINE COMBINED CYCLE NO DUCT FIRING	1,360	340	NONE LISTED	0.00125
				(2) TURBINE COMBINED CYCLE DUCT FIRING	1,360	340	NONE LISTED	0.00162
MIRANT WYANDOTTE LLC	WYANDOTTE, MI	1/28/2003	YES	(2) TURBINE, COMBINED CYCLE W/ DB, POWER AUG.	2,200	550	USE OF NATURAL GAS. LOW SULFUR FUEL	0.00128
SATSOP COMBUSTION TURBINE PROJECT"		1/2/2003	NO	(2) COMBINED CYCLE COMBUSTION TURBINES	1,671	418	NONE LISTED	0.00130
LAWRENCE ENERGY	OHIO	9/24/2002	YES	(3) TURBINES, COMBINED CYCLE W/ & W/O DB	1,440	540	NONE LISTED	0.00130

Appendix G

Woodbridge Energy Center

Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW

Sulfuric Acid Mist Emissions

FACILITY	LOCATION	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	THROUGHPUT MW (TOTAL)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)
MANTUA CREEK GENERATING FACILITY		6/26/2001	?	(3) COMBUSTION TURBINE W/O DUCT BURNER	2,181	818	NONE	0.00138
				(3) COMBUSTION TURBINE W/ DUCT BURNER	2,181	818	NONE	0.00156
				(3) COMBUSTION TURBINE W/O DB 75%LOAD	1,636	613	NONE	0.00150
				(3) COMBUSTION TURBINE W/O DB 60% LOAD	1,309	491	NONE	0.00160
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	?	(4) COMBUSTION TURBINE COMBINED CYCLE	2,010	1005	THE USE OF NATURAL GAS ONLY	0.00139
PANDA-BRANDYWINE	MARYLAND	6/17/1994	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	496	NONE LISTED	0.00151
RIO NOGALES POWER PROJECT	TEXAS	12/3/1999	?	(3) TURBINES/HRSG 1-3 CTG1-3	2,133	800	FIRING NAT GAS	0.00155
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	NO	(2) GAS TURBINES GFRAME W/HRSG NORMAL OP EC-ST1&2	3,228	807	NONE INDICATED	0.00158
TENASKA TALLADEGA GENERATING STATION	OMAHA	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/ DUCT FIRING	1,360	1020	PIPELINE QUALITY NATURAL GAS	0.00170
BP CHERRY POINT COGENERATION	WHATCOM CO., WA	3/1/2004	NO	(3) COMBINED CYCLE COMBUSTION TURBINE	1,614	605	NATURAL GAS FUEL	0.00173
KALKASKA GENERATING, INC	RAPID RIVER TWP, MI	2/4/2003	?	(2) TURBINE, COMBINED CYCLE, WITH DUCT BURNER	2,420	605	USE OF LOW SULFUR FUEL	0.00186
BERRIEN ENERGY, LLC	BENTON HARBOR, MI	10/10/2002	?	(3) TURBINE, COMBINED CYCLE AND DUCT BURNER	2,300	863	USE OF PIPELINE QUALITY GAS	0.00187
FREMONT ENERGY CENTER, LLC	BOSTON	8/9/2001	YES	(2) COMBUSTION TURBINES W/O DUCT BURNER	1,440	360	NONE LISTED	0.00188
				(2) COMBUSTION TURBINES W/ DUCT BURNER				0.00257
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	?	(1) COMBINED CYCLE COMBUSTION TURBINE W & W/O DB	1,779	222	CLEAN FUELS	0.00220
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	?	(4) GAS TURBINES TURBINE ONLY FIRING	1,360	680	USE OF PIPELINE QUALITY LOW-SULFUR NATURAL GAS	0.00206
				(4) GAS TURBINES WITH HRSG (COMBINED FIRING)	1,384	692	USE OF PIPELINE QUALITY LOW-SULFUR CONTENT NATURAL GAS	0.00023
HAYWOOD ENERGY CENTER, LLC	TAMPA	2/1/2002	?	TURBINE, COMBINED CYCLE W/ & W/O DUCT FIRING	1,990	249	LOW SULFUR FUEL (<2.0 GR SULFUR PER 100 SCF OF NAT GAS)	0.00231
BAYTOWN COGENERATION PLANT	TEXAS	2/11/2000	?	(3) TURBINE/HRSGS CTG1-3	2,000	750	USE OF LOW SULFUR CONTENT FUELS	0.00240
FPL ENERGY MARCUS HOOK, L.P.	JUNO BEACH, FL	5/4/2003	?	(3) TURBINE, COMBINED CYCLE	1,798	674	LOW SULFUR FUEL	0.00240
				(3) TURBINE, COMBINED CYCLE W/ DUCT BURNER	2,191	821	LOW SULFUR FUEL	0.00300
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	?	(3) COMBINED CYCLE TURBINE	2,964	1112	NONE LISTED	0.00243
				(3) COMBINED CYCLE TURBINE W/ DUCT BURNER	3,202	1201	NONE	0.00244
				(2) TURBINE/HRSG CTG-1 & CTG-2	1,920	480	NONE LISTED	0.00292
MAGIC VALLEY GENERATION STATION FORNEY PLANT	HOUSTON, TX	3/6/2000	NO	(6) TURBINES	1,358	1019	FIRING LOW SULFUR PIPELINE NAT GAS	0.00297
				(6) COMBINED TURBINE & DUCT BURNER	1,358	1019	LOW SULFUR PIPELINE NAT GAS	0.03266
				(2) COMBINED CYCLE TURBINE	1,464	366	LOW SULFUR FUEL	0.00301
LOST PINES 1 POWER PLANT	AUSTIN, TX	9/30/1999	?	(4) CTG1-4 & HRSG1-4, ST-1 THRU -4	1,440	720	FIRING LOW-S FUELS	0.00340
DEER PARK ENERGY CENTER	HOUSTON	8/22/2001	?	(6) TURBINES, COMBINED CYCLE & HRSG	1,360	1020	NONE LISTED	0.00346
PALESTINE ENERGY FACILITY	PALESTINE, TX	12/13/2000	NO	(4) TURBINES, COMBINED CYCLE	1,372	686	LOW SULFUR FUEL	0.00350
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CITY"	8/16/2001	?	(3) COMBUSTION TURBINES & DB (1), (2), (3)	1,360	510	FIRING NAT GAS	0.00382
GATEWAY POWER PROJECT	TEXAS	3/20/2000	?	GAS TURBINES - 187 MW (2)	2,006	251	USE OF LOW SULFUR NATURAL GAS, 1.8 GRAINS PER 100 SCF	0.00424
FLORIDA MUNICIPAL POWER AGENCY (FMPA	OSCEOLA, FL	9/8/2008	?	300 MW COMBINED CYCLE COMBUSTION TURBINE	1,860	233	FUEL SPECIFICATIONS	0.00429
DUKE ENERGY HANGING ROCK ENERGY FACILITY	LAWRENCE,OH	12/28/2004	?	TURBINES (4) (MODEL GE 7FA) DUCT BURNERS OFF	344	172	NONE LISTED	0.00488
BLUEWATER ENERGY CENTER LLC	MICHIGAN	1/7/2003	?	(3) TURBINE, COMBINED CYCLE WITH DUCT BURNER	1,440	540	EXCLUSIVE USE OF NATURAL GAS	0.00569
SWEENY COGENERATION FACILITY	DALLAS, TX	9/30/1998	NO	(4) GAS TURBINE/HRSG 1-4, EPN1-4	970	485	FUEL SULFUR AND H2S CONTENT LIMITS	0.00608
INEOS CHOCOLATE BAYOU FACILITY	BRAZORIA,TX	8/29/2006	?	COGEN TRAIN 2 AND 3 (TURBINE & DB)	280	35	NATURAL GAS & COMPLEX GAS W/ MAX S CONTENT 5GR/100SCF	0.00693
CHOCOLATE BAYOU PLANT	ALVIN, TX	3/24/2003	NO	(2) COMBUSTION TURBINE W/ DUCT BURNER	280	70	LOW SULFUR FUEL	0.00693
GPC - GOAT ROCK COMBINED CYCLE PLANT	SMITHS, AL	4/10/2000	YES	(6) COMBINED CYCLE ELECTRIC GENERATING UNITS	1,384	1038	NATURAL GAS ONLY	0.00900
(PCLP)	MAYS LANDING, NJ	9/19/1995	?	COMBUSTION TURBINE, W/O DUCT BURNER	908	114	N/A	0.01000
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	TURBINES, COMBINED CYCLE	1,280	160	LOW SULFUR FUELS	0.01746
GULF STATES UTILITIES COMPANY - LOUISIANA STA	BATON ROUGE, LA	2/7/1996	?	NO.4 TURBINE/HRSG	1,573	197	NONE LISTED	0.04406

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7.8.9 CT7,(8),(9)	360	SCR AND GOOD COMBUSTION	5.0	BACT-PSD
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	YES	SIEMENS SGT6-5000F CTGS W/ DB	2,205	WATER INJECTION AND SCR	5.9	LAER
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,877	LNB, WATER INJECTION AND SCR	5.9	BACT
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3	2,276	LNB, WATER INJECTION AND SCR	5.9	BACT
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, ABB GT-24 #1 WITH 2 CHILLERS	2,078	SCR WITH AMMONIA INJECTION	5.9	LAER
CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK, NY	5/10/2006	YES	COMBUSTION TURBINE	2,221	SCR	6.0	BACT-PSD
FAIRBAULT ENERGY PARK	RICE, MN	7/15/2004	?	TURBINE, COMBINED CYCLE DISTILLATE OIL (1)	1,801	SCR AND WATER INJECTION.	6.0	BACT-PSD
CAITHNES BELLPORT ENERGY CENTER	SUFFOLK, NY	5/10/2006	?	COMBUSTION TURBINE	2,125	SCR	6.0	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	YES	(2) MH 501G COMBUSTION TURBINE	2,734	SCR	6.0	BACT
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,801	SCR AND WATER INJECTION	6.0	BACT-PSD
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	SCR AND DLN	6.0	LAER
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	SCR	6.0	LAER
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE	1,360	WATER INJECTION SCR	6.0	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE	10/19/2001	?	(2) TURBINE, COMBINED CYCLE	1,707	LNB, SCR	6.0	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,074	SCR AND CEMS	6.0	BACT-PSD
JAMES CITY ENERGY PARK	WELLESLEY, MA	12/1/2003	NO	TURBINE, COMBINED CYCLE	2,167	DLN BURNERS, SCR WITH AMMONIA INJ	6.0	BACT-PSD
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	SCR, OIL LIMITED < 1400 HR/YR. PRIM FUEL NAT GAS	6.0	BACT-OTHER
AECI-DELL	MISSISSIPPI, AR	3/31/2010	NO	COMBUSTION TURBINE	2,112	SCR, OIL LIMITED TO < 1850 HRS/YR	6.4	BACT
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	STEAM INJECTION AND SCR	8.0	LAER
FP&L TURKEY POINT FOSSIL PLANT - UNIT 5	HOMESTEAD, FL	6/1/2004	NO	(4) COMBUSTION TURBINE	1,830	SCR WITH DLN	8.0	BACT-OTHER
FORSYTH ENERGY PLANT	FORSYTH, NC	9/29/2005	?	TURBINE, COMBINED CYCLE FUEL OIL (3)	2,003	DLN COMBUSTORS AND WATER INJECTION.	8.0	BACT-PSD
BLUE MOUNTAIN POWER, LP	RICHLAND, PA	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,440	DRY LNB WITH SCR AND WATER INJECTION	8.4	LAER
ATHENS GENERATING PLANT	GREENE, NY	1/19/2007	NO	FUEL COMBUSTION (OIL)	2,940	DLN, OIL OPERATION LIMITED TO 1080 HRS/YR. STEAM (OR WATER INJ) DURING OIL FIRING	9.0	LAER
EMPIRE POWER PLANT	RENSSELAER, NY	6/23/2005	?	FUEL COMBUSTION (DISTILLATE OIL)	2,099	WATER INJ WITH SCR SYSTEM	9.0	LAER
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	DLN AND SCR	9.0	OTHER
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	DLN AND SCR, 1,080 HR/YR	9.0	LAER
CON ED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	SCR AND DLN, OPERATES 16 HR/YR ON OIL	9.0	LAER
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	1,680	SCR	9.0	LAER
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 AND #2	2,834	LNB WITH WATER INJECTION AND SCR	9.0	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	WATER	9.0	BACT-OTHER
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGEN	1,844	STEAM/WATER INJECTION AND SCR	9.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) EMERGENCY TURBINES USING FUEL OIL, STACK 1-4	2,200	SCR, DLN BURNERS	9.0	BACT-PSD
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	LNB, SCR	9.0	BACT-PSD
PCLP	MAYS LANDING, NJ	9/19/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902	SCR, WATER INJECTION	9.0	BACT-PSD
				(2) TURBINE WITH DUCT BURNER	1,046		23.0	
NYP&A POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	DLN AND SCR	10.0	LAER
CPV GULF COAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,918	SCR	10.0	BACT-PSD
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE NOMINAL 245 MW	1,700	SCR, DRY LOW NOX (DLN 2.6)	10.0	BACT-PSD
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,898	DLN, SCR, WET INJECTION	10.0	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,898	SCR, DLN, WET INJECTION	10.0	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,811	WATER INJECTION WITH SCR	10.0	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	SCR AND WET INJECTION	10.0	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	WATER INJECTION AND SCR	10.0	BACT-PSD
FAIRLESS WORKS ENERGY CTR (FMR, SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	DLN BURNERS, SCR	10.0	LAER
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE CT UNITS	1,360	WATER INJECTION + SCR	12.0	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE	1,480	SCR	12.0	BACT-PSD
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	WATER INJECTION AND SCR	12.0	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, AR	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/DUCT FIRING	1,360	WATER INJECTION W/ SCR	12.5	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE	2,003	DLN COMBUSTORS AND USE OF WATER INJECTION	13.0	BACT-PSD
CAROLINA POWER AND LIGHT - RICHMOND CO. FACILITY	RALEIGH, NC	12/21/2000	?	(2) TURBINE, COMBINED CYCLE	1,819	WATER INJECTION AND SCR	13.0	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,875	WATER INJECTION AND SCR	13.0	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,940	WATER INJECTION AND SCR	13.0	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	DNLB AND SCR ON TURBINES, LNB ON DUCT BURNER	13.6	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	ADVANCED DLN TECHNOLOGY AND SCR	14.0	BACT-PSD
LAKELAND C.D. MCINTOSH POWER PLANT	LAKELAND, FL	1999	YES	(1) COMBINED CYCLE GAS TURBINE	2,236	SCR AND WATER INJECTION	15.0	BACT
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	DRY LNB STAGED COMBUSTION	15.0	BACT-PSD
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,696	WATER INJECTION, SCR	15.0	BACT-PSD
JEA/BRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	SCR & WATER INJECTION	15.0	BACT-PSD
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	COMBUSTION TURBINE #1	1,932	SCR	15.0	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	SCR WITH A NOX CEM AND A NOX PEM	16.0	BACT-PSD
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	?	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	WATER INJECTION, SCR	16.0	BACT-PSD
				TURBINE, COMBINED CYCLE W/O DUCT BURNER	2,166		42.0	
ASSOCIATED ELECTRIC COOPERATIVE, INC	MISSISSIPPI, AR	3/31/2010	?	COMBUSTION TURBINE #1 (SN-01) NO. 2 FUEL OIL SERVICE	2,112	SELECTIVE CATALYTIC REDUCTION	19.3	BACT
				COMBUSTION TURBINE #2 (SN-02) NO. 2 FUEL OIL	2,112	SELECTIVE CATALYTIC REDUCTION	19.3	BACT
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURN	1,374	SCR AND DLN BURNERS	21.8	BACT-PSD
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE	2,080	WATER INJECTION, SCR AND CEMS	22.0	LAER
PREPA	SAN JUAN, PR	4/1/2004	?	TURBINE, COMBINED CYCLE (2)	1,904	STEAM INJECTION	34.2	34.2 PPM @ 15% O2
PREPA SAN JUAN REPOWERING PROJECT	SAN JUAN, PR	11/1/2000	?	(2) SWPC 501F COMBUSTION TURBINES	1,694	STEAM INJECTION	34.2	BACT
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,283	SCR & DLN	36.1	BACT-OTHER
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464	DLN COMBUSTORS AND BURNERS	37.9	BACT-PSD
				(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464		42.0	
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1,2,3	3,168	DLN BURNERS	39.1	BACT-PSD
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	WATER INJECTION	42.0	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	WATER INJECTION	42.0	BACT-PSD
STAR ENTERPRISE	DELAWARE CITY, DE	3/30/1998	YES	(2) TURBINES, COMBINED CYCLE	827	STEAM INJECTION WHILE FIRING LSDF	42.0	LAER
FAIRBAULT ENERGY PARK	RICE, MN	7/15/2004	?	TURBINE, SIMPLE CYCLE DISTILLATE OIL (1)	1,576	WATER INJECTION	42.0	BACT-PSD
TECO-POLK POWER STATION/MULBERRY	TAMPA, FL	12/23/2002	YES	TURBINE, COMBINED CYCLE	1,765	WET INJECTION	42.0	BACT-PSD
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	DLN BURNERS VERSION 2.6 BY GE	42.0	BACT-OTHER
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	WATER INJECTION	42.0	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7,8,9 CT7,(8),(9)	360	SCR AND GOOD COMBUSTION	5.0	BACT-PSD
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	YES	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,121	DLN TECHNOLOGY AND WET INJECTION	42.0	BACT-PSD
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	WET INJECTION	42.0	BACT-PSD
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINE #1 & #2	1,127	DILUENT WI SYSTEM USING "QUIET COMBUSTOR" MULTI FUEL NOZZLE CAP; LNB DB	42.0	BACT-PSD
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE W/ DUCT BURNER	1,515	SCR	42.0	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	DLN BURNERS, WATER INJECTION	42.0	BACT-PSD
SANTEE COOPER RAINEY GEN. STA.	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINE, COMBINED CYCLE	1,360	WATER INJECTION	42.0	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE 1 SHORT-TERM	400	LNB	42.0	BACT-PSD
BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/25/1997	?	(3) TURBINE, EMISSION PTS AA-001,002,003 (75%-100% LOAD)	2,248	SCR	42.0	BACT-PSD
				(3) TURBINE, EMISSION PTS AA-001,002,003 (<75% LOAD)	2,248		75.0	
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	54.0	OTHER
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	STACK EMISSIONS (TURBINE @DIST OIL & DUCT BURNER)	610	WATER INJECTION	61.0	BACT-OTHER
				GAS TURBINE	500		65.0	
PONCA CITY MUNICIPAL ELEC. GEN.	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	94	WATER/STEAM INJECTION	65.0	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	(2) CASE III: TURBINES E-1,E-2	720	NONE INDICATED	65.0	NSPS
GOLDEN VALLEY ELEC ASSOC N. POLE POWER PLANT	FAIRBANKS, AK	3/22/2003	?	(2) COMBINED CYCLE COMBUSTION TURBINE	455	WATER INJECTION	67.9	OTHER
PRIME ENERGY	ELMWOOD PARK, NJ	8/29/2001	?	COGEN SYSTEM(COMBUSTION & STEAM TURBINE/GENERATOR)	715	WATER INJECTION	75.0	OTHER
SC ELECTRIC AND GAS COMPANY - URQUHART STATION	COLUMBIA, SC	9/22/2000	?	(2) TURBINES COMBINED CYCLE	1,795	CEM, WATER INJECTION AND GCP	97.0	BACT-PSD

SCR = SELECTIVE CATALYTIC REDUCTION, GCP = GOOD COMBUSTION PRACTICES, CEMS, CONTINUOUS EMISSION MONITOR, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	YES	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2 (OIL FIRED) WITH 445 MMBTU/HR NATURAL GAS DUCT BURNER	2,117		1.5	
CAITHNESS BELLPORT ENERGY CTR	SUFFOLK, NY	5/10/2006	YES	COMBUSTION TURBINE	2,221	OXIDATION CATALYST	2.0	BACT-PSD
				COMBUSTION TURBINE NO DB	2,125		2.0	
DICKERSON	MONTGOMERY, MD	11/5/2004	?	UNIT 5 -GE FRAME 7F COMB. TURBINES W/ HRSG- FO CC	1,568	OXIDATION CATALYST	2.0	BACT-PSD
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE	1,360	CATALYTIC OXIDATION	2.0	BACT-PSD
DICKERSON	MONTGOMERY, MD	11/5/2004	?	UNIT 4 -GE FRAME 7F COMB. TURBINES W/ HRSG- FO CC	1,568	OXIDATION CATALYST	2.4	BACT-PSD
CONED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	OXIDATION CAT, OPERATES 16 HR/YR ON OIL	4.0	LAER
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	OXIDATION CATALYST	4.0	LAER
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	OXIDATION CATALYST	4.0	BACT
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3 (100% LOAD)	2,276	OXIDATION CATALYST	4.0	BACT
				(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3 (75% LOAD)	2,276		5.0	
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, COMBUSTION ABB GT-24 #1&2 WITH 2 CHILLERS	2,078	OXIDATION CATALYST	4.4	BACT-PSD
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,877	OXIDATION CATALYST	5.0	BACT
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	OXIDATION CATALYST	5.0	OTHER
NYP&A POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	OXIDATION CATALYST	5.0	LAER
GARNET ENERGY, MIDDLETON FACILITY	BOISE	10/19/2001	?	(2) TURBINE, COMBINED CYCLE	1,707	OXIDATION CATALYST, GCP	6.0	BACT-PSD
JAMES CITY ENERGY PARK	WELLESLEY, MA	12/1/2003	NO	TURBINE, COMBINED CYCLE	2,167	GCP	6.0	BACT-PSD
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	OXIDATION CATALYST	6.0	BACT-OTHER
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	OXIDATION CATALYST	6.0	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,734	OXIDATION CATALYST	7.0	BACT
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,283	CATALYTIC OXIDATION	7.8	BACT-OTHER
FP&L TURKEY POINT FOSSIL PLANT - UNIT 5	HOMESTEAD, FL	6/1/2004	NO	(4) COMBUSTION TURBINE	1,830	GCP	8.0	BACT-OTHER
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	CATALYTIC OXIDATION SYSTEM	8.0	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	CATALYTIC OXIDIZER	8.0	BACT-PSD
SOUTHERN COMPANY/GEORGIA POWER	COBB, GA		?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	9.0	BACT
			?	AUXILIARY BOILERS	200	NONE INDICATED	16.5	BACT
		1/7/2008	?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	1.8	BACT
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	CO CATALYST AND EFFICIENT COMB TECHNIQUES	9.6	BACT
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,801	GCP	10.0	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	1,680	0.05% SULFUR DISTILLATE OIL #2 IS USED	10.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/21/1998	YES	(4) EMERGENCY COMBINED CYCLE GAS TURBINE STACK1-4	1,400	GCP	10.0	BACT-PSD
FAIRBAULT ENERGY PARK	RICE, MN	7/15/2004	?	TURBINE, COMBINED CYCLE	1,801	GOOD COMBUSTION PRACTICES.	10.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) EMERGENCY TURBINES USING FUEL OIL, STACK 1-4	2,200	GCP	10.0	BACT-PSD
GOLDEN VALLEY ELEC ASSN - N POLE POWER PLANT	FAIRBANKS, AK	3/22/2003	?	(2) COMBINED CYCLE COMBUSTION TURBINE	455	OXIDATION CATALYST	10.8	OTHER
COLETO CREEK	GOLIAD, TX	10/31/2005	?	UNIT 1	1,844	GCP AND EFFICIENT PROCESS DESIGN.	11.6	BACT-PSD
JEA/BRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	GOOD COMBUSTION	14.2	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,811	GOOD COMBUSTION DESIGN AND PRACTICES	14.4	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	CASE III: TURBINE E-1	720	NONE INDICATED	15.0	OTHER
TECO BAYSIDE POWER STATION	TAMPA, FL	3/30/2001	YES	(7) TURBINE, COMBINED CYCLE	1,360	GCP AND DESIGN	15.0	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	NONE INDICATED	15.0	BACT-OTHER
FAIRLESS WORKS ENERGY CENTER	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	OXIDATION CATALYST	15.0	LAER
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7.8,9 CT7,(8),(9)	360	OXIDATION CATALYST	15.0	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,074	NONE INDICATED	15.6	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE	2,003	EFFICIENT COMBUSTION PROCESS DESIGN	15.7	BACT-PSD
				(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,003		25.1	
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	CASE III: TURBINE E-2	720	NONE INDICATED	15.7	OTHER
FORSYTH ENERGY PLANT	FORSYTH, NC	9/29/2005	?	TURBINE, COMBINED CYCLE FUEL OIL (3)	2,003	EFFICIENT COMBUSTION PROCESS DESIGN.	15.7	BACT-PSD
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	16.0	OTHER
BLUE MOUNTAIN POWER, LP	RICHLAND, PA	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,440	OXIDATION CATALYST	16.0	LAER
				COMBUSTION TURBINE W/ HEAT RECOVERY BOILER (<75%LOAD)	1,440		31.4	
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,875	COMBUSTION CONTROL	16.5	BACT-PSD
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE	2,080	NONE INDICATED	16.9	BACT-PSD
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,898	COMBUSTION CONTROLS	17.0	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,898	COMBUSTION CONTROLS	17.0	BACT-PSD
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	GOOD COMBUSTION	20.0	BACT-PSD
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	YES	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,121	GCP	20.0	BACT-PSD
CPV GULF COAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,918	COMBUSTION CONTROLS	20.0	BACT-PSD
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE NOMINAL 245 MW	1,700	COMBUSTION CONTROLS	20.0	BACT-PSD
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	COMBUSTION DESIGN	20.0	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	COMBUSTION DESIGN, GCP	20.0	BACT-PSD
CAROLINA POWER AND LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINE, COMBINED CYCLE	1,819	COMBUSTION CONTROL	20.0	BACT-PSD
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	COMBUSTION TURBINE #1	1,932	NONE INDICATED	20.0	BACT-PSD
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES COMBINED CYCLE	1,795	COMBUSTION CONTROLS	20.0	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE (100% LOAD)	1,940	COMBUSTION CONTROL	20.0	BACT-PSD
				(2) TURBINE, COMBINED CYCLE (85% LOAD)	1,940		22.0	
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE	1,696	GCP	20.0	BACT-PSD
				TURBINE, COMBINED CYCLE DUCT BURNER	1,696		30.0	
DICKERSON	MONTGOMERY, MD	11/5/2004	?	UNIT 5 -GE FRAME 7F COMB. TURBINES W/ HRSG- FO SC	1,568	OXIDATION CATALYST	20.6	BACT-PSD
				UNIT 4 -GE FRAME 7F COMB. TURBINES W/ HRSG- FO SC	1,568	OXIDATION CATALYST	24.3	
PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	GOOD COMBUSTION	24.3	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	GCP	24.3	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	DRY LNB, GCP	25.0	BACT-PSD
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINE #1 & #2	1,127	DILUENT W/ USING "QUIET COMBUSTOR" MULTI FUEL NOZZLE CAP, LNB DB	25.0	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
PREPA SAN JUAN REPOWERING PROJECT	SAN JUAN, PR	11/1/2000	?	(2) SWPC 501F COMBUSTION TURBINES (100% LOAD)	1,694	NONE INDICATED	25.0	BACT
				(2) SWPC 501F COMBUSTION TURBINES (60%-100% LOAD)	1,694		60.0	
FORSYTH ENERGY PLANT	FORSYTH, NC	9/29/2005	?	TURBINE & DUCT BURNER COMBINED CYCLE FUEL OIL 3	2,003	EFFICIENT COMBUSTION PROCESS DESIGN	25.1	BACT-PSD
(PCLP)	MAYS LANDING, NJ	9/19/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902	NONE INDICATED	25.2	BACT-PSD
				(2) TURBINE WITH DUCT BURNER	1,046		34.0	
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1,2,3	3,168	GOOD COMBUSTION	25.8	BACT-PSD
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464	GCP	25.9	BACT-PSD
				(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464		27.0	
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE W/ DUCT BURNER	1,515	OXIDATION CATALYST	27.0	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	EFFICIENT COMBUSTION	27.7	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	COMBUSTION DESIGN, GCP	30.0	BACT-PSD
BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/25/1997	?	(3) TURBINE, EMISSION POINT AA-001,002,003 (75%-100% LOAD)	2,248	NONE INDICATED	36.0	BACT-PSD
				(3) TURBINE, EMISSION POINT AA-001,002,003 (<75% LOAD)	1,686		150.0	
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	GCP, CLEAN BURNING FUELS	37.0	BACT-PSD
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURN	1,374	NONE INDICATED	38.0	BACT-PSD
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE CT UNITS	1,360	EFFICIENT COMBUSTION	39.7	BACT-PSD
TECO-POLK POWER STATION/MULBERRY	TAMPA, FL	12/23/2002	YES	TURBINE, COMBINED CYCLE	1,765	GOOD COMBUSTION	40.0	BACT-PSD
SANTEE COOPER RAINEY GENERATION STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINE, COMBINED CYCLE	1,360	COMBUSTION TECHNOLOGY AND CLEAN FUELS	40.0	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE (100% LOAD)	1,480	GCP	40.0	BACT-PSD
				TURBINE, COMBINED CYCLE (<75% LOAD)	1,480		300.0	
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	?	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	GCP AND COMBUSTION CONTROLS	42.0	BACT-PSD
				TURBINE, COMBINED CYCLE W/O DUCT BURNER	2,166		90.0	
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 AND #2	2,834	LNB & GCP	50.0	BACT-PSD
PRIME ENERGY	ELMWOOD PARK, NJ	8/29/2001	?	COGEN SYSTEM(COMBUSTION & STEAM TURBINE/GENERATOR)	715	WATER INJECTION	50.0	OTHER
ATHEN GENERATING CO, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	CLEAN BURNING FUELS AND EFFICIENT COMBUSTION	50.0	BACT
				(3) SWPC 510G COMBUSTION TURBINES (75% LOAD)	2,880	TECHNIQUES, 1,080 HR/YR	92.0	
PREPA	SAN JUAN, PR	4/1/2004	?	TURBINE, COMBINED CYCLE (2)	1,904		60.0	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION TECHNOLOGY, CLEAN FUELS	83.8	BACT-PSD
THOMAS B. FITZHUGH GENERATING STATION	OZARK, AR	2/15/2002	YES	TURBINE, COMBINED CYCLE, SWPC 501D5A	1,365	GCP	90.0	BACT-PSD
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	GOOD COMBUSTION OF CLEAN FUELS	90.0	BACT-OTHER
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	MOSELL, MS	4/9/1996	YES	COMBUSTION TURBINE COMBINED CYCLE	1,547	GOOD COMBUSTION CONTROLS	90.0	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE 1 SHORT-TERM	400	LNB	90.0	BACT-PSD
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	GAS TURBINE	500	NONE INDICATED	97.0	BACT-OTHER
				STACK EMISSIONS (TURBINE @DIST OIL & DUCT BURNER)	610		123.0	
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	COMBUSTION CONTROLS	100.0	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, AL	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/DUCT FIRING	1,360	EFFICIENT COMBUSTION	156.1	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	94	TURBINE DESIGN	975.3	BACT-PSD

GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	GOOD COMBUSTION. CLEAN FUELS	1.6	BACT-OTHER
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	2.0	OTHER
CONED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	NO	(2) COMBUSTION TURBINES, W/O DUCT BURNER	2,054	OXIDATION CATALYST, OPERATES 16 HR/YR ON OIL	2.0	LAER
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE	1,360	CATALYTIC OXIDATION	2.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/2/1998	YES	(4) EMERGENCY COMBINED CYCLE GAS TURBINE STACK1-4	1,400	GOOD COMBUSTION DESIGN AND OPERATIONS	2.0	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) EMERGENCY TURBINES USING FUEL OIL, STACK 1-4	2,200	GOOD COMBUSTION DESIGN AND OPERATIONS	2.0	BACT-PSD
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7,8,9 CT7,(8),(9)	360	GCP	2.2	BACT-OTHER
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,811	GCP	2.5	BACT-PSD
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE	2,080	GOOD AIR POLLUTION CONTROL PRACTICES	2.6	BACT-PSD
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,877	OXIDATION CATALYST FOR CO	2.9	BACT
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	GCP	2.9	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,074	NONE INDICATED	2.9	BACT-PSD
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/O DUCT BURNER	1,464	GOOD COMBUSTION DESIGN AND OPERATIONS	2.9	BACT-PSD
					1,464		8.5	
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	GCP	3.0	OTHER
NYP& POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	OXIDATION CATALYST	3.0	LAER
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	CO CATALYST AND EFFICIENT COMB TECHNIQUES	3.0	LAER
TECO BAYSIDE POWER STATION	TAMPA, FL	3/30/2001	YES	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION DESIGN AND OPER PRACTICES	3.0	BACT-PSD
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE	1,779	OXIDATION CATALYST	3.0	OTHER
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINE #1 & #2, W/ HRSG	1,127	EFFECTIVE COMBUSTION OF FUELS	3.1	BACT-PSD
					1,127		7.3	
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,283	CATALYTIC OXIDATION	3.1	BACT-OTHER
PEDRICKTOWN COGENERATION PLANT (PCLP)	MAYS LANDING, NJ	9/19/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902	NONE INDICATED	3.3	BACT-PSD
					1,046		7.5	
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	COMBUSTION DESIGN	3.5	BACT-OTHER
CAROLINA POWER AND LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINE, COMBINED CYCLE	1,819	COMBUSTION CONTROL	3.5	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,875	COMBUSTION CONTROL	3.5	BACT-PSD
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES COMBINED CYCLE	1,795	COMBUSTION CONTROLS	3.5	BACT-PSD
JAMES CITY ENERGY PARK	WELLESLEY, MA	12/1/2003	NO	TURBINE, COMBINED CYCLE	2,167	GOOD COMBUSTION/DESIGN AND CLEAN FUELS	3.5	BACT-PSD
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SGT6-500F TURBINE #1 AND #2 W/ 445 MMBTU/HR DB	2,117	CO CATALYST	3.6	BACT-PSD
CPV GULF COAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,918	COMBUSTION CONTROLS	3.6	BACT-OTHER
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE COMBUSTION TURBINE NOMINAL 245 MW	1,700	GCP	3.6	BACT-OTHER
SOUTHERN COMPANY/GEORGIA POWER	COBB, GA		?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	4.0	BACT
			?	AUXILIARY BOILERS	200	NONE INDICATED	4.0	BACT
		1/7/2008	?	COMBINED CYCLE COMBUSTION TURBINE	2,032	OXIDATION CATALYST	1.8	BACT
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	GCP, CLEAN BURNING FUEL	4.3	BACT-PSD
BLUE MOUNTAIN POWER, LP	RICHLAND, PA	7/31/1996	YES	COMBUSTION TURBINE W/ HEAT RECOVERY BOILER	1,440	OXIDATION CATALYST	4.4	LAER
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURN	1,374	NONE INDICATED	4.5	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	GOOD COMBUSTION TECHNOLOGY, CLEAN FUELS	4.6	BACT-PSD
SANTEC COOPER RAINEY GENERATION STATION	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINE, COMBINED CYCLE	1,360	COMBUSTION TECHNOLOGY, CLEAN FUELS	4.6	BACT-PSD
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	CATALYTIC OXIDATION	4.9	BACT-PSD
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,801	GCP	5.0	BACT-PSD
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2)ABB GT-24 #1&2 W/ 2 CHILLERS (75-100% LOAD, 60-104°F)	2,078	OXIDATION CATALYST FOR CO	5.4	BACT
				(2) ABB GT-24 #1&2 W/2 CHILLERS (75-100% LOAD, 0-59°F)	2,078		5.9	
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	OXIDATION CATALYST	5.5	LAER
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	OXIDATION CATALYST	5.6	LAER
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	NONE INDICATED	5.6	BACT-PSD
FORSYTH ENERGY PROJECTS, LLC	FORSYTH, NC	9/29/2005	YES	(3) CTGS, EACH WITH HRSG & NATL GAS-FIRED DB	2,003	EFFICIENT COMBUSTION DESIGN	6.0	BACT-PSD
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3	2,276	OXIDATION CATALYST FOR CO	6.0	BACT
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,003	EFFICIENT COMBUSTION DESIGN	6.0	BACT-PSD
TRANS GAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	OXIDATION CATALYST	6.0	LAER
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	CLEAN FUELS AND GCP	6.0	BACT-PSD
PREPA SAN JUAN REPOWERING PROJECT	SAN JUAN, PR	11/1/2000	?	(2) SWPC 501F COMBUSTION TURBINES (100% LOAD)	1,694	NONE INDICATED	6.2	BACT
				(2) SWPC 501F COMBUSTION TURBINES (60%-100% LOAD)	1,694		10.0	
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	1,680	0.05% SULFUR DISTILLATE OIL #2 IS USED	6.6	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	NATURAL GAS COMBUSTION	6.9	BACT-PSD
SITHE EDGAR DEV., LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,734	OXIDATION CATALYST	7.0	BACT
FPL SANFORD PLANT	DEBARY, FL	9/14/1999	YES	(4) COMBUSTION TURBINES COMBINED CYCLE	1,776	GCP	7.0	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,940	COMBUSTION CONTROL	7.0	BACT-PSD
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 AND #2	2,834	GCP	7.4	SIP
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	(2) CASE III: TURBINES E-1,E-2	720	NONE INDICATED	7.6	OTHER
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE COGENERATION	1,844	COMBUSTION CONTROL	8.0	BACT-PSD
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1,2,3	3,168	GOOD COMBUSTION AND DESIGN	8.5	OTHER
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE 1 SHORT-TERM	400	NONE INDICATED	8.6	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE	10/19/2001	?	(2) TURBINE, COMBINED CYCLE	1,707	GCP	9.2	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	EFFICIENT COMBUSTION	9.4	BACT-PSD
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,696	GOOD COMBUSTION	10.0	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	WATER INJECTION AND SCR	10.0	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	CATALYTIC OXIDATION SYSTEM	10.0	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	COMBUSTION DESIGN, GCP	10.0	BACT-PSD
EMPIRE GENERATING CO. LLC	RENSSELAER, NY	6/23/2005	NO	FUEL COMBUSTION (DISTILLATE OIL) DUCT BURNING	646	OXIDATION CATALYST	12.0	LAER
				FUEL COMBUSTION (DISTILLATE OIL)	2,099	OXIDATION CATALYST	2.0	LAER
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	NO	TURBINE, COMBINED CYCLE W/O DUCT BURNER	2,166	GCP AND COMBUSTION CONTROL	12.2	BACT-PSD
					2,516		17.9	
NEW ATHENS GENERATING CO. LLC	GREENE, NY	1/19/2007	NO	(3) 501G TURBINES (245 MW), HRSGS, & STGS (115 MW)	2,940	GOOD COMBUSTION CONTROL	13.0	LAER

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Volatile Organic Compound Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (PPM)	PERMIT LIMIT BASIS
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	GOOD COMBUSTION. CLEAN FUELS	1.6	BACT-OTHER
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	EFFICIENT COMB TECHNIQUES, 1,080 HR/YR	13.0	LAER
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE CT UNITS	1,360	EFFICIENT COMBUSTION	13.3	BACT-PSD
BATESVILLE GENERATION FACILITY	MISSISSIPPI	11/25/1997	?	(3) TURBINE, EMISSION POINT AA-001,002,003 (100% LOAD)	2,248	NONE INDICATED	15.0	BACT-PSD
					2,248		100.0	
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	GAS TURBINE	500	NONE INDICATED	15.6	BACT-OTHER
					610		40.6	
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE (75%-100% LOAD)	1,480	GCP	16.0	BACT-PSD
					1,480		32.0	
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE W/ DUCT BURNER	1,515	GCP	20.3	BACT-PSD
TECO-POLK POWER STATION/MULBERRY	TAMPA, FL	12/23/2002	YES	TURBINE, COMBINED CYCLE	1,765	GOOD COMBUSTION	21.8	BACT-PSD
PRIME ENERGY	ELMWOOD PARK, NJ	8/29/2001	?	COGEN SYSTEM(COMBUSTION & STEAM TURBINE/GENERATOR)	715	WATER INJECTION	26.2	OTHER
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CENTER	PINE BLUFF, AR	5/5/1999	YES	TURBINE, COMBINED CYCLE	1,360	GCP	28.9	BACT-PSD
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	MOSELL, MS	4/9/1996	YES	COMBUSTION TURBINE COMBINED CYCLE	1,547	GOOD COMBUSTION CONTROLS	30.0	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, AR	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/DUCT FIRING	1,360	EFFICIENT COMBUSTION	30.4	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	94	TURBINE DESIGN	252.8	BACT-PSD

SCR = SELECTIVE CATALYTIC REDUCTION, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Particulate Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	EMISSION LIMIT CALC BASIS
PCLP	MAYS LANDING, NJ	9/9/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902.1	NONE INDICATED	0.0050	BACT
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	GOOD COMB & CLEAN FUELS, OIL USE LIMITED TO < 1400 HR/YR, PRIMARY FUEL NAT GAS	0.0073	BACT
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	0.0076	BACT
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	GCP, CLEAN FUEL	0.0085	BACT
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	NONE INDICATED	0.0088	BACT
CITY OF GAINESVILLE REGIONAL UTILITIES	GAINESVILLE, FL	2/24/2000	YES	ELECTRIC GENERATION TURBINE COMBINED CYCLE	1,121	CLEAN FUELS	0.0089	BACT
TECO-POLK POWER STATION/MULBERRY	TAMPA, FL	12/23/2002	YES	TURBINE, COMBINED CYCLE	1,765	GOOD COMBUSTION	0.0090	BACT
CAROLINA POWER AND LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINE, COMBINED CYCLE	1,819	COMBUSTION CONTROL	0.0090	BACT
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,875	COMBUSTION CONTROL	0.0090	BACT
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,074	USE OF DRIFT ELIMINATORS	0.0105	BACT
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	GOOD COMBUSTION	0.0109	BACT
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINE #1 & #2	1,127	S ULFUR CONTENT < 0.3% S BY WT	0.0133	BACT
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7.8,9 CT7,(8),(9)	360	LOW ASH FUEL OIL	0.0139	BACT
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	NO	(2) CASE III: TURBINES E-1,E-2	720	NONE INDICATED	0.0139	BACT
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO 1,2,3	3,168	NONE INDICATED	0.0157	BACT
MCINTOSH COMBINED-CYCLE FACILITY	RINCON, GA	4/17/2003	NO	(4) TURBINE, COMBINED CYCLE	1,360	LOW SULFUR FUEL	0.0160	BACT
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	COMBUSTION TURBINE #1	1,932	NONE INDICATED	0.0171	BACT
TENASKA TALLADEGA GENERATING STATION	OMAHA, AR	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/DB	1,360	EFFICIENT COMBUSTION	0.0185	BACT
CPV GULF COAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,918	COMBUSTION CONTROLS, LOW SULFUR FUELS	0.0188	BACT
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES COMBINED CYCLE	1,795	NONE INDICATED	0.0189	BACT
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,898	CLEAN FUELS AND GOOD COMBUSTION	0.0190	BACT
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,898	CLEAN FUELS, COMBUSTION CONTROLS AMMONIA SLIP < 5 PPMVD	0.0190	BACT
AES LONDON DERRY, LLC	LONDON DERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINES	2,834	LOW SULFUR FUELS	0.0200	BACT
FAIRLESS WORKS ENERGY CENTER	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	NONE INDICATED	0.0200	BACT
JAMES CITY ENERGY PARK	WELLESLEY, MA	12/1/2003	NO	TURBINE, COMBINED CYCLE	2,167	GOOD COMBUSTION/DESIGN AND CLEAN FUEL	0.0203	BACT
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/3/2001	?	COMBINED CYCLE CTG NOMINAL 245 MW	1,700	INHERENTLY CLEAN FUELS, COMBUSTION CONTROLS AMMONIA SLIP BELOW 5 PPMVD	0.0212	BACT
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,283	LOW ASH FUEL	0.0219	BACT
ASSOCIATED ELECTRIC COOPERATIVE, INC	MISSISSIPPI, MS	3/31/2010	?	COMBUSTION TURBINE #1 (SN-01) NO. 2 FUEL OIL SERVICE	2112	GOOD COMBUSTION	0.0232	BACT
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	COMBUSTION TURBINE #2 (SN-02) NO. 2 FUEL OIL	2112	GOOD COMBUSTION PRACTICES AND FUEL MONITORING	0.0235	BACT
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(2) TURBINE, COMBINED CYCLE	1,940	COMBUSTION CONTROL	0.0248	BACT
				(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,003	CLEAN-BURNING, LOW SULFUR FUELS (< 0.015% S), GCP	0.0248	BACT
				(3) TURBINE, COMBINED CYCLE	2,003	CLEAN-BURNING, LOW SULFUR FUELS (< 0.015% S), GOOD COMBUSTION PRACTICES.	0.0248	BACT
FORSYTH ENERGY PLANT	FORSYTH, NC	9/29/2005	?	TURBINE & DUCT BURNER COMBINED CYCLE	2003	NONE INDICATED	0.0248	BACT
DICKERSON	MONTGOMERY, MD	11/5/2004	?	UNIT 5 - GE FRAME 7F TURBINES W/ HRSG	1,568	NONE INDICATED	0.0255	BACT
VA POWER - POSSUM POINT	GLEN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE	2,080	NONE INDICATED	0.0261	BACT
DICKERSON	MONTGOMERY, MD	11/5/2004	?	UNIT 4 - GE FRAME 7F TURBINES W/ HRSG	1,568	NONE INDICATED	0.0269	BACT
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2 (OIL)	2,117	NONE INDICATED	0.0269	BACT
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE CT UNITS	1,360	CLEAN FUELS	0.0280	BACT
						GOOD COMBUSTION CLEAN FUEL: DISTILLATE OIL < 0.05% S BY WT	0.0295	BACT
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	CLEAN FUEL AND GOOD COMBUSTION PRACTICES.	0.0300	BACT
FAIRBULT ENERGY PARK	RICE, MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,801	CLEAN FUEL AND GCP	0.0300	BACT
				(2) TURBINE WITH DUCT BURNER	1,046.1		0.0300	BACT
GARNET ENERGY, MIDDLETON FACILITY	BOISE	10/19/2001	?	(2) TURBINE, COMBINED CYCLE	1,707	GCP	0.0307	BACT
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	?	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	GCP AND LOW SULFUR FUEL	0.0320	BACT
CON ED EAST RIVER REPOWERING PROJECT	NEW YORK, NY	8/30/2001	YES	TURBINE, COMBINED CYCLE W/O DUCT BURNER	2,166		0.0423	BACT
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	OPERATES 16 HR/YR ON OIL	0.0326	BACT
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	94	NONE INDICATED	0.0327	BACT
TENASKA FRONTIER GENERATION STATION	OMAHA, TX	8/7/1998	NO	(3) TURBINE/HRSG#1-#3 CASE 1, W/DUCT BURNER	1,464	LOW ASH FUEL	0.0330	BACT
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	FIRING NATURAL GAS IN THE DUCT BURNERS	0.0331	BACT
PRIME ENERGY	ELMWOOD PARK, NJ	8/29/2001	?	COGEN SYSTEM	715	CLEAN FUELS, GCP	0.0338	BACT
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE W/ DB	1,515	WATER INJECTION	0.0350	BACT
						GCP	0.0350	BACT
FORSYTH ENERGY PLANT	FORSYTH, NC	9/29/2005	?	TURBINE, COMBINED CYCLE FUEL OIL (3)	2003	USE OF ONLY CLEAN-BURNING, LOW S FUELS AND GOOD COMBUSTION PRACTICES.	0.0358	BACT
TOWANTIC ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG7241 FA COMBUSTION TURBINE	1,877	NONE INDICATED	0.0361	BACT
THOMAS B. FITZHUGH GENERATING STATION	OZARK, AR	2/15/2002	YES	TURBINE, COMBINED CYCLE, SWPC 501D5A	1,365	NONE INDICATED	0.0365	BACT
LAKE ROAD GENERATING CO, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1,#2,#3	2,276	NO. 2 FUEL OIL - LOW ASH FUEL, GCP	0.0377	BACT
						NONE INDICATED		
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COGENERATION	1,844	MAINTAIN EACH TURBINE IN GOOD WORKING ORDER AND IMPLEMENT GCP	0.0390	BACT
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, ABB GT-24 #1 WITH 2 CHILLERS	2,078	LOW SULFUR (0.05%W) OIL AS BACK-UP	0.0392	BACT
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	CLEAN FUELS	0.0400	BACT
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/29/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LOW SULFUR FUELS	0.0400	BACT
TRANSAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2002	NO	(4) COMBUSTION TURBINES	2,200	CLEAN FUELS	0.0401	BACT
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	EFFICIENT COMBUSTION	0.0420	BACT
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE W/O DB	1,374	NONE INDICATED	0.0437	BACT
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	CLEAN BURNING FUEL, GCP	0.0442	BACT
NYPA POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	NONE INDICATED	0.0470	BACT
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER	WEYMOUTH, MA	3/10/2000	YES	(2) MHI 501G COMBUSTION TURBINE	2,734	NONE INDICATED	0.0500	BACT
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) EMERGENCY TURBINES, STACK 1-4	2,200	FIRING NAT GAS	0.0505	BACT
CAITHNESS LONG ISLAND ENERGY CENTER	BELLPORT, NY	5/10/2006	YES	TURBINE, COMBINED CYCLE (90-100% LOAD)	2,125	LOW SULFUR FUEL OIL	0.0510	BACT
				TURBINE, COMBINED CYCLE (75-90% LOAD)			0.0610	
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE (75%-100% LOAD)	1,480	GCP	0.0530	BACT
				TURBINE, COMBINED CYCLE (<75% LOAD)	1,480		0.0790	BACT
FULTON COGEN PLANT	FULTON, NY	9/15/1994	?	STACK EMISSIONS (TURBINE @DIST OIL & DB)	610	S CONTENT NOT TO EXCEED 0.3% BY WEIGHT	0.0540	BACT
				GAS TURBINE	500		0.0630	BACT
KEYSPAN RAVENSWOOD GENERATING STATION	QUEENS, NY	10/25/2001	YES	(1) COMBUSTION TURBINE, W/ AND W/O DB	1,779	CLEAN FUELS	0.0570	BACT
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	CLEAN FUEL AND EFFICIENT COMBUSTION TECHNIQUES	0.0580	BACT
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE 1 SHORT-TERM	400	NONE INDICATED	0.0650	BACT
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	1,680	0.05% SULFUR DISTILLATE OIL #2 IS USED	0.0667	BACT

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Particulate Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	EMISSION LIMIT CALC BASIS
PCLP	MAYS LANDING, NJ	9/19/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902.1	NONE INDICATED	0.0050	BACT
ATHENS GENERATING, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2.880	CLEAN AND EFFICIENT COMBUSTION TECHNIQUES, 1.080 HR/YR	0.0750	BACT
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/2/1998	YES	(4) EMERGENCY GAS TURBINE STACK1-4	1,400	FIRING NAT GAS	0.0793	BACT
SOUTH MISSISSIPPI ELECTRIC POWER ASSOC.	MOSELL, MS	4/9/1996	YES	COMBUSTION TURBINE COMBINED CYCLE	1,547	GOOD COMBUSTION CONTROLS	0.1263	BACT

S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
(PCLP)	MAYS LANDING, NJ	9/19/1995	?	(2) COMBUSTION TURBINE, W/O DUCT BURNER	902	NONE INDICATED	0.0009	BACT-PSD
				(2) TURBINE WITH DUCT BURNER	1,046		0.0400	
KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX, CT	2/25/2008	NO	SIEMENS SGT6-5000F TURBINE #1 AND #2 W/ DB	2,117	ULTRA LOW SULFUR FUEL (0.0015 % SULFUR BY WEIGHT)	0.0015	BACT-PSD
TENASKA FLUVANNA	VIRGINIA	1/11/2002	YES	(3) TURBINES, COMBINED CYCLE	2,074	USE OF LOW SULFUR FUELS	0.0100	BACT-PSD
CITY OF TALLAHASSEE UTILITY SERVICES	ST. MARKS, FL	5/29/1998	?	TURBINE, COMBINED CYCLE	1,468	NONE INDICATED	0.0124	BACT-OTHER
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	NO	(3) TURBINE, COMBINED CYCLE, W/ DUCT BURNER	2,003	VERY LOW SULFUR NO. 2 FUEL OIL (0.015% S) LIMITED TO 1,200	0.0154	BACT-PSD
				(3) TURBINE, COMBINED CYCLE	2,003	HYR PER TURBINE	0.0162	
FORSYTH ENERGY PROJECTS, LLC	FORSYTH, NC	9/29/2005	YES	3 COMBINED-CYCLE COMB TURBINES W/DB	2,003	VERY LOW-SULFUR OIL (0.015% SULFUR) 1,200 HR/YR	0.0162	BACT-PSD
				3 COMBINED-CYCLE COMB TURBINES W/DB	2,003	VERY LOW S FUEL OIL (0.015% S) 1,200 HYR PER TURBINE	0.0154	BACT-PSD
TRANSAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	CLEAN FUELS	0.0203	BACT
PANDA-BRANDYWINE	BRANDYWINE, MD	6/17/1994	YES	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,884	LOW SULFUR FUEL (< 0.05% SULFUR BY WEIGHT)	0.0272	OTHER
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO.1,2,3	3,168	FIRING FUEL OIL WITH 0.05% S, 720 HYR MAX	0.0336	BACT-PSD
CATHNESS BELLPORT, LLC	SUFFOLK, NY	5/10/2006	NO	COMBINE CYCLE W/ DB	2,126	LOW SULFUR FUEL	0.0360	BACT-PSD
ECOELECTRICA, L.P.	PENUELAS, PR	10/1/1996	YES	(2) SWPC 501F TURBINES, COMBINED-CYCLE	1,844	LNG/LPG AS PRIMARY FUEL, 0.04% S NO. 2 OIL AS BACKUP	0.0382	BACT-PSD
NYP&A POLETTI POWER PROJECT	ASTORIA, NY	10/1/2002	NO (2-2008)	(2) COMBINED CYCLE TURBINES	1,779	NONE INDICATED	0.0420	BACT
KEYSPAN RAVENSWOOD GENERATING STATION	QUEEN'S, NY	10/25/2001	?	(1) COMBINED CYCLE TURBINE, W/ AND W/O DB	2,423	CLEAN FUELS	0.0440	OTHER
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	YES	(2) TURBINE, COMBINED CYCLE	2,283	LOW SULFUR FUEL FUEL OIL < 0.05% S BY WT	0.0463	BACT-OTHER
VA POWER - POSSUM POINT	GLENN ALLEN, VA	11/18/2002	YES	TURBINE, COMBINED CYCLE	2,080	NONE INDICATED	0.0475	BACT-PSD
LSP NELSON ENERGY, LLC	NELSON, IL	1/28/2000	?	TURBINE, COMBINED CYCLE W DUCT BURNER	2,516	BACT IS FUEL < 0.05% S BY WT	0.0479	BACT-PSD
				TURBINE, COMBINED CYCLE W/O DUCT BURNER	2,166		0.0556	
TECO-POLK POWER STATION/MULBERRY	TAMPA, FL	12/23/2002	YES	TURBINE, COMBINED CYCLE	1,765	FUEL SPEC. LOW SULFUR FUEL OIL	0.0480	BACT-PSD
PINE BLUFF ENERGY LLC - PINE BLUFF ENERGY CTR	PINE BLUFF, AR	5/6/1999	YES	TURBINE, COMBINED CYCLE	1,360	COMBUSTION OF LOW S FUELS; 0.5% BY WT S	0.0487	BACT-PSD
PINE BLUFF ENERGY LLC	PINE BLUFF, AR	2/27/2001	YES	TURBINE, COMBINED CYCLE	1,360	LOW SULFUR FUELS - 0.05% S BY WT	0.0489	BACT-PSD
RIVER ROAD GENERATING PROJECT	VANCOUVER, WA	10/25/1995	?	TURBINE	1,984	USE OF LOW SULFUR OIL	0.0493	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	VENUS, TX	5/9/2000	YES	(4) EMERGENCY TURBINES USING FUEL OIL, STACK 1-4	2,200	LOW S FUEL	0.0495	BACT-PSD
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	LOW SULFUR FUELS AND GCP, 1,080 HR/YR	0.0500	BACT
TENASKA ARKANSAS PARTNERS, LP	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE	1,480	FUEL SPECIFICATION: LOW SULFUR FUELS	0.0500	BACT-PSD
FAIRLESS WORKS ENERGY CTR (PMR, SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	YES	TURBINE, COMBINED CYCLE	1,344	NONE INDICATED	0.0509	BACT-OTHER
JAMES CITY ENERGY PARK	WELLESLEY, MA	12/1/2003	NO	TURBINE, COMBINED CYCLE	2,167	LOW SULFUR FUELS	0.0510	BACT-PSD
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	TURBINE, COMBINED CYCLE	1,801	LOW SULFUR FUEL	0.0510	BACT-PSD
TOWANTER ENERGY, LLC	OXFORD, CT	10/2/2002	?	(2) GE PG241 FA COMBUSTION TURBINE	1,877	FUEL SULFUR LIMITED TO < 0.05% FOR FO	0.0513	BACT
LAKE ROAD GENERATING COMPANY L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3	2,276	LOW SULFUR FUEL < 0.05% S	0.0514	BACT
CPV GULFOAST POWER GENERATING STATION	PINEY POINT, FL	2/6/2001	YES	TURBINE, COMBINED CYCLE	1,938	CLEAN FUELS - 0.05% S OIL	0.0516	BACT-PSD
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE/ABB GT-24 #1 WITH 2 CHILLERS	2,078	LOW SULFUR OIL (0.05%W)	0.0520	BACT-PSD
FAYETTEVILLE GENERATION, LLC	SANFORD, NC	1/10/2002	?	(2) TURBINE, COMBINED CYCLE	1,940	LOW SULFUR FUEL: 0.05% S FUEL OIL	0.0520	BACT-PSD
AES LONDONDERRY, LLC	LONDONDERRY, NH	4/26/1999	?	(2) SWPC 501G TURBINE, COMBINED CYCLE #1 AND #2	2,834	LOW SULFUR FUELS	0.0520	BACT-PSD
SITHE, LLC - FORT RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	(2) MH 501G COMBUSTION TURBINE	2,734	NONE INDICATED	0.0522	BACT
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	SULFUR IN FUEL OIL LIMITED TO 0.05%	0.0530	BACT-PSD
CAROLINA POWER AND LIGHT - RICHMOND CO.	RALEIGH, NC	12/21/2000	?	(2) TURBINE, COMBINED CYCLE	1,819	LOW S FUEL < 0.05% S FUEL OIL	0.0540	BACT-PSD
CP&L ROWAN CO TURBINE FACILITY	RALEIGH, NC	3/14/2001	?	(2) TURBINE, COMBINED CYCLE	1,875	LOW SULFUR FUEL: < 0.05% S FUEL OIL	0.0540	BACT-PSD
GARNET ENERGY, MIDDLETON FACILITY	BOISE	10/19/2001	?	(2) TURBINE, COMBINED CYCLE	1,707	LOW SULFUR FUEL, 0.05% BY WEIGHT	0.0544	BACT-PSD
MIRANT BOWLINE, LLC	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	LOW SULFUR FUEL < 0.05% S	0.0550	BACT
LAKELAND C.D. MCINTOSH POWER PLANT	LAKELAND, FL	1999	YES	(1) COMBINED CYCLE GAS TURBINE	2,236	CLEAN FUELS, GOOD COMBUSTION < 0.05% S	0.0568	
SAM RAYBURN GENERATION STATION	NURSERY, TX	1/17/2002	?	(3) COMBUSTION TURBINES 7,8,9 CT7,(8),(9)	360	0.05% SULFUR OIL	0.0583	BACT-OTHER
BIG WING COGENERATION PLANT	BIG SPRING, TX	10/10/1999	NO	(2) CASE III, TURBINE E-1,E-2	720	NONE INDICATED	0.0583	NSPS
CHEHALIS GENERATION FACILITY	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	LOW SULFUR FUELS	0.0647	BACT-PSD
GORHAM ENERGY LIMITED PARTNERSHIP	GORHAM, ME	12/4/1998	?	(3) TURBINE, COMBINED CYCLE	1,680	0.05% SULFUR DISTILLATE OIL #2 USED	0.0679	BACT-PSD
OLEANDER POWER PROJECT	FLORIDA	11/22/1999	NO	TURBINE-GAS, COMBINED CYCLE	1,520	CLEAN FUELS AND GCP	0.0680	BACT-PSD
TENASKA FRONTIER GENERATION STATION	OMAHA, NE	8/7/1998	NO	(3) TURBINE/HRSG #3 CASE 1, W/DUCT BURNER	1,464	NAT GAS IN DBS & LOW S (0.05%) FUEL BACKUP FOR TURBINES	0.0727	BACT-PSD
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUEL	0.0728	BACT-PSD
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURN	1,374	MAX SULFUR CONTENT OF FUEL OIL < 0.05% S BY WEIGHT	0.0735	BACT-PSD
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0776	BACT-PSD
SANTEE COOPER RAINEY GENERATION STATION	MONK'S CORNER, SC	4/3/2000	YES	(2) TURBINE, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0776	BACT-PSD
MIDLOTHIAN ENERGY PROJECT	HOUSTON, TX	10/21/1998	YES	(4) EMERGENCY COMBINED CYCLE GAS TURBINE	1,400	LOW S FUEL	0.0779	BACT-PSD
SILAS RAY POWER STATION UNIT 9	BROWNSVILLE, TX	7/30/1997	NO	UNIT NO. 9 CASE 1 SHORT-TERM	400	LOW SULFUR FUEL	0.0883	BACT-PSD
PONCA CITY MUNICIPAL ELECTRICAL GEN PLANT	OKLAHOMA	9/6/1996	?	COMBUSTION TURBINE	94	LOW SULFUR FUEL - < .1% SULFUR IN FUEL OIL	0.1100	BACT-PSD
PRIME ENERGY	ELMWOOD PARK, NJ	8/29/2001	?	COGEN(COMBUSTION & STEAM TURBINE/GENERATOR)	715	SULFUR <= 0.15% BY WEIGHT WATER INJECTION	0.1552	OTHER
GRAYS FERRY COGEN PARTNERSHIP	PHILADELPHIA, PA	3/21/2001	?	COMBUSTION TURBINE COMBINED CYCLE W/ DUCT BURNER	1,515	GCP, LOW SULFUR FUEL	0.2030	BACT-PSD
PINE STATE POWER	JAY, ME	6/30/1994	?	(2) COMBINED CYCLE TURBINE #1 & #2	1,127	SULFUR CONTENT < 0.3% S BY WT	0.3177	BACT-PSD
SC ELECTRIC AND GAS COMPANY - URQUHART	COLUMBIA, SC	9/22/2000	?	(2) TURBINES COMBINED CYCLE	1,795	SULFUR CONTENT OF FUEL<0.2% BY WEIGHT	0.4028	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	OMAHA, AR	10/3/2001	?	(6) COMBINED CYCLE COMB. TURB. UNITS W/DUCT FIRING	1,360	DIESEL FIRING, LIMIT SULFUR CONTENT	--	BACT-PSD
TENASKA ALABAMA II GENERATING STATION	ALABAMA	2/16/2001	?	(3) COMBINED CYCLE CT UNITS	1,360	DIESEL, LIMITED HOURS	--	BACT-PSD
THOMAS B. FITZHUGH GENERATING STATION	OZARK, AR	2/15/2002	YES	TURBINE, COMBINED CYCLE, SWPC 501DSA	1,365	GCP FUEL S LIMIT: < 0.33% S BY WT	--	BACT-PSD
SEMINOLE HARDEE UNIT 3	FORT GREEN, FL	1/1/1996	?	TURBINE, COMBINED CYCLE COMBUSTION	1,120	LOW S FUEL OIL OR NATL GAS; COMBUSTION OF CLEAN FUELS	--	BACT-PSD
CANE ISLAND POWER PARK /KUA - UNIT 3	INTERCESSION CITY, FL	11/24/1999	?	TURBINE, COMBINED CYCLE, W/ AND W/O DUCT BURNER	1,696	CLEAN FUEL: NO. 2 FUEL OIL WITH 0.05% S CONTENT	--	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 2	ST. PETERSBURG, FL	6/4/2001	YES	(2) TURBINES, COMBINED CYCLE	1,915	LOW SULFUR FUELS, FUEL OIL < 0.05% S CONTENT	--	BACT-PSD
CPV ATLANTIC POWER GENERATING FACILITY	PORT ST. LUCIE, FL	5/9/2001	?	COMBINED CYCLE COMBUSTION TURBINE	1,700	PERMIT LIMIT IS LOW SULFUR FUELS: OIL < 0.05% SULFUR	--	BACT-PSD
LAKE WORTH GENERATION, LLC	LAKE WORTH, FL	11/4/1999	NO	TURBINE, COMBINED CYCLE	1,488	LOW SULFUR FUEL OIL: 0.05% S BY WT	--	BACT-PSD
JEABRANDY BRANCH	JACKSONVILLE, FL	3/27/2002	YES	(2) TURBINES, COMBINED CYCLE	1,911	CLEAN FUELS SULFUR FUEL LIMIT	--	BACT-OTHER
CPV PIERCE	FLORIDA	8/7/2001	?	TURBINE, COMBINED CYCLE	1,898	CLEAN FUEL - < 0.05 % S FUEL	--	BACT-PSD
CPV CANA	FLORIDA	1/17/2002	?	TURBINE, COMBINED CYCLE	1,898	LOW SULFUR FUEL < 0.05%	--	BACT-PSD
FPL MARTIN PLANT	JUNO BEACH, FL	4/16/2003	?	(4) TURBINE, COMBINED CYCLE	1,811	ULSD FUEL OIL (0.05% S BY WEIGHT)	--	BACT-PSD
FORT PIERCE REPOWERING	FORT PIERCE, FL	8/15/2001	?	TURBINE, COMBINED CYCLE	1,440	FUEL SPECIFICATIONS: DISTILLATE OIL < 0.05% S BY WT	--	BACT-PSD
HINES ENERGY COMPLEX, POWER BLOCK 3	ST. PETERSBURG, FL	9/8/2003	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,830	LOW SULFUR FUEL	--	BACT-PSD
NEWINGTON ENERGY LLC	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LOW SULFUR FUEL OIL, LESS THAN 0.05% SULFUR	--	BACT-OTHER
COYOTE SPRINGS PLANT	BOARDMAN, OR	10/13/1998	?	COMBUSTION TURBINE #1	1,932	FUEL OIL SULFUR CONTENT < 0.5% BY WEIGHT.	--	OTHER
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	?	COMBUSTION TURBINE COMBINED CYCLE	2,320	ULSD FUEL (< 15 PPM S) <1400 HR/YR. PRIMARY FUEL NAT GAS	--	BACT-OTHER

S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, LNB = LOW NOX BURNERS

Appendix G
Recent RACT/BACT/LAER Determinations for Fuel Oil-Fired Combined Cycle Combustion Turbines > 25 MW
Sulfuric Acid Mist Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CPV GULFCOAST POWER GENERATING STATION	PINEY POINT, FL	2/5/2001	YES	TURBINE, COMBINED CYCLE	1,918	CLEAN FUELS -- < 0.05% S OIL	0.0001	BACT-PSD
			NO	COMBUSTION TURBINE W/ DB	2,221	LOW SULFUR FUEL	0.0004	BACT-PSD
CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK, NY	5/10/2006	NO	COMBUSTION TURBINE W/O DB	2,125	LOW SULFUR FUEL (0.04%)	0.015	BACT-PSD
PDC EL PASO MILFORD LLC	MILFORD, CT	4/16/1999	?	(2) TURBINE, COMBUSTION ABB GT-24 #1 W/ 2 CHILLERS	2,078	LOW SULFUR OIL (0.05%W)	0.0009	BACT-PSD
LAKE ROAD GENERATING COMPANY, L.P.	KILLINGLY, CT	11/30/2001	?	(3) TURBINE, COMBUSTION ABB GT-24 #1, #2, #3	2,276	NONE INDICATED	0.0016	BACT
PANDA-BRANDYWINE	MARYLAND	6/17/1994	?	(2) COMBUSTION TURBINES, COMBINED CYCLE	1,984	NONE INDICATED	0.0030	OTHER
TENASKA GATEWAY GENERATING STATION	TEXAS	5/7/1999	NO	(3) TURBINE/HRSG NO. 1,2,3	3,168	FUEL OIL S CONTENT: 0.05%; 720 H/YR MAX	0.0033	BACT-PSD
TENASKA ALABAMA GENERATING STATION	BILLINGS, AL	11/29/1999	YES	(3) TURBINES & DUCT BURNER	1,360	INHERENTLY LIMITED BY FUEL OIL SULFUR LIMITATION	0.0040	BACT-PSD
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	NO	(4) COMBUSTION TURBINES	2,200	CLEAN FUELS	0.0062	BACT
DRESDEN ENERGY LLC	OHIO	10/16/2001	YES	(2) COMBUSTION TURBINE COMB. CYCLE W/O DUCT BURN	1,374	NONE INDICATED	0.0069	SIP
COLUMBIA ENERGY LLC	COLUMBIA, SC	4/9/2001	?	(2) TURBINES, COMBINED CYCLE	1,360	GCP, CLEAN BURNING LOW SULFUR FUELS	0.0074	BACT-PSD
ATHENS GENERATING COMPANY, L.P.	ATHENS, NY	6/12/2000	?	(3) SWPC 510G COMBUSTION TURBINES	2,880	LOW S FUELS & EFFICIENT COMB TECHNIQUES, 1,080 HR/YR	0.0080	BACT
RAINEY GENERATING STATION	STARR, SC	4/3/2000	?	(2) TURBINES, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0089	BACT-OTHER
SANTEE COOPER RAINEY GENERATION STATION (PCLP)	MONKS CORNER, SC	4/3/2000	YES	(2) TURBINE, COMBINED CYCLE	1,360	LOW SULFUR FUELS	0.0089	BACT-PSD
CHEHALIS GENERATION FACILITY	MAYS LANDING, NJ	9/19/1995	?	(2) TURBINE WITH DUCT BURNER	1,046	NONE INDICATED	0.0100	BACT-PSD
NYP&A POLETTI POWER PROJECT	WASHINGTON	6/18/1997	YES	(2) COMBUSTION TURBINES	1,840	LOW-SULFUR FUELS	0.0103	BACT-PSD
MIRANT BOWLINE, LLC	ASTORIA, NY	10/1/2002	YES	(2) COMBINED CYCLE TURBINES	1,779	NONE INDICATED	0.0120	BACT
KEYSPAN RAVENSWOOD GENERATING STATION	WEST HAVERSTRAW, NY	3/22/2002	NO	(3) COMBINED CYCLE TURBINES	2,272	LOW SULFUR FUEL < 0.05% S	0.0130	BACT
ASTORIA ENERGY, LLC	QUEENS, NY	10/25/2001	YES	(1) COMBINED CYCLE COMBUSTION TURBINE, W/ & W/O DB	1,779	CLEAN FUELS	0.0140	OTHER
LSP - COTTAGE GROVE, L.P.	ASTORIA, NY	12/5/2001	NO	(4) COMBINED CYCLE TURBINES	2,000	CLEAN FUELS	0.0152	BACT
NEWINGTON ENERGY LLC	COTTAGE GROVE, MN	11/10/1998	YES	GENERATOR, COMBUS TURBINE & DUCT BURNER	2,258	NONE INDICATED	0.0170	BACT-PSD
TENASKA ARKANSAS PARTNERS, LP	NEWINGTON, NH	4/26/1999	NO	(2) TURBINES, COMBINED CYCLE	1,280	LOW SULFUR FUEL OIL	0.0214	BACT-OTHER
	OMAHA, AR	10/9/2001	NO	TURBINE, COMBINED CYCLE	1,480	FUEL SPECIFICATION: LOW SULFUR FUEL	0.0230	BACT-PSD

S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, DLN = DRY LOW NOX, SCR = SELECTIVE CATALYTIC REDUCTION

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Nitrogen Oxide Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	NO _x EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
MAPEE ALCOHOL FUEL, INC.	3/27/1981	?	AUXILIARY BOILER	35	LOW EXCESS AIR	0.0006	BACT-PSD
MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	NO	SMALL BOILERS & HEATERS(<100 MMBTU/H)	99	NONE INDICATED	0.0035	BACT-PSD
CHILDREN'S HOSPITAL LOS ANGELES	12/2/1999	?	BOILER	34	SCR	0.0085	LAER
CHILDREN'S HOSPITAL LOS ANGELES	12/2/1999	?	(2) BOILERS	24	SCR	0.0085	LAER
COCA COLA	11/23/1999	?	SCOTCH MARINE CUSTOM FIRE-TUBE BOILER	32	COEN - LNB, PEERLESS - SCR	0.0085	BACT-PSD
LACORR PACKAGING	7/12/2000	?	CLEAVER BROOKS MODEL CB-LE 500 BOILER	21	SCR	0.0090	LAER
WOODBIDGE ENERGY CENTER	7/25/2012	NO	Commercial/Institutional size boilers less than 100 MMBtu/hr	92	LOW NOX BURNER	0.0100	LAER
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP26	24	LOW NOX BURNER	0.0108	BACT-PSD
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC026, CC027 AND CC028 AT CITY CENTER	44	LOW NOX BURNER AND GOOD COMBUSTION PRACTICES	0.0109	BACT-PSD
WARREN COUNTY FACILITY	1/14/2008	?	AUXILIARY BOILER - SCENARIO 3	62	CEM SYSTEM	0.0110	BACT-PSD
WARREN COUNTY FACILITY	1/14/2008	?	AUXILIARY BOILER - SCENARIO 2	97	CEM SYSTEM	0.0110	BACT-PSD
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC001, CC002, AND CC003 AT CITY CENTER	42	LOW NOX BURNER AND FLUE GAS RECIRCULATION	0.0110	BACT-PSD
CPV ST CHARLES	11/12/2008	?	BOILER	93	LOW NOX WITH FGR	0.0110	BACT-PSD
MEDIMMUNE FREDERICK CAMPUS	1/28/2008	NO	4 NATURAL GAS BOILERS EACH RATED AT 29.4 MMBTU/HR	29	ULTRA LOW NOX BURNERS	0.0110	LAER
CPV WARREN	1/14/2008	NO	AUXILIARY BOILER - SCENARIO 2	97	CEM SYSTEM	0.0110	N/A
CPV WARREN	1/14/2008	NO	AUXILIARY BOILER - SCENARIO 3	62	CEM SYSTEM	0.0110	N/A
CAITHNESS BELLPORT ENERGY CENTER	5/10/2006	YES	AUXILIARY BOILER	29	LOW NOX BURNERS & FLUE GAS RECIRCULATION	0.0110	BACT-PSD
ASTORIA ENERGY, LLC	12/5/2001	?	AUXILIARY BOILER	99	NATURAL GAS ONLY	0.0110	LAER
NATION WIDE BOILER	3/15/2000	?	PORTABLE BOILER	29	NONE INDICATED	0.0110	LAER
HI-COUNTRY	12/16/1999	YES	FIRE TUBE BOILER	21	LNB	0.0110	LAER
UNIVERSITY OF CALIFORNIA IRVINE MEDICAL CENTER	1/16/1992	?	ZURN/KEYSTONE WATERTUBE BOILER	49	SIX ALZETA CORPORATION CERAMIC FIBER RADIANT LNB	0.0110	BACT-PSD
KAL KAN FOODS, INC.	7/24/1990	?	COEN DAF LOW NOX WATER-TUBE BOILER	79	SCR, LNB	0.0110	LAER
MERCK - RAHWAY PLANT	1/14/1997	?	(3) BOILERS	100	ULTRA LNB	0.0111	OTHER
KALKAN FOODS INC.	7/24/1990	?	BABCOCK AND WILCOX WATER-TUBE BOILER	79	SCR, FLUE GAS RECIRC COEN DAF BURNER	0.0111	LAER
VALERO DELAWARE CITY REFINERY	2/26/2010	?	PACKAGE BOILERS (2009)	100	SCR AND LOW NOX BURNERS	0.0150	BACT-PSD
LIBERTY CONTAINER CO	3/17/2000	?	CLEAVER BROOKS CB (LE) 700-400	16	ULTRA LNB	0.0150	LAER
BUMBLE BEE SEAFOODS, INC.	3/10/2000	?	SUPERIOR MOHAWK MODEL 4X-2007-S150 FIRE TUBE BOILER	16	LNB AND FGR	0.0150	LAER
LA PORTE POLYPROPYLENE PLANT	11/5/2001	NO	PACKAGE BOILER BO-4	60	ULTRA LNB	0.0150	OTHER
FLOPAM INC.	6/14/2010	?	Boilers	25	ULNB	0.0151	BACT-PSD
SANTA MONICA - UCLA MEDICAL CENTER	1/28/2000	?	CLEAVER BROOKS MODEL CE (LE) 200-400 FIRE-TUBE BOILER	16	LNB AND FGR	0.0180	LAER
SABINA PETROCHEMICALS LLC	8/20/2010	?	BOILER		LOW NOX BURNERS AND SCR	0.0200	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	NO	NATURAL GAS BOILER (292.5 MMBTU/H)	293	ADVANCED ULNB WITH FGR AND GCP	0.0200	BACT-PSD
CALPINE WAWAYANDA	7/22/2002	NO	AUXILIARY STEAM BOILER	80	LNB AND FGR	0.0200	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA01	17	LOW-NOX BURNER AND BLUE GAS RECIRCULATION	0.0300	BACT-PSD
ECHO SPRINGS GAS PLANT	4/1/2009	?	HOT OIL HEATER S38	84	LOW NOX BURNERS WITH FLUE GAS RECIRCULATION	0.0300	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-5 NEW NO. 1 CTU TAR STRIPPER HEATER	98	ULTRA-LOW NOX BURNERS. 0.03 LB/MMBTU	0.0300	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-4 NEW NO. 4 CTU CRUDE HEATER	125	ULTRA-LOW NOX BURNERS. 0.03 LB/MMBTU	0.0300	BACT-PSD
NELLIS AIR FORCE BASE	2/26/2008	?	BOILERS/HEATERS - NATURAL GAS-FIRED		LOW-NOX BURNER AND FLUE GAS RECIRCULATION	0.0300	BACT-PSD
ANNISTON ARMY DEPOT	6/19/1997	?	(2) BOILER	13	LNB, CLEAN FUEL	0.0300	BACT-PSD
ANNISTON ARMY DEPOT	6/19/1997	?	(2) BOILER	12	CLEAN FUEL, LNB	0.0300	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA03	31	LOW-NOX BURNER	0.0306	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-3 NEW NO. 4 CTU VACUUM HEATER	45	ULTRA-LOW NOX BURNERS. 0.03 LB/MMBTU	0.0309	BACT-PSD
INTERNATIONAL STATION POWER PLANT	12/20/2010	?	Sigma Thermal Auxiliary Heater (1)	13	LNB AND FGR	0.0314	BACT-PSD
VENTURA COASTAL CORP.	11/17/1988	?	CLEAVER-BROOKS MODEL CB-400 BOILER	27	NONE INDICATED	0.0327	OTHER
PRO TEC COATING COMPANY	2/15/2001	?	(4) BOILERS	21	LNB	0.0330	SIP
MEDIMMUNE FREDERICK CAMPUS	1/28/2008	?	(4) NATURAL GAS BOILERS EACH RATED AT 29.4 MMBTU/HR	29	ULTRA LOW NOX BURNERS	0.0332	BACT-PSD
COTTAGE HEALTH CARE - PUEBLO STREET	5/16/2006	NO	BOILER: 5 TO < 33.5 MMBTU/H	25	ULTRA-LOW NOX BURNER	0.0332	BACT-PSD
GENENTECH, INC.	9/27/2005	NO	BOILER:>= 50 MMBTU/H	97	ULTRA LOW NOX BURNERS: NATCOM P-97-LOG-35-2127	0.0332	BACT-PSD
TOMA-TEK INC.	3/1/1989	?	WATER TUBE BOILER W/ DYNASWIRL BURNER	90	LNB, GCP	0.0339	BACT-PSD
HAWKEYE GENERATING, LLC	7/23/2002	?	AUXILIARY BOILER	49	GCP	0.0340	BACT-PSD
FREMONT ENERGY CENTER, LLC	8/9/2001	?	AUXILIARY BOILER	80	LNB	0.0340	BACT-PSD
DEMING ENERGY FACILITY	12/29/2000	?	AUXILIARY BOILER	44	DRY LNB, NATURAL GAS, AND GOOD ENGINEERING PRACTICE	0.0340	BACT-PSD
VENTURA COASTAL CORP.	8/31/1987	?	CLEAVER-BROOKS MODEL CB-400 BOILER	31	FGR OXYGEN TRIM	0.0341	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/28/2004	?	BOILERS (2)	31	NONE INDICATED	0.0350	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/13/2001	?	(2) BOILER	37	NONE INDICATED	0.0350	BACT-PSD
HONDA MANUFACTURING OF ALABAMA, LLC	2/29/2000	?	BOILERS	10	NATURAL GAS FUEL ONLY, LNB	0.0350	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP01	35	LOW NOX BURNER	0.0350	BACT-PSD
THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/2007	NO	3 NATURAL GAS-FIRED BOILERS WITH ULNB & EGR (537-539)	65	ULNB & EGR -- SAME FLUE GAS RECIRCULATION (FGR)	0.0350	BACT-PSD
NUCOR DECATUR LLC	6/12/2007	NO	VACUUM DEGASSER BOILER	95	ULTRA LOW NOX BURNERS	0.0350	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	1/4/2007	NO	COMMERCIAL/INSTITUTIONAL-SIZE BOILERS	35	LOW-NOX BURNER AND FLUE GAS RECIRCULATION	0.0350	BACT-PSD
COPPER MOUNTAIN POWER	5/14/2004	?	AUXILIARY BOILER	60	LOW NOX BURNER (WITH EITHER INTERNAL OR EXTERNAL FGR)	0.0350	UNKNOWN
HYUNDAI MOTOR MANUFACTURING OF ALABAMA, LLC	3/23/2004	?	BOILERS, NATURAL GAS (3)	50	NATURAL GAS ONLY; LOW NOX BURNERS	0.0350	BACT-PSD
HYUNDAI MOTOR MANUFACTURING OF ALABAMA, LLC	3/23/2004	?	(3) BOILERS	50	NATURAL GAS ONLY; LNB	0.0350	BACT-PSD
QUAD GRAPHICS OKC FAC	2/3/2004	?	BOILERS	27	LNB, CLEAN FUEL AND FGR	0.0350	BACT-PSD
COB ENERGY FACILITY, LLC	12/30/2003	?	(2) AUXILIARY BOILERS	80	LNB AND FGR	0.0350	BACT-PSD
NUCOR STEEL	11/21/2003	?	(2) BOILER	34	LNB, NATURAL GAS	0.0350	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEF I AND II)	11/6/2003	?	(2) AUXILIARY BOILERS	33	OPERATION LIMITED TO < 6,000 HR/YR	0.0350	BACT-PSD
MURRAY ENERGY FACILITY	10/23/2002	NO	AUXILIARY BOILER	36	DRY LNB, FGR (< 6,000 HR/YR)	0.0350	BACT-PSD
HONDA MANUFACTURING OF ALABAMA, LLC	10/18/2002	?	(3) BOILERS	30	LNB, CLEAN FUEL, GOOD COMBUSTION	0.0350	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	4/1/2002	?	AUXILIARY BOILER	33	NONE INDICATED	0.0350	BACT-PSD
MARTINSBURG PLANT	8/30/2001	?	BOILER	54	LNB AND FGR	0.0350	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Nitrogen Oxide Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	NO _x EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
MARTINSBURG PLANT	8/30/2001	?	(3) BOILERS	66	LNB AND FGR	0.0350	BACT-PSD
QUAD GRAPHICS OKC FACILITY	8/21/2001	?	BOILERS	63	LNB	0.0350	BACT-PSD
SWEC-FALLS TOWNSHIP	8/7/2001	?	AUXILIARY BOILER	41	NATURAL GAS ONLY	0.0350	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	3/10/2000	YES	AUXILIARY BOILER	96	OPERATION LIMITED TO < 500 HR/YR	0.0350	BACT-PSD
WESTBROOK POWER LLC	12/4/1998	?	AUXILIARY BOILER	25	LNB, FGR (< 1,000 HR/YR)	0.0350	LAER
MORTON INTERNATIONAL	8/23/1995	?	STANDBY MID-SIZE BOILER	93	LIMIT OPERATION TO 500 HOURS PER YEAR	0.0350	RACT
STAFFORD RAILSTEEL CORPORATION	8/17/1993	?	VTD BOILER	47	FUEL SPEC: USE OF NATURAL GAS & LNB	0.0351	BACT-PSD
CENTRAL SOYA COMPANY INC.	11/29/2001	?	BOILER	91	USE OF LNB	0.0352	SIP
CASCO BAY ENERGY CO	7/13/1998	?	AUXILIARY BOILER	21	DLN COMBUSTORS	0.0352	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	NO	BOILER -2 NATURAL GAS	20	LOW NOX BURNERS AND FLUE GAS RECIRCULATION	0.0353	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT FL01	14	LOW NOX BURNER AND FLUE GAS RECIRCULATION	0.0353	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	9/29/1999	?	AUXILIARY BOILER	96	SCR	0.0354	BACT-PSD
KAMINE/BESICORP SYRACUSE LP	12/10/1994	?	(3) UTILITY BOILERS	33	INDUCED FGR	0.0355	BACT-OTHER
DUKE ENERGY WYTHE, LLC	2/5/2004	NO	AUXILIARY BOILER	37	GCP	0.0355	BACT-PSD
SUWANNEE MILL	9/5/2012	NO	Four(4) Natural Gas Boilers - 46 MMBtu/hour	46	LOW NOX BURNERS AND FLUE GAS RECIRCULATION	0.0360	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	TB-1, TB-2, TB-3	95	ULTRA-LOW NOX BURNERS; 0.036 LB/MMBTU.	0.0360	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	TB-1 Leased Boiler No. 1	95	ULNB	0.0360	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	TB-2 Leased Boiler No.2	95	ULNB	0.0360	BACT-PSD
VA POWER - POSSUM POINT	11/18/2002	?	AUXILIARY BOILER	99	LNB AND LOW NOX FUEL	0.0360	BACT-OTHER
DART CONTAINER CORP OF PA	12/14/2001	YES	(2) CLEAVER BROOKS BOILERS	34	LNB	0.0360	NSPS
MCCLAIN ENERGY FACILITY	10/25/2001	?	AUXILIARY BOILER	22	NATURAL GAS FUEL AND GOOD COMBUSTION CONTROL	0.0360	BACT-PSD
ANNISTON ARMY DEPOT	1/5/2001	?	(2) BOILERS	12	LNB	0.0360	BACT-PSD
ANNISTON ARMY DEPOT	1/5/2001	?	(2) BOILERS	13	LNB	0.0360	BACT-PSD
DARLING INTERNATIONAL	12/30/1996	?	NEBRASKA BOILER MODEL NS-B-40	31	LNB, FGR	0.0360	LAER
SUNLAND REFINERY	9/24/1992	?	(2) BOILERS	13	FGR/LNB	0.0360	BACT-OTHER
WPS - WESTON PLANT	8/27/2004	?	NATURAL GAS FIRED BOILER	46	BURNER DESIGN, NATURAL GAS FUELED	0.0361	N/A
KLAMATH GENERATION, LLC	3/12/2003	?	AUXILIARY BOILER	59	NONE INDICATED	0.0363	BACT-PSD
CLOVIS ENERGY FACILITY	6/27/2002	?	(2) AUXILIARY BOILERS	33	CLEAN FUEL, GCP	0.0364	BACT-PSD
CON AGRA SOYBEAN PROCESSING CO.	8/14/1998	?	REFINERY & HYDROGEN PLANT REFORMER BOILERS	10	LNB AND FGR	0.0365	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT PA15	21	LOW NOX BURNER	0.0366	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP03	33	LOW NOX BURNER	0.0367	BACT-PSD
SITIX OF PHOENIX, INC.	2/1/1996	?	BOILER	42	FGR	0.0369	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	1/18/2001	?	BOILER	47	NONE INDICATED	0.0369	BACT-PSD
SOLVAY SODA ASH JOINT VENTURE TRONA MINE/SODA ASH	2/6/1998	?	BOILER	100	LNB SYSTEM	0.0380	LAER
VALERO DELAWARE CITY REFINERY	2/26/2010	?	CRUDE UNIT ATMOSPHERIC HEATER 21-H-701		SCR	0.0400	BACT-PSD
NORTHWEST PIPELINE CORP.-MT VERNON COMPRESSOR	6/14/2006	?	BOILER, NATURAL GAS	4	GOOD COMBUSTION PRACTICE	0.0400	BACT-PSD
FAIRBAULT ENERGY PARK	7/15/2004	?	BOILER, NATURAL GAS (1)	40	LOW NOX BURNER; FGR.	0.0400	BACT-PSD
FAIRBAULT ENERGY PARK	7/15/2004	NO	BOILER	40	LNB; FGR	0.0400	BACT-PSD
J & L SPECIALTY STEEL, INC.	1/13/2003	?	DRAP LINE BOILER	34	ULTRA LNB	0.0400	BACT-OTHER
GENOVA ARKANSAS I, LLC	8/23/2002	?	AUXILIARY BOILER	33	LNB AND/OR FGR	0.0400	BACT-PSD
SHELL CHEMICAL COMPANY - GEISMAR PLANT	5/10/2000	?	C15/C16 COLUMN REBOILER FURNACE	21	LNB	0.0400	BACT-PSD
CABOT POWER CORPORATION	5/7/2000	?	AUXILIARY BOILER	27	SCR, DLN COMBUSTOR	0.0400	LAER
VICKSBURG CHEMICAL COMPANY	10/27/1998	?	BOILER	99	LNB AND FGR	0.0420	BACT-PSD
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	?	BOILER,PROCESS STEAM (2) SN-PBCDF-03 -04	32	LOW-NOX BURNERS WITHOUT FLUE GAS RECIRCULATION.	0.0476	BACT-PSD
CPV CUNNINGHAM CREEK	9/6/2002	?	AUXILIARY BOILER	80	LNB AND GCP	0.0478	BACT-PSD
MCCLELLAN AFB, U.S. GOVERNMENT	10/29/1986	?	BOILER	62	LNB, FGR	0.0484	BACT-PSD
GILROY ENERGY CO.	8/1/1985	?	(2) AUXILIARY BOILER	90	LNB	0.0489	BACT-PSD
FOLSOM PRISON	6/12/1986	?	(2) BOILER	48	FGR	0.0490	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT IP04	17	LOW NOX BURNER	0.0490	BACT-PSD
PRYOR PLANT CHEMICAL	2/23/2009	?	NITRIC ACID PREHEATERS #1, #3, AND #4	20	LOW-NOX BURNERS AND GOOD COMBUSTION PRACTICES.	0.0490	BACT-PSD
CONCORD STEAM CORPORATION	2/27/2009	?	BOILER 3 (AUXILIARY)	77	LNB, FGR, AND LESS THAN 700 HOURS OF OPERATION/YEAR	0.0490	BACT-PSD
CONCORD STEAM CORPORATION	2/27/2009	?	BOILER 2 (AUXILIARY)	77	LNB, FGR, AND LESS THAN 700 HOURS OF OPERATION/YEAR	0.0490	BACT-PSD
EMERY GENERATING STATION	12/20/2002	?	AUXILIARY BOILER	68	DLN	0.0490	BACT-OTHER
ALLEGHENY ENERGY SUPPLY CO. LLC	12/7/2001	?	AUXILIARY BOILER	21	LNB	0.0490	BACT-PSD
DUKE ENERGY, VIGO LLC	6/6/2001	?	(2) AUXILIARY BOILERS	46	GOOD COMBUSTION. LNB	0.0490	BACT-PSD
THUNDERBIRD POWER PLT	5/17/2001	?	AUXILIARY BOILER	20	LNB	0.0490	BACT-PSD
MIRANT SUGAR CREEK, LLC	5/9/2001	?	(2) AUXILIARY BOILERS	35	LNB, GOOD COMBUSTION, NATURAL GAS	0.0490	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	10/1/1999	?	AUXILIARY BOILER	24	LNB	0.0490	BACT-PSD
TITAN TIRE CORPORATION OF BRYAN	6/5/2008	?	BOILER	50	NONE INDICATED	0.0490	BACT-PSD
GENPOWER EARLEYS, LLC	1/9/2002	?	AUXILIARY BOILER	83	LNB	0.0490	BACT-PSD
CARTY PLANT	12/29/2010	?	NATURAL GAS-FIRED BOILER	91	LNB	0.0495	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	3/21/2003	?	AUXILIARY BOILER	33	LNB	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	HGT REACTOR CHARGE HEATER	2	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	REACTIVATION HEATER	12	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	GASIFICATION PREHEATER 2	21	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	GASIFICATION PREHEATER 3	21	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	GASIFICATION PREHEATER 4	21	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	GASIFICATION PREHEATER 5	21	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	GASIFICATION PREHEATER 1	21	LOW NOX BURNERS	0.0500	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	CATALYST REGENERATOR	22	LOW NOX BURNERS	0.0500	BACT-PSD

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Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Nitrogen Oxide Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	NO _x EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
MEDICINE BOW IGL PLANT	3/4/2009	?	AUXILIARY BOILER	66	LOW NOX BURNERS	0.0500	BACT-PSD
PRYOR PLANT CHEMICAL	2/23/2009	?	BOILERS #1 AND #2	80	LOW-NOX BURNERS AND GOOD COMBUSTION PRACTICES	0.0500	BACT-PSD
FPL WEST COUNTY ENERGY CENTER	1/10/2007	NO	TWO 99.8 MMBTU/HR GAS-FUELED AUXILIARY BOILERS	100	NONE INDICATED	0.0500	BACT-PSD
OHIO RIVER PLANT	6/9/2004	NO	BOILER	39	LNB/FGR	0.0500	BACT-PSD
LAWRENCE ENERGY	9/24/2002	?	BOILER	99	LNB	0.0500	BACT-PSD
BARTON SHOALS ENERGY	7/12/2002	?	(2) AUXILIARY BOILERS	40	LNB	0.0500	BACT-PSD
GENOVA OK I POWER PROJECT	6/13/2002	?	AUXILIARY BOILER	33	LNB	0.0500	BACT-PSD
GREATER DES MOINES ENERGY CENTER	4/10/2002	?	AUXILIARY BOILER	68	NONE INDICATED	0.0500	BACT-PSD
WEBERS FALLS ENERGY FACILITY	10/22/2001	?	AUXILIARY BOILER	30	LNB (< 3,000 HR/YR)	0.0500	BACT-PSD
GENPOWER KELLEY LLC	1/12/2001	?	BOILER	83	LNB	0.0500	BACT-PSD
AMERICAN SODA, LLP, PARACHUTE FACILITY	5/6/1999	?	INDUSTRIAL BOILER	81	LOW NOX COMBUSTION SYSTEM	0.0500	BACT-PSD
AMERICAN SODA, LLP, PINEANCE FACILITY	5/6/1999	?	TEST MINE HOT WATER BOILER NO.2	51	LOW NOX COMBUSTION SYSTEM	0.0500	BACT-PSD
AIR LIQUIDE AMERICA CORPORATION	2/13/1998	?	BOILER NO. 1	95	LNB	0.0500	BACT-PSD
I/N KOTE	11/20/1989	?	PACKAGE BOILER	71	FUEL SPEC: USE OF NATURAL GAS & FGR	0.0500	BACT-PSD
I/N TEK	10/15/1987	?	(2) BOILER	73	FGR, NOX SUPPRESSION & BURNER DESIGN	0.0500	BACT-PSD
NAVAL STATION TREASURE ISLAND	12/19/1986	?	STEAM BOILER	24	LNB, FGR	0.0500	OTHER
SCHERING CORPORATION	3/7/1996	?	BOILERS 4&5	94	LNB	0.0506	BACT-PSD
BMW MANUFACTURING CORP.	1/7/1994	?	(3) AUXILIARY BOILERS	60	LNB AND FGR	0.0508	BACT-PSD
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	NO	(2) HOT WATER BOILER	12	LNB	0.0513	BACT-PSD
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	NO	(2) PROCESS STEAM BOILER	28	LNB	0.0528	BACT-PSD
OHIO RIVER PLANT	6/9/2004	?	BOILER, NATURAL GAS 39.00 MMBTU	39	LOW-NOX BURNERS/FLUE-GAS RECIRCULATION	0.0533	BACT-PSD
RINCON POWER PLANT	3/24/2003	?	AUXILIARY BOILER	83	NONE INDICATED	0.0550	BACT-OTHER
DEL MONTE FOODS, USA	9/26/1990	?	JOHNSTON BOILER	21	JOHNSTON BURNER	0.0586	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	CCR STABILIZATION REBOILER	54	NONE INDICATED	0.0600	BACT-PSD
INDELK ENERGY SERVICES OF OTSEGO	3/16/1993	?	BOILER	99	FGR	0.0600	BACT-OTHER
INTEL CORPORATION	9/1/1996	?	(10) BOILERS	54	LNB	0.0611	BACT-PSD
CONCORD STEAM CORPORATION	2/27/2009	?	BOILER #1	77	SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM	0.0650	BACT-PSD
AMTRAK	10/12/1988	?	(2) BOILER	90	LNB	0.0652	BACT-PSD
REPUBLIC STEEL	7/18/2012	?	Steam Boiler	65	NONE INDICATED	0.0700	BACT-PSD
CHOUTEAU POWER PLANT	1/23/2009	?	AUXILIARY BOILER	34	LOW-NOX BURNERS	0.0700	BACT-PSD
CHOUTEAU POWER PLANT	3/24/1999	YES	AUXILIARY BOILER	27	LNB	0.0700	BACT-PSD
DOW CHEMICAL CO.	2/21/1989	?	(2) BOILER	40	FGR, LOW EXCESS AIR STAGED COMBUSTION	0.0700	BACT-PSD
WAUPACA FOUNDRY - PLANT 5	1/19/1996	?	BOILERS	94	LNB	0.0739	BACT-PSD
REDBUD POWER PLT	5/6/2002	?	AUXILIARY BOILER	93	LNB	0.0750	BACT-PSD
HULS AMERICA	8/31/1990	?	(2) BOILERS	39	LNB	0.0750	BACT-PSD
QUALITECH STEEL CORP.	10/31/1996	?	BOILERS	68	NONE INDICATED	0.0794	BACT-PSD
BLUEWATER PROJECT	7/22/2004	?	BOILERS	22	LOW NOX BURNERS	0.0800	BACT-PSD
BLUEWATER PROJECT	7/22/2004	NO	BOILERS	22	LNB	0.0800	BACT-PSD
INDECK-ELWOOD, LLC	10/10/2003	?	BOILER	99	OPERATION LIMITED TO < 2,500 HR/YR	0.0800	BACT-PSD
ABBOTT LABORATORIES, STURGIS PLANT	9/16/2003	?	BOILER	99	LNB AND FGR	0.0800	BACT-PSD
HENRY COUNTY POWER	11/21/2002	?	(2) AUXILIARY BOILER	40	LNB AND CLEAN FUEL	0.0800	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	10/5/2001	?	AUXILIARY BOILER	35	CLEAN FUEL, LNB	0.0800	BACT-PSD
BLOUNT MEGAWATT FACILITY	2/5/2001	?	AUXILIARY BOILER	40	LNB	0.0800	BACT-PSD
ROCKPORT WORKS	2/13/1997	?	(2) BOILERS BH NO. 2	76	LNB	0.0800	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	BOILER, NO. 9	95	NONE INDICATED	0.0840	BACT-PSD
DOUGLAS AIRCRAFT CO.	4/23/1987	?	(3) BOILER	34	FGR, OXYGEN TRIM	0.0846	BACT-PSD
JACKSON COUNTY POWER, LLC	12/27/2001	?	AUXILIARY BOILER	76	LNB	0.0880	BACT-PSD
QUINCY SOYBEAN COMPANY OF ARKANSAS	3/4/1997	?	COGENERATION/WASTE HEAT RECOVERY BOILER	68	LOW NOX COMBUSTORS	0.0926	BACT-PSD
CRESCENT CITY POWER	6/6/2005	NO	FUEL GAS HEATERS (3)	19	LOW NOX BURNERS AND GOOD COMBUSTION PRACTICES	0.0953	BACT-PSD
CALIFORNIA DEPT. OF CORRECTIONS	12/18/1987	?	(2) BOILER	36	FGR	0.0954	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	10/3/2001	?	AUXILIARY BOILER	30	LOW NOX COMBUSTION	0.0960	BACT-PSD
CHARTER STEEL	6/10/2004	?	BOILER FOR VACUUM OXYGEN DEGASSER VESSEL	29	LOW NOX BURNER	0.0979	BACT-PSD
LAKE CHARLES GASIFICATION FACILITY	6/22/2009	?	SHIFT REACTOR STARTUP HEATER	34	GOOD DESIGN AND PROPER OPERATION	0.0980	BACT-PSD
MUSTANG ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILER	31	GCP AND DESIGN	0.0980	BACT-PSD
HORSESHOE ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILERS	31	GCP AND DESIGN	0.0980	BACT-PSD
LAKE CHARLES GASIFICATION FACILITY	6/22/2009	?	METHANATION STARTUP HEATERS	57	GOOD DESIGN AND PROPER OPERATION	0.0981	BACT-PSD
GENERAL ELECTRIC	10/14/1988	?	BOILER	99	LNB	0.0995	BACT-PSD
SHELL OFFSHORE, INC.	10/25/1989	?	BOILER	48	LNB	0.0996	BACT-PSD
PANDA-ROSEMARY CORP.	9/6/1989	?	(2) BOILER	81	LNB	0.0997	BACT-PSD
SOLAR GAS TURBINE COGEN.	4/3/2000	?	AUXILIARY BOILER	54	NONE INDICATED	0.1000	BACT-PSD
BP CHERRY POINT REFINERY	4/20/2005	?	PROCESS HEATER IHT	13	ULTRA LOW NOX BURNERS	0.1000	BACT-PSD
DRESDEN ENERGY LLC	10/16/2001	?	BOILER	49	NONE INDICATED	0.1000	BACT-PSD
SMITH POCOLA ENERGY PROJECT	8/16/2001	?	(2) AUXILIARY BOILERS	48	DRY LLNB, OPERATES IN PRE-MIX MODE	0.1000	BACT-PSD
KIAMICHI ENERGY FACILITY	5/1/2001	?	AUXILIARY BOILER	28	LNB	0.1000	BACT-PSD
PROCTER & GAMBLE PAPER PRODUCTS COMPANY	2/24/2000	?	(3) BOILERS	90	LNB	0.1000	BACT-PSD
BUCKNELL UNIVERSITY	11/26/1997	?	HEAT RECOVERY BOILER	28	NONE INDICATED	0.1000	BACT-OTHER
TOYOTA MOTOR MANUFACTURING, USA, INC	5/29/1997	?	BOILER	96	NONE INDICATED	0.1000	BACT-PSD
TOYOTA MOTOR CORPORATION SVCS OF N.A.	8/9/1996	?	(6) BOILERS	58	LNB & FUEL SPEC: USE OF NATURAL GAS AS FUEL	0.1000	BACT-PSD
MID-GEORGIA COGEN.	4/3/1996	?	BOILER	60	DRY LNB WITH FGR	0.1000	BACT-PSD
OVERHALL LAUNDRY SERVICE, INC.	5/12/1992	?	BOILER	12	LNB	0.1000	BACT-OTHER
TOYOTA MOTOR MANUFACTURING	6/21/1991	?	BOILER	96	NONE INDICATED	0.1000	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Nitrogen Oxide Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	NO _x EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
NORTHERN CONSOLIDATED POWER	5/3/1991	?	AUXILIARY BOILER	100	NONE INDICATED	0.1000	NSPS
DOW CORNING CORP.	1/7/1991	?	POWER BOILERS	97	NONE INDICATED	0.1000	BACT-PSD
KAISER ALUMINUM & CHEMICAL CORP.	9/24/1986	?	BOILER	17	NONE INDICATED	0.1000	OTHER
INTERNATIONAL PAPER CO.	2/4/1984	?	PACKAGE BOILER	15	AUTOMATIC O ₂ CONTROL	0.1000	BACT-PSD
BOEING COMMERCIAL AIRPLANE-FREDERKSN	4/2/1992	?	(2) BOILERS	26	LNB	0.1000	BACT-OTHER
LOUISIANA LAND AND EXPLORATION COMPANY-LOST CABIN	4/3/1998	?	AUXILIARY BOILER	23	NONE INDICATED	0.1005	OTHER
BAYTOWN CARBON BLACK PLANT	12/31/2002	?	BACK-UP BOILER	13	NONE INDICATED	0.1045	BACT-OTHER
O.H. KRUSE GRAIN AND MILLING	9/19/1996	?	BOILER USED AS A BACKUP	10	NONE INDICATED	0.1060	LAER
DUKE ENERGY DALE, LLC	12/11/2001	?	AUXILIARY BOILER	35	LNB	0.1080	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	10/23/2001	?	BOILER	31	LNB	0.1080	BACT-PSD
GORDONSVILLE ENERGY L. P.	7/30/1993	?	AUXILIARY BOILER	22	LNB	0.1091	NSPS
LAKE CHARLES GASIFICATION FACILITY	6/22/2009	?	GASIFIER STARTUP PREHEATER BURNERS (5)	35	GOOD DESIGN AND PROPER OPERATION	0.1100	BACT-PSD
PSEG WATERFORD ENERGY LLC	3/29/2001	?	AUXILIARY BOILER	93	GAS AS SOLE FUEL, LNB	0.1100	BACT-PSD
TEX-USS	4/16/1981	?	STEAM BOILER	99	LNB	0.1100	BACT-PSD
TEX-USS	4/16/1981	?	STEAM BOILER	99	LNB	0.1100	BACT-PSD
GORDONSVILLE ENERGY L.P.	9/25/1992	?	AUXILIARY BOILER	60	LNB	0.1117	BACT-PSD
NISSAN NORTH AMERICA, INC.	4/2/2001	?	BOILER	35	LNB	0.1200	BACT-PSD
DUKE ENERGY HOT SPRINGS	12/29/2000	?	(2) AUXILIARY BOILERS	44	LOW NOX COMBUSTER & PROPER OPERATION	0.1200	BACT-PSD
NORTHSTAR DEVELOPMENT PROJECT	2/5/1999	NO	WASTE HEAT RECOVERY UNIT 10	53	< 1,000 HR/YR	0.1200	BACT-OTHER
ROCKPORT WORKS	2/13/1997	?	(2) BOILERS BH NO. 2	76	LNB	0.1200	BACT-PSD
SUN REFINING & MARKETING CO.	11/2/1987	?	BOILER	68	LNB	0.1200	OTHER
SHINTECH, INC.	1/5/1981	?	STEAM BOILER	55	LNB	0.1200	BACT-PSD
ATOFINA CHEMICALS INCORPORATED	12/19/2002	NO	(2) STEAM BOILERS	16	LNB	0.1297	OTHER
GENERAL ELECTRIC CO.	9/17/1989	?	BOILER	93	STAGED COMBUSTION AIR & LOW EXCESS AIR	0.1330	BACT-PSD
CNG TRANSMISSION CORPORATION	5/3/1993	?	WATER BOILER	10	NONE INDICATED	0.1373	BACT-PSD
MACSTEEL DIVISION	10/28/1993	?	BOILER	45	LNB	0.1400	BACT-PSD
PORT WASHINGTON GENERATING STATION	10/13/2004	?	NATURAL GAS FIRED AUXILLIARY BOILER	97	COMBUSTION OPTIMIZATION (BASED ON CF DURING OZONE SEASON > 20%)	0.1411	N/A
REYNOLDS METALS CO.	7/7/1989	?	MILL BOILER	29	LNB	0.1417	BACT-PSD
HARRISONBURG RESOURCE RECOVER FACILITY	3/24/2003	?	BOILER NO. 1	43	FGR WITH LNB, CEM SYSTEM, GCP	0.1428	BACT-OTHER
STANLEY FURNITURE	12/1/2002	?	KEWANEE BOILER	27	NONE INDICATED	0.1434	BACT-OTHER
CHOUTEAU POWER PLANT	1/23/2009	?	FUEL GAS HEATER (H ₂ O BATH)	19	NONE INDICATED	0.1436	BACT-PSD
R. R. DONNELLEY PRINTING COMPANY	5/2/1994	?	BOILER	47	NONE INDICATED	0.1461	BACT-PSD
EXXON CO., USA	5/22/1984	?	(3) BOILER	26	DESIGN	0.1700	BACT-PSD
ARCHER DANIELS MIDLAND	5/28/1982	?	BOILER	90	EQUIPMENT DESIGN	0.1700	BACT-PSD
ARKANSAS EASTMAN CO.	7/14/1987	?	BOILER #4	78	NONE INDICATED	0.1705	OTHER
CARGILL INC - SIOUX CITY	6/1/1998	?	BACKUP BOILER	77	NONE INDICATED	0.1766	OTHER
INTERNATIONAL FLAVORS AND FRAGRANCES	6/9/1995	?	BOILER	96	NONE INDICATED	0.1800	RACT
NUCOR STEEL	11/30/1993	?	VACUUM DEGASSER BOILER	34	LNB, STAGED COMBUSTION	0.1900	BACT-PSD
INDECK-YERKES ENERGY SERVICES	6/24/1992	?	AUXILIARY BOILER	99	NONE INDICATED	0.2000	BACT-OTHER
DOW CORNING CORP.	1/7/1991	?	POWER BOILERS	97	NONE INDICATED	0.2000	BACT-PSD
CHEVRON USA, INC.	5/28/1980	?	(6) BOILER	94	DESIGN	0.2000	BACT-PSD
AMOCO PRODUCTION CO.	12/20/1979	?	(2) BOILER	66	DESIGN	0.2000	BACT-PSD
CIG	8/25/1976	?	(2) BOILER	48	DESIGN	0.2000	OTHER
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	7/9/1998	?	NEBRASKA BOILER	28	NONE INDICATED	0.2071	BACT-PSD
PPG INDUSTRIES, INC.	5/27/1981	?	(2) BOILER	21	COMBUSTION CONTROL	0.2294	BACT-PSD
WALLULA POWER PLANT	1/3/2003	?	AUXILIARY BOILER	55	LNB PLUS FGR (<4,000 HR/YR)	0.2300	BACT-OTHER
WYCON CHEMICALS	7/27/1984	?	UREA PLT BOILER	26	NONE INDICATED	0.2300	OTHER
MICHELIN NORTH AMERICA, INC.	8/14/1996	?	(2) BOILERS	95	LNB AND FGR	0.2526	BACT-PSD
QUAD/GRAPHICS, INC.	9/14/1995	?	(2) BOILERS	43	FUEL SPEC	0.3163	BACT-PSD
KAMINE/BESICORP CORNING L.P.	11/5/1992	?	(3) AUXILIARY BOILERS	34	LNB, FGR	0.3200	BACT-OTHER
HYUNDAI MOTOR MANUFACTURING ALABAMA, LLC	11/22/2004	?	BOILER, NATURAL GAS (2)	25	LOW NOX BURNERS	0.3500	BACT-PSD
WELLTON MOHAWK GENERATINGSTATION	12/1/2004	?	AUXILIARY BOILER	38	LOW NOX BURNERS	0.3700	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	8/10/2003	NO	AUXILIARY BOILER	38	OPERATION LIMITED TO < 480 HR/YR	0.3700	BACT-OTHER
ROCHE VITAMINS	2/5/1999	?	BOILER 1	84	NONE INDICATED	0.4005	BACT-PSD
PORT HUDSON OPERATIONS	1/25/2002	?	POWER BOILER NO. 2	66	LNB	0.9365	BACT-OTHER

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
WOODBIDGE ENERGY CENTER	7/25/2012	NO	Commercial/Institutional size boilers less than 100 MM	91.6	NATURAL GAS	0.0015	LAER
CPV ST CHARLES	11/12/2008	?	BOILER	93	NONE INDICATED	0.0020	BACT
ASTORIA ENERGY, LLC	12/5/2001	NO	AUXILIARY BOILER	99	NATURAL GAS ONLY (< 900 HR/YR)	0.0020	LAER
INTERNATIONAL PAPER CO.	2/4/1984	NO	PACKAGE BOILER	15	NONE INDICATED	0.0020	BACT-PSD
ROCHE VITAMINS	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GENERATING UNIT < 500 HR/YR	0.0024	BACT-PSD
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC001, CC002, AND CC003 AT CI	42	LIMITING THE FUEL TO NATURAL GAS ONLY AND GCP	0.0024	BACT
NUCOR STEEL	11/21/2003	YES	(2) COLD MILL BOILERS	34	COMPLIANCE BY USING NATURAL GAS	0.0026	BACT-PSD
PANDA-ROSEMARY CORP.	9/6/1989	YES	(2) BOILER	81	COMBUSTION CONTROL	0.0027	BACT-PSD
NUCOR STEEL	11/30/1993	NO	VACUUM DEGASSER BOILER	34	NONE INDICATED	0.0027	BACT-PSD
CNG TRANSMISSION CORPORATION	5/3/1993	NO	WATER BOILER	10	NONE INDICATED	0.0027	BACT-PSD
BMW MANUFACTURING CORP.	1/7/1994	?	(3) AUXILIARY BOILERS	60	NONE INDICATED	0.0028	LAER
SUWANNEE MILL	9/5/2012	?	Four(4) Natural Gas Boilers - 46 MMBtu/hour	46	GCP	0.0030	BACT
FLOPAM INC.	6/14/2010	NO	BOILERS	25	COOD EQUIPMENT DESIGN AND GCP	0.0030	BACT
FAIRLESS WORKS ENERGY CENTER (FMR. SWEC-FALLS TOWNSHIP)	8/7/2001	YES	No boilers listed. Only combustion turbines	41	NATURAL GAS ONLY	0.0030	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	8/10/2003	NO	AUXILIARY BOILER	38	OPERATION LIMITED TO < 480 HR/YR	0.0033	BACT-OTHER
MERCK - RAHWAY PLANT	1/14/1997	YES	(3) BOILERS	100	NONE INDICATED	0.0033	BACT-PSD
KAMINE/BESICORP SYRACUSE LP	12/10/1994	?	(3) UTILITY BOILERS	33	NONE INDICATED	0.0033	BACT-OTHER
STANLEY FURNITURE	12/1/2002	?	KEWANEE BOILER	27	NONE INDICATED	0.0038	BACT-OTHER
ARKANSAS EASTMAN CO.	7/14/1987	?	BOILER #4	78	NONE INDICATED	0.0038	OTHER
RINCON POWER PLANT	3/24/2003	?	AUXILIARY BOILER	83	OPERATION LIMITED TO < 1,000 HR/YR	0.0040	BACT-OTHER
TENASKA TALLADEGA GENERATING STATION	10/3/2001	?	AUXILIARY BOILER	30	EFFICIENT COMBUSTION (< 1,000 HR/YR)	0.0040	BACT-PSD
VA POWER - POSSUM POINT	11/18/2002	?	(2) AUXILIARY BOILER	99	GCP	0.0040	BACT-OTHER
STAFFORD RAILSTEEL CORPORATION	8/17/1993	NO	VTD BOILER	47	FUEL SPEC: USE OF NATURAL GAS	0.0041	OTHER
HAWKEYE GENERATING, LLC	7/23/2002	?	AUXILIARY BOILER	49	GCP	0.0050	BACT-PSD
THUNDERBIRD POWER PLT	5/17/2001	?	AUXILIARY BOILER	20	NONE INDICATED	0.0050	BACT-PSD
MID-GEORGIA COGEN.	4/3/1996	?	BOILER	60	COMPLETE COMBUSTION	0.0050	BACT-PSD
KAISER ALUMINUM & CHEMICAL CORP.	9/24/1986	NO	BOILER	17	NONE INDICATED	0.0050	OTHER
CPV CUNNINGHAM CREEK	9/6/2002	?	AUXILIARY BOILER	80	GCP	0.0053	BACT-PSD
PRO TEC COATING COMPANY	6/20/2001	NO	(4) HOT WATER BOILERS	21	NONE INDICATED	0.0053	SIP
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT IP04	17	OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECS	0.0053	BACT
CHOUTEAU POWER PLANT	1/23/2009	?	FUEL GAS HEATER (H2O BATH)	19	NONE INDICATED	0.0053	BACT
HARRISONBURG RESOURCE RECOVER FACILITY	3/24/2003	?	BOILER NO. 1	43	GCP	0.0053	NSPS
TITAN TIRE CORPORATION OF BRYAN	6/5/2008	?	BOILER	50	NONE INDICATED	0.0054	BACT
SOLAR GAS TURBINE COGEN.	4/3/2000	?	AUXILIARY BOILER	54	OPERATION LIMITED TO < 175 HR/YR	0.0054	NSPS
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT FL01	14	FLUE GAS RECIRCULATION	0.0054	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA01	17	FLUE GAS RECIRCULATION	0.0054	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP26	24	OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECS	0.0054	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA03	31	OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECS	0.0054	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP03	33	OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECS	0.0054	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP01	35	OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECS	0.0054	BACT'
EMERY GENERATING STATION	12/20/2002	?	AUXILIARY BOILER	68	CATALYTIC OXIDATION (OPER < 6,000 HR/YR)	0.0054	BACT-OTHER
BARTON SHOALS ENERGY	7/12/2002	?	(2) AUXILIARY BOILERS	40	GCP	0.0054	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	12/7/2001	?	AUXILIARY BOILER	21	GCP	0.0054	BACT-PSD
DUKE ENERGY, VIGO LLC	6/6/2001	?	(2) AUXILIARY BOILERS	46	GOOD COMBUSTION (< 500 HR/YR)	0.0054	BACT-PSD
MIRANT SUGAR CREEK, LLC	5/9/2001	?	(2) AUXILIARY BOILERS	35	GOOD COMBUSTION (< 5,000 HR/YR)	0.0054	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	10/1/1999	?	AUXILIARY BOILER	24	BOILER DESIGN / GOOD OPERATING PRACTICES	0.0054	BACT-PSD
GENPOWER EARLEYS, LLC	1/9/2002	?	AUXILIARY BOILER	83	GCP AND DESIGN (< 1,000 HR/YR)	0.0054	BACT-PSD
PRYOR PLANT CHEMICAL	2/23/2009	?	NITRIC ACID PREHEATERS #1, #3, AND #4	20	NONE INDICATED	0.0055	BACT
MGM MIRAGE	11/30/2009	?	BOILERS - UNITS CC026, CC027 AND CC028 AT CI	44	LIMITING THE FUEL TO NATURAL GAS ONLY AND GCP	0.0055	BACT
BLUEWATER PROJECT	7/22/2004	NO	PICKLE LINE BOILER	22	NATURAL GAS COMBUSTION ONLY	0.0055	BACT-PSD
BLUEWATER PROJECT	7/22/2004	NO	VACUUM DEGASSER BOILER	51	NATURAL GAS COMBUSTION ONLY	0.0055	BACT-PSD
MUSTANG ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILER	31	GCP AND DESIGN	0.0055	BACT-PSD
HORSESHOE ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILERS	31	GCP AND DESIGN	0.0055	BACT-PSD
SMITH POCOLA ENERGY PROJECT	8/16/2001	?	(2) AUXILIARY BOILERS	48	COMBUSTION CONTROL	0.0055	BACT-PSD
FREMONT ENERGY CENTER, LLC	8/9/2001	YES	AUXILIARY BOILER	80	NONE INDICATED	0.0055	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Volatile Organic Compound Emissions

FACILITY	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
KIAMICHI ENERGY FACILITY	5/1/2001	?	AUXILIARY BOILER	28	GCP AND DESIGN	0.0055	BACT-PSD
LAWRENCE ENERGY	9/24/2002	YES	BOILER	99	NONE INDICATED	0.0055	BACT-PSD
ATOFINA CHEMICALS INCORPORATED	12/19/2002	NO	(2) STEAM BOILERS	16	NONE INDICATED	0.0057	OTHER
LA PORTE POLYPROPYLENE PLANT	11/5/2001	NO	PACKAGE BOILER BO-4	60	NONE INDICATED	0.0058	OTHER
WAUPACA FOUNDRY - PLANT 5	1/19/1996	?	BOILERS	94	NONE INDICATED	0.0059	BACT-PSD
DRESDEN ENERGY LLC	10/16/2001	YES	BOILER	49	OPERATION LIMITED TO < 800 HR/YR	0.0059	BACT-PSD
WARREN COUNTY FACILITY	1/14/2008	?	AUXILIARY BOILER - SCENARIO 3	62	CEM SYSTEM	0.0060	BACT
BAYTOWN CARBON BLACK PLANT	12/31/2002	?	BACK-UP BOILER	13	NONE INDICATED	0.0060	BACT-OTHER
WARREN COUNTY FACILITY	1/14/2008	?	AUXILIARY BOILER - SCENARIO 2	97	CEM SYSTEM	0.0060	BACT
FAIRBAULT ENERGY PARK	7/15/2004	NO	BOILER	40	GOOD COMBUSTION	0.0060	BACT-PSD
GENPOWER KELLEY LLC	1/12/2001	?	BOILER	83	EFFICIENT COMBUSTION (< 1,000 HR/YR)	0.0060	BACT-PSD
NELLIS AIR FORCE BASE	2/26/2008	?	BOILERS/HEATERS - NATURAL GAS-FIRED		FLUE GAS RECIRCULATION	0.0062	BACT
PRYOR PLANT CHEMICAL	2/23/2009	?	BOILERS #1 AND #2	80	NONE INDICATED	0.0063	BACT
R. R. DONNELLEY PRINTING COMPANY	5/2/1994	YES	BOILER	47	NONE INDICATED	0.0064	BACT-PSD
COCA COLA	11/23/1999	YES	SCOTCH MARINE CUSTOM FIRE-TUBE BOILER	32	NONE INDICATED	0.0067	BACT-OTHER
CENTRAL SOYA COMPANY INC.	11/29/2001	YES	BOILER	91	NONE INDICATED	0.0071	BACT-PSD
REDBUD POWER PLT	5/6/2002	?	AUXILIARY BOILER	93	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.0075	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	9/29/1999	?	AUXILIARY BOILER	96	OPERATION LIMITED TO < 250 HR/YR	0.0080	LAER
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	3/10/2000	YES	AUXILIARY BOILER	96	OPERATION LIMITED TO < 500 HR/YR	0.0080	BACT-PSD
SCHERING CORPORATION	3/7/1996	?	BOILERS 4&5	94	NONE INDICATED	0.0084	BACT-PSD
INDELK ENERGY SERVICES OF OTSEGO	3/16/1993	?	BOILER	99	STATE-OF-THE-ART COMBUSTION CONTROLS	0.0100	BACT-OTHER
DUKE ENERGY AUTAUGA, LLC	10/23/2001	?	BOILER	31	EFFICIENT COMBUSTION (< 2,500 HR/YR)	0.0104	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	10/5/2001	?	AUXILIARY BOILER	35	CLEAN FUEL, GCP	0.0110	BACT-PSD
JACKSON COUNTY POWER, LLC	12/27/2001	YES	AUXILIARY BOILER	76	OPERATION LIMITED TO < 3,000 HR/YR	0.0121	BACT-PSD
DUKE ENERGY WYTHE, LLC	2/5/2004	NO	AUXILIARY BOILER	37	NONE INDICATED	0.0137	BACT-PSD
DUKE ENERGY DALE, LLC	12/11/2001	?	AUXILIARY BOILER	35	GOOD COMBUSTION	0.0140	BACT-PSD
PSEG WATERFORD ENERGY LLC	3/29/2001	YES	AUXILIARY BOILER	93	OPERATION LIMITED TO < 1,000 HR/YR	0.0140	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	3/21/2003	?	AUXILIARY BOILER	33	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.0152	BACT-PSD
CLOVIS ENERGY FACILITY	6/27/2002	?	(2) AUXILIARY BOILERS	33	CLEAN FUELS, GCP	0.0152	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	1/18/2001	YES	BOILER	47	NONE INDICATED	0.0152	BACT-PSD
DEMING ENERGY FACILITY	12/29/2000	?	AUXILIARY BOILER	44	GOOD COMBUSTION DESIGN	0.0159	BACT-PSD
MURRAY ENERGY FACILITY	10/23/2002	NO	AUXILIARY BOILER	36	GCP (< 6,000 HR/YR)	0.0160	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	4/1/2002	?	AUXILIARY BOILER	33	GOOD OPERATING PRACTICE	0.0160	BACT-PSD
WEBERS FALLS ENERGY FACILITY	10/22/2001	?	AUXILIARY BOILER	30	NONE INDICATED (< 3,000 HR/YR)	0.0160	BACT-PSD
DUKE ENERGY HOT SPRINGS	12/29/2000	?	(2) AUXILIARY BOILERS	44	CLEAN FUELS, PROPER COMBUSTION	0.0160	BACT-PSD
CABOT POWER CORPORATION	5/7/2000	?	AUXILIARY BOILER	27	COMB CONTROLS, OXIDATION CATALYST (< 500 HR/YR)	0.0160	BACT-PSD
CHOUTEAU POWER PLANT	3/24/1999	YES	AUXILIARY BOILER	27	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.0160	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	10/23/2001	?	AUXILIARY BOILER	29	NONE INDICATED	0.0160	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEF I AND II)	11/6/2003	?	(2) AUXILIARY BOILERS	33	OPERATION LIMITED TO < 6,000 HR/YR	0.0161	BACT-PSD
CHOUTEAU POWER PLANT	1/23/2009	?	AUXILIARY BOILER	34	GOOD COMBUSTION	0.0161	BACT
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/13/2001	YES	(2) BOILER	37	NONE INDICATED	0.0161	BACT-PSD
CASCO BAY ENERGY CO	7/13/1998	?	AUXILIARY BOILER	21	ADEQUATE FUEL RESIDENCE TIME / PROPER COMB TEMP	0.0162	BACT-PSD
GENOVA ARKANSAS I, LLC	8/23/2002	YES	AUXILIARY BOILER	33	GCP	0.0180	BACT-PSD
GENOVA OK I POWER PROJECT	6/13/2002	?	AUXILIARY BOILER	33	BOILER DESIGN AND GCP	0.0182	BACT-PSD
GORDONSVILLE ENERGY L. P.	7/30/1993	?	AUXILIARY BOILER	22	GCP	0.0182	NSPS
QUAD GRAPHICS OKC FAC	2/3/2004	?	BOILERS	27	MAINT/OPERATION PER MFGR'S SPECS (< 336 H/YR)	0.0190	BACT-PSD
ECHO SPRINGS GAS PLANT	4/1/2009	?	HOT OIL HEATER S38	84	GOOD COMBUSTION PRACTICES	0.0200	BACT
INDECK-ELWOOD, LLC	10/10/2003	NO	BOILER	99	OPERATION LIMITED TO < 2,500 HR/YR	0.0200	BACT-PSD
BLOUNT MEGAWATT FACILITY	2/5/2001	?	AUXILIARY BOILER	40	GCP	0.0200	BACT-PSD
WESTBROOK POWER LLC	12/4/1998	?	AUXILIARY BOILER	25	OPERATION LIMITED TO < 1,000 HR/YR	0.0200	LAER
GORDONSVILLE ENERGY L.P.	9/25/1992	?	AUXILIARY BOILER	60	GCP	0.0233	BACT-PSD
QUAD GRAPHICS OKC FACILITY	8/21/2001	?	BOILERS	63	GOOD COMBUSTION/MAINTENANCE	0.0283	BACT-PSD
PROCTOR AND GAMBLE PAPER PRODUCTS CO (CHARMIN)	5/31/1995	?	BOILERS #2 AND #4	70	REROUTING OF PULP PLANT EMISSIONS TO BOILERS 2 AND 4	0.0284	RACT
VENTURA COASTAL CORP.	11/17/1988	?	CLEAVER-BROOKS MODEL CB-400 BOILER	27	NONE INDICATED	0.0761	OTHER
BOISE CASCADE CORPORATION - YAKIMA COMPLEX	11/16/1996	?	BOILERS	27	FUEL SPEC: NATURAL GAS	0.0792	BACT-PSD

GCP = GOOD COMBUSTION PRACTICES

Appendix G **Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)** **Carbon Monoxide Emissions**

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	CO EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
UNIVERSITY OF CALIFORNIA IRVINE MEDICAL CENTER	1/16/1992	?	ZURN/KEYSTONE WATERTUBE BOILER	49	SIX ALZETA CORPORATION CERAMIC FIBER RADIANT LNB	0.0068	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP01 (for casino)	35	OPERATE IN ACCORDANCE W/ MFR'S SPECIFICATION	0.0073	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT IP04 (for casino)	17	OPERATE IN ACCORDANCE W/ MFR'S SPECIFICATION	0.0074	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP03 (for casino)	33	OPERATE IN ACCORDANCE W/ MFR'S SPECIFICATION	0.0075	BACT-PSD
PRO TEC COATING COMPANY	2/15/2001	?	(4) BOILERS	21	NONE INDICATED	0.0110	SIP
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC026, CC027 AND CC028 AT CITY CENTER	44	GCP INCLUDING THE USE OF PROPER AIR TO FUEL RATIO	0.0148	BACT-PSD
STAFFORD RAILSTEEL CORPORATION	8/17/1993	?	VTD BOILER	47	FUEL SPEC: USE OF NATURAL GAS & LNB	0.0151	BACT-PSD
EMERY GENERATING STATION	12/20/2002	?	AUXILIARY BOILER	68	CATALYTIC OXIDATION	0.0164	BACT-OTHER
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA03	31	OPERATE IN ACCORDANCE W/ MFR'S SPECIFICATION	0.0172	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA01	17	FLUE GAS RECIRCULATION	0.0173	BACT-PSD
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC001, CC002, AND CC003 AT CITY CENTER	42	GCP AND LIMITING THE FUEL TO NATURAL GAS ONLY	0.0184	BACT-PSD
CPV ST CHARLES	11/12/2008	?	BOILER	93	NONE INDICATED	0.0200	BACT-PSD
ASTORIA ENERGY, LLC	12/5/2001	YES	AUXILIARY BOILER	99	NATURAL GAS ONLY	0.0200	LAER
KAISER ALUMINUM & CHEMICAL CORP.	9/24/1986	?	BOILER	17	NONE INDICATED	0.0200	OTHER
CHOUTEAU POWER PLANT	1/23/2009	NO	AUXILIARY BOILER	34	GOOD COMBUSTION	0.1499	UNKNOWN
INTERNATIONAL PAPER CO.	2/4/1984	?	PACKAGE BOILER	15	NONE INDICATED	0.0300	BACT-PSD
NUCOR STEEL	11/30/1993	?	VACUUM DEGASSER BOILER	34	NONE INDICATED	0.0330	BACT-PSD
PANDA-ROSEMARY CORP.	9/6/1989	?	(2) BOILER	81	COMBUSTION CONTROL	0.0332	BACT-PSD
CNG TRANSMISSION CORPORATION	5/3/1993	?	WATER BOILER	10	NONE INDICATED	0.0343	BACT-PSD
KLAMATH GENERATION, LLC	3/12/2003	?	AUXILIARY BOILER	59	NONE INDICATED	0.0350	BACT-PSD
ROCHE VITAMINS	2/5/1999	?	BOILER 1	84	NONE INDICATED	0.0355	BACT-PSD
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	7/9/1998	?	NEBRASKA BOILER	28	NONE INDICATED	0.0357	BACT-PSD
R. R. DONNELLEY PRINTING COMPANY	5/2/1994	?	BOILER	47	NONE INDICATED	0.0360	BACT-PSD
VIRGINIA ELECTRIC AND POWER COMPANY	12/17/2010	NO	AUXILIARY BOILER - SCENARIO 3	62	CEM SYSTEM	0.0360	BACT-PSD
			AUXILIARY BOILER - SCENARIO 2	97	CEM SYSTEM	0.0360	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	1/4/2007	YES	COMMERCIAL/INSTITUTIONAL-SIZE BOILERS	35	GOOD COMBUSTION DESIGN	0.0360	BACT-PSD
CAITHNESS BELLPORT ENERGY CENTER	5/10/2006	YES	AUXILIARY BOILER	29	GOOD COMBUSTION PRACTICES	0.0360	BACT-PSD
WPS - WESTON PLANT	8/27/2004	?	NATURAL GAS FIRED BOILER	46	BOILER DESIGN	0.0361	N/A
MERCK - RAHWAY PLANT	1/14/1997	?	(3) BOILERS	100	NONE INDICATED	0.0362	BACT-PSD
CASCO BAY ENERGY CO	7/13/1998	?	AUXILIARY BOILER	21	ADEQUATE FUEL RESIDENCE TIME & PROPER COMB. TEMP	0.0362	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/13/2001	?	(2) BOILER	37	NONE INDICATED	0.0369	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	12/28/2004	?	BOILERS (2)	31	NONE INDICATED	0.0369	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT CP26	24	OPERATE IN ACCORDANCE W/ MFR'S SPECIFICATION	0.0370	BACT-PSD
NELLIS AIR FORCE BASE	2/26/2008	?	BOILERS/HEATERS - NATURAL GAS-FIRED		FLUE GAS RECIRCULATION	0.0370	OTHER
COB ENERGY FACILITY, LLC	12/30/2003	?	(2) AUXILIARY BOILERS	80	GOOD COMBUSTION	0.0370	BACT-PSD
MURRAY ENERGY FACILITY	10/23/2002	NO	AUXILIARY BOILER	36	GCP (< 6,000 HR/YR)	0.0370	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	10/23/2001	?	AUXILIARY BOILER	29	NONE INDICATED	0.0370	BACT-PSD
SWEC-FALLS TOWNSHIP	8/7/2001	?	AUXILIARY BOILER	41	NATURAL GAS ONLY	0.0370	BACT-PSD
LACORR PACKAGING	7/12/2000	?	CLEAVER BROOKS MODEL CB-LE 500 BOILER	21	NONE INDICATED	0.0370	LAER
LIBERTY CONTAINER CO	3/17/2000	?	CLEAVER BROOKS CB (LE) 700-400	16	NONE INDICATED	0.0370	LAER
NATION WIDE BOILER	3/15/2000	?	PORTABLE BOILER	29	GCP	0.0370	LAER
SANTA MONICA - UCLA MEDICAL CENTER	1/28/2000	?	CLEAVER BROOKS MODEL CE (LE) 200-400 FIRE-TUBE BOILER	16	FGR	0.0370	LAER
CHILDREN'S HOSPITAL LOS ANGELES	12/2/1999	?	BOILER	34	GCP	0.0370	LAER
CHILDREN'S HOSPITAL LOS ANGELES	12/2/1999	?	(2) BOILERS	24	GCP	0.0370	LAER
COCA COLA	11/23/1999	?	SCOTCH MARINE CUSTOM FIRE-TUBE BOILER	32	GCP	0.0370	BACT-PSD
FLOPAM INC.	6/14/2010	NO	Boilers	25	GOOD EQUIPMENT DESIGN AND GCP	0.0371	BACT-PSD
ARKANSAS EASTMAN CO.	7/14/1987	?	BOILER #4	78	NONE INDICATED	0.0372	OTHER
WOODBRIIDGE ENERGY CENTER	7/25/2012	NO	Commercial/Institutional size boilers less than 100 MMBtu/hr	92	Use of natural gas and good combustion practices	0.0376	BACT-PSD
INDECK-YERKES ENERGY SERVICES	6/24/1992	?	AUXILIARY BOILER	99	NONE INDICATED	0.0380	BACT-OTHER
KAMINE/BESICORP SYRACUSE LP	12/10/1994	?	(3) UTILITY BOILERS	33	NONE INDICATED	0.0382	BACT-OTHER
SUWANNEE MILL	9/5/2012	?	Four(4) Natural Gas Boilers - 46 MMBtu/hour	46	Good Combustion Practice	0.0390	BACT-PSD
REPUBLIC STEEL	7/18/2012	?	Steam Boiler	65	Proper burner design and good combustion practices	0.0400	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-3 NEW NO. 4 CTU VACUUM HEATER	45	ULTRA-LOW NOX BURNERS; GCP	0.0400	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	TB-1, TB-2, TB-3	95	ULTRA-LOW NOX BURNERS AND GCP	0.0400	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	TB-1 Leased Boiler No. 1	95	GCP	0.0400	BACT-PSD

Appendix G **Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)** **Carbon Monoxide Emissions**

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	CO EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/2007	NO	3 NATURAL GAS-FIRED BOILERS WITH ULNB & EGR (537-539)	65	NONE INDICATED	0.0400	BACT-PSD
GENOVA ARKANSAS I, LLC	8/23/2002	?	AUXILIARY BOILER	33	GCP	0.0400	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-5 NEW NO. 1 CTU TAR STRIPPER HEATER	98	ULTRA-LOW NOX BURNERS; GCP	0.0400	BACT-PSD
PONCA CITY REFINERY	2/9/2009	?	NH-4 NEW NO. 4 CTU CRUDE HEATER	125	ULTRA-LOW NOX BURNERS; GCP	0.0400	BACT-PSD
SHINTECH PLAQUEMINE PLANT 2	7/10/2008	NO	EQT122-EQT125 - FOUR VCM CRACKING FURNACES	90	GOOD COMBUSTION PRACTICES	0.0460	BACT-PSD
MID-GEORGIA COGEN.	4/3/1996	?	BOILER	60	COMPLETE COMBUSTION	0.0500	BACT-PSD
LAKE CHARLES GASIFICATION FACILITY	6/22/2009	?	GASIFIER STARTUP PREHEATER BURNERS (5)	35	GOOD DESIGN AND PROPER OPERATION	0.0560	BACT-PSD
AIR LIQUIDE AMERICA CORPORATION	2/13/1998	?	BOILER NO. 1	95	GOOD DESIGN, PROPER OPER. PRACTICES & 2% EXCESS O2	0.0600	BACT-PSD
NUCOR DECATUR LLC	6/12/2007	NO	VACUUM DEGASSER BOILER	95	NONE INDICATED	0.0610	BACT-PSD
NUCOR STEEL	11/21/2003	?	(2) BOILER	34	GCP, NATURAL GAS	0.0610	BACT-PSD
QUAD GRAPHICS OKC FACILITY	8/21/2001	?	BOILERS	63	GOOD COMBUSTION/MAINTENANCE	0.0699	BACT-PSD
REDBUD POWER PLT	5/6/2002	?	AUXILIARY BOILER	93	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.0700	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT FL01	14	FLUE GAS RECIRCULATION	0.0705	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	NO	NATURAL GAS BOILER (292.5 MMBTU/H)	293	ULNB WITH FGR AND GOOD COMBUSTION PRACTICES	0.0720	BACT-PSD
HENRY COUNTY POWER	11/21/2002	?	(2) AUXILIARY BOILER	40	GOOD COMBUSTION AND DESIGN, CLEAN FUEL	0.0725	BACT-PSD
HAWKEYE GENERATING, LLC	7/23/2002	?	AUXILIARY BOILER	49	GCP	0.0730	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	10/3/2001	?	AUXILIARY BOILER	30	EFFICIENT COMBUSTION	0.0730	BACT-PSD
BUMBLE BEE SEAFOODS, INC.	3/10/2000	?	SUPERIOR MOHAWK MODEL 4X-2007-S150 FIRE TUBE BOILER	16	NONE INDICATED	0.0740	LAER
HI-COUNTRY	12/16/1999	YES	FIRE TUBE BOILER	21	GCP	0.0740	LAER
SCHERING CORPORATION	3/7/1996	?	BOILERS 4&5	94	NONE INDICATED	0.0774	BACT-PSD
MEDICINE BOW IGL PLANT	3/4/2009	?	AUXILIARY BOILER	66	GOOD COMBUSTION PRACTICES	0.0800	BACT-PSD
MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	NO	SMALL BOILERS & HEATERS(<100 MMBTU/H)	99	NONE INDICATED	0.0800	BACT-PSD
PROGRESS BARTOW POWER PLANT	1/26/2007	NO	ONE GASEOUS-FUELED 99 MMTU/HR AUXILIARY BOILER	99	NONE INDICATED	0.0800	BACT-PSD
FPL WEST COUNTY ENERGY CENTER	1/10/2007	NO	TWO 99.8 MMBTU/HR GAS-FUELED AUXILIARY BOILERS	100	NONE INDICATED	0.0800	BACT-PSD
CRESCENT CITY POWER	6/6/2005	?	FUEL GAS HEATERS (3)	19	GOOD COMBUSTION PRACTICES	0.0800	BACT-PSD
WELLTON MOHAWK GENERATINGSTATION	12/1/2004	?	AUXILIARY BOILER	38	NONE INDICATED	0.0800	BACT-PSD
OHIO RIVER PLANT	6/9/2004	?	BOILER, NATURAL GAS 39.00 MMBTU	44	NONE INDICATED	0.0800	BACT-PSD
COPPER MOUNTAIN POWER	5/14/2004	?	AUXILIARY BOILER	60	EFF. COMB. DESIGN, 10:1TURNDOWN CAPABILITY & LNB	0.0800	LAER
DOME VALLEY ENERGY PARTNERS, LLC	8/10/2003	NO	AUXILIARY BOILER	38	OPERATION LIMITED TO < 480 HR/YR	0.0800	BACT-OTHER
BLOUNT MEGAWATT FACILITY	2/5/2001	?	AUXILIARY BOILER	40	GCP	0.0800	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	3/10/2000	YES	AUXILIARY BOILER	96	OPERATION LIMITED TO < 500 HR/YR	0.0800	BACT-PSD
PORT WASHINGTON GENERATING STATION	10/13/2004	?	NATURAL GAS FIRED AUXILLIARY BOILER	97	NATURAL GAS FUEL, GOOD COMBUSTION PRACTICES	0.0800	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	9/29/1999	?	AUXILIARY BOILER	96	OXIDATION CATALYST	0.0802	BACT-PSD
CPV CUNNINGHAM CREEK	9/6/2002	?	AUXILIARY BOILER	80	GCP	0.0803	BACT-PSD
LA PORTE POLYPROPYLENE PLANT	11/5/2001	NO	PACKAGE BOILER BO-4	60	NONE INDICATED	0.0807	OTHER
GORDONSVILLE ENERGY L. P.	7/30/1993	?	AUXILIARY BOILER	22	GCP	0.0818	NSPS
BARTON SHOALS ENERGY	7/12/2002	?	(2) AUXILIARY BOILERS	40	GCP	0.0820	BACT-PSD
GENOVA OK I POWER PROJECT	6/13/2002	?	AUXILIARY BOILER	33	GCP	0.0820	BACT-PSD
MUSTANG ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILER	31	GCP AND DESIGN	0.0820	BACT-PSD
HORSESHOE ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILERS	31	GCP AND DESIGN	0.0820	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	12/7/2001	?	AUXILIARY BOILER	21	GCP	0.0820	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	10/5/2001	?	AUXILIARY BOILER	35	CLEAN FUEL, GCP	0.0820	BACT-PSD
DUKE ENERGY, VIGO LLC	6/6/2001	?	(2) AUXILIARY BOILERS	46	GOOD COMBUSTION	0.0820	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	10/1/1999	?	AUXILIARY BOILER	24	BOILER DESIGN & GOOD OPERATING PRACTICES	0.0820	BACT-PSD
J & L SPECIALTY STEEL, INC.	1/13/2003	?	DRAP LINE BOILER	34	NONE INDICATED	0.0821	BACT-OTHER
TITAN TIRE CORPORATION OF BRYAN	6/5/2008	?	BOILER	50	NONE INDICATED	0.0823	BACT-PSD
SOLAR GAS TURBINE COGEN.	4/3/2000	?	AUXILIARY BOILER	54	NONE INDICATED	0.0824	NSPS
HARRISONBURG RESOURCE RECOVER FACILITY	3/24/2003	?	BOILER NO. 1	43	CEM SYSTEM AND GCP	0.0824	NSPS
GENPOWER EARLEYS, LLC	1/9/2002	?	AUXILIARY BOILER	83	GCP AND DESIGN	0.0824	BACT-PSD
PRYOR PLANT CHEMICAL	2/23/2009	?	BOILERS #1 AND #2	80	GOOD COMBUSTION PRACTICES	0.0825	BACT-PSD
BAYTOWN CARBON BLACK PLANT	12/31/2002	?	BACK-UP BOILER	13	NONE INDICATED	0.0828	BACT-OTHER
WALLULA POWER PLANT	1/3/2003	?	AUXILIARY BOILER	55	<4,000 HR/YR	0.0830	BACT-OTHER
STANLEY FURNITURE	12/1/2002	?	KEWANEE BOILER	27	NONE INDICATED	0.0830	BACT-OTHER
GORDONSVILLE ENERGY L.P.	9/25/1992	?	AUXILIARY BOILER	60	GCP	0.0833	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	NO	BOILER -2 NATURAL GAS	20	NONE INDICATED	0.0833	BACT-PSD
FAIRBAULT ENERGY PARK	7/15/2004	?	BOILER, NATURAL GAS (1)	40	GOOD COMBUSTION.	0.0840	BACT-PSD
FAIRBAULT ENERGY PARK	7/15/2004	NO	BOILER	40	GOOD COMBUSTION	0.0840	BACT-PSD
HONDA MANUFACTURING OF ALABAMA, LLC	10/18/2002	?	(3) BOILERS	30	CLEAN FUEL, GCP	0.0840	BACT-PSD
GREATER DES MOINES ENERGY CENTER	4/10/2002	?	AUXILIARY BOILER	68	NONE INDICATED	0.0840	BACT-OTHER
SMITH POCOLA ENERGY PROJECT	8/16/2001	?	(2) AUXILIARY BOILERS	48	COMBUSTION CONTROL	0.0840	BACT-PSD
KIAMICHI ENERGY FACILITY	5/1/2001	?	AUXILIARY BOILER	28	GOOD OPERATING PRACTICES AND DESIGN	0.0840	BACT-PSD

Appendix G **Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)** **Carbon Monoxide Emissions**

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	CO EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
LAWRENCE ENERGY	9/24/2002	?	BOILER	99	NONE INDICATED	0.0840	BACT-PSD
DRESDEN ENERGY LLC	10/16/2001	?	BOILER	49	NONE INDICATED	0.0841	BACT-PSD
ATOFINA CHEMICALS INCORPORATED	12/19/2002	NO	(2) STEAM BOILERS	16	NONE INDICATED	0.0842	OTHER
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	3/21/2003	?	AUXILIARY BOILER	33	GCP	0.0848	BACT-PSD
WEBERS FALLS ENERGY FACILITY	10/22/2001	?	AUXILIARY BOILER	30	BOILER DESIGN & GOOD OPER. PRACTICE (< 3,000 HR/YR)	0.0850	BACT-PSD
GENPOWER KELLEY LLC	1/12/2001	?	BOILER	83	EFFICIENT COMBUSTION	0.0850	BACT-PSD
DARLING INTERNATIONAL	12/30/1996	?	NEBRASKA BOILER MODEL NS-B-40	31	GOOD COMBUSTION	0.0890	LAER
HYUNDAI MOTOR MANUFACTURING OF ALABAMA,LLC	3/23/2004	?	BOILERS, NATURAL GAS (3)	50	CLEAN FUEL	0.0900	BACT-PSD
OHIO RIVER PLANT	6/9/2004	NO	BOILER	39	NONE INDICATED	0.0900	BACT-PSD
HYUNDAI MOTOR MANUFACTURING OF ALABAMA, LLC	3/23/2004	?	(3) BOILERS	50	CLEAN FUEL	0.0900	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	BOILER, NO. 9	95	NONE INDICATED	0.0900	BACT-PSD
AMERICAN SODA, LLP, PARACHUTE FACILITY	5/6/1999	?	INDUSTRIAL BOILER	81	GOOD COMBUSTION MANAGEMENT	0.0900	BACT-PSD
AMERICAN SODA, LLP, PINEANCE FACILITY	5/6/1999	?	TEST MINE HOT WATER BOILER NO.2	51	GOOD COMBUSTION	0.0900	BACT-PSD
JACKSON COUNTY POWER, LLC	12/27/2001	?	AUXILIARY BOILER	76	NONE INDICATED	0.0903	BACT-PSD
RINCON POWER PLANT	3/24/2003	?	AUXILIARY BOILER	83	NONE INDICATED	0.0930	BACT-OTHER
CALPINE WAWAYANDA	7/22/2002	NO	AUXILIARY STEAM BOILER	80	CLEAN BURNING FUEL AND EFFICIENT COMBUSTION	0.0980	BACT-PSD
FREMONT ENERGY CENTER, LLC	8/9/2001	?	AUXILIARY BOILER	80	NONE INDICATED	0.0980	BACT-PSD
INDECK-ELWOOD, LLC	10/10/2003		BOILER	99	OPERATION LIMITED TO < 2,500 HR/YR	0.1000	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	CCR STABILIZATION REBOILER	54	NONE INDICATED	0.1000	BACT-PSD
BUCKNELL UNIVERSITY	11/26/1997	?	HEAT RECOVERY BOILER	28	NONE INDICATED	0.1000	BACT-OTHER
CENTRAL SOYA COMPANY INC.	11/29/2001	?	BOILER	91	NONE INDICATED	0.1338	SIP
DUKE ENERGY WYTHER, LLC	2/5/2004	NO	AUXILIARY BOILER	37	NONE INDICATED	0.1339	BACT-PSD
DUKE ENERGY DALE, LLC	12/11/2001	?	AUXILIARY BOILER	35	GOOD COMBUSTION	0.1350	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	10/23/2001	?	BOILER	31	EFFICIENT COMBUSTION	0.1350	BACT-PSD
PSEG WATERFORD ENERGY LLC	3/29/2001	?	AUXILIARY BOILER	93	NONE INDICATED	0.1350	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	1/18/2001	?	BOILER	47	NONE INDICATED	0.1421	BACT-PSD
VENTURA COASTAL CORP.	11/17/1988	?	CLEAVER-BROOKS MODEL CB-400 BOILER	27	NONE INDICATED	0.1482	OTHER
CLOVIS ENERGY FACILITY	6/27/2002	?	(2) AUXILIARY BOILERS	33	DRY LOW NOX (DLN) TECHNOLOGY, GCP	0.1485	BACT-PSD
CHOUTEAU POWER PLANT	3/24/1999	YES	AUXILIARY BOILER	27	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.1490	BACT-PSD
DEMING ENERGY FACILITY	12/29/2000	?	AUXILIARY BOILER	44	GOOD COMBUSTION CONTROL, NATURAL GAS COMBUSTION	0.1497	BACT-PSD
CHOUTEAU POWER PLANT	1/23/2009	?	AUXILIARY BOILER	34	GOOD COMBUSTION	0.1499	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEF I AND II)	11/6/2003	?	(2) AUXILIARY BOILERS	33	OPERATION LIMITED TO < 6,000 HR/YR	0.1500	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	4/1/2002	?	AUXILIARY BOILER	33	GOOD OPERATING PRACTICE	0.1500	BACT-PSD
DUKE ENERGY HOT SPRINGS	12/29/2000	?	(2) AUXILIARY BOILERS	44	PROPER COMBUSTION PROCEDURES	0.1500	BACT-PSD
CABOT POWER CORPORATION	5/7/2000	?	AUXILIARY BOILER	27	OXIDATION CATALYST	0.1500	BACT-PSD
WESTBROOK POWER LLC	12/4/1998	?	AUXILIARY BOILER	25	OPERATION LIMITED TO < 1,000 HR/YR	0.1500	BACT-PSD
INDELK ENERGY SERVICES OF OTSEGO	3/16/1993	?	BOILER	99	COMBUSTION CONTROL	0.1500	BACT-OTHER
VA POWER - POSSUM POINT	11/18/2002	?	AUXILIARY BOILER	99	GCP	0.1505	BACT-OTHER
QUINCY SOYBEAN COMPANY OF ARKANSAS	3/4/1997	?	COGENERATION/WASTE HEAT RECOVERY BOILER	68	GCP	0.1559	BACT-PSD
PROCTER & GAMBLE PAPER PRODUCTS COMPANY	2/24/2000	?	(3) BOILERS	90	LNB	0.1730	BACT-PSD
COTTAGE HEALTH CARE - PUEBLO STREET	5/16/2006	?	BOILER: 5 TO < 33.5 MMBTU/H	25	ULTRA-LOW NOX BURNER	0.1845	BACT-PSD
GENENTECH, INC.	9/27/2005	?	BOILER:>= 50 MMBTU/H	97	ULTRA LOW NOX BURNERS: NATCOM P-97-LOG-35-2127	0.1845	BACT-PSD
WAUPACA FOUNDRY - PLANT 5	1/19/1996	?	BOILERS	94	LNB	0.2045	BACT-PSD
DART CONTAINER CORP OF PA	12/14/2001	YES	(2) CLEAVER BROOKS BOILERS	34	GCP	0.3000	BACT-OTHER
KAL KAN FOODS, INC.	7/24/1990	?	COEN DAF LOW NOX WATER-TUBE BOILER	79	GCP	0.3000	LAER
MCCLAIN ENERGY FACILITY	10/25/2001	?	AUXILIARY BOILER	22	USE OF NATURAL GAS FUEL	0.3700	BACT-PSD
PORT HUDSON OPERATIONS	1/25/2002	?	POWER BOILER NO. 2	66	GOOD EQUIPMENT DESIGN AND PROPER COMBUSTION	0.5618	BACT-PSD
MIRANT SUGAR CREEK, LLC	5/9/2001	?	(2) AUXILIARY BOILERS	35	GOOD COMBUSTION	0.8240	BACT-PSD
BLUEWATER PROJECT	7/22/2004	?	BOILERS	22	GOOD COMBUSTION PRACTICE	0.8400	BACT-PSD
BLUEWATER PROJECT	7/22/2004	NO	BOILERS	22	GCP	0.8400	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT PA15	21	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.8480	BACT

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Particulate Matter Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	PARTICULATE EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
SUN REFINING & MARKETING CO.	11/21/1987	?	BOILER	68	NONE INDICATED	0.0005	OTHER
STAFFORD RAILSTEEL CORPORATION	8/17/1993	?	VTD BOILER	47	FUEL SPEC: NATURAL GAS USAGE	0.0011	BACT-PSD
WOODBIDGE ENERGY CENTER	7/25/2012	NO	Commercial/Institutional size boilers less than 100 MMBtu/hr - TSP	92	USE OF NATURAL GAS	0.0019	BACT-PSD
			Commercial/Institutional size boilers less than 100 MMBtu/hr - PM10/PM-2.5			0.0050	
TITAN TIRE CORPORATION OF BRYAN	6/5/2008	?	BOILER	50	NONE INDICATED	0.0019	BACT
NUCOR STEEL	11/21/2003	?	(2) BOILER	34	COMPLIANCE BY USING NATURAL GAS	0.0019	BACT-PSD
PRO TEC COATING COMPANY	2/15/2001	?	(4) BOILERS	21	NONE INDICATED	0.0019	SIP
CARTY PLANT	12/29/2010	?	NATURAL GAS-FIRED BOILER	91	CLEAN FUEL	0.0025	BACT
INDECK-ELWOOD, LLC	10/10/2003	?	BOILER	99	OPERATION LIMITED TO < 2,500 HR/YR	0.0029	BACT-PSD
IN TEK	10/15/1987	?	(2) BOILER	73	NONE INDICATED	0.0030	BACT-PSD
NUCOR STEEL	11/30/1993	?	VACUUM DEGASSER BOILER	34	FUEL SPEC: NAT GAS FIRING	0.0030	BACT-PSD
CAITHNESS BELLPORT ENERGY CENTER	5/10/2006	YES	AUXILIARY BOILER	29	LOW SULFUR FUEL	0.0033	BACT-PSD
WELLTON MOHAWK GENERATINGSTATION	12/1/2004	?	AUXILIARY BOILER	38	NONE INDICATED	0.0033	BACT-PSD
DOVE VALLEY ENERGY PARTNERS, LLC	8/10/2003	NO	AUXILIARY BOILER	38	NG (S < 0.75 GR/100 SCF) OPERATION < 480 HR/YR	0.0033	BACT-OTHER
MERCK - RAHWAY PLANT	1/14/1997	?	(3) BOILERS	100	NONE INDICATED	0.0033	BACT-PSD
GORDONSVILLE ENERGY L.P.	9/25/1992	?	AUXILIARY BOILER	60	FUEL SPEC: CLEAN BURNING FUEL	0.0033	BACT-PSD
FLOPAM INC.	6/14/2010	NO	Boilers	25	GOOD EQUIPMENT DESIGN, GCP, FUELED BY NAT GAS/ALCOHOL	0.0040	BACT
KLAMATH GENERATION, LLC	3/12/2003	?	AUXILIARY BOILER	59	NONE INDICATED	0.0042	BACT-PSD
PANDA-ROSEMARY CORP.	9/6/1989	?	(2) BOILER	81	COMBUSTION CONTROL	0.0048	BACT-PSD
CPV ST CHARLES	11/12/2008	?	BOILER	93	NONE INDICATED	0.0050	BACT
CPV ST CHARLES	11/12/2008	?	BOILER	93	NONE INDICATED	0.0050	BACT
CPV ST CHARLES	11/12/2008	?	BOILER	93	NONE INDICATED	0.0050	BACT
ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	YES	NATURAL GAS BOILER (292.5 MMBTU/H)	293	NATURAL GAS FUEL ONLY	0.0050	BACT-PSD
ASTORIA ENERGY, LLC	12/5/2001	?	AUXILIARY BOILER	99	NATURAL GAS ONLY	0.0050	BACT-PSD
TENASKA TALLADEGA GENERATING STATION	10/3/2001	?	AUXILIARY BOILER	30	NATURAL GAS AS EXCLUSIVE FUEL	0.0050	BACT-PSD
MID-GEORGIA COGEN.	4/3/1996	?	BOILER	60	COMPLETE COMBUSTION	0.0050	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	CCR STABILIZATION REBOILER	54	NONE INDICATED	0.0050	BACT-PSD
GORDONSVILLE ENERGY L.P.	7/30/1993	?	AUXILIARY BOILER	22	FUEL SPEC: CLEAN BURNING FUEL	0.0050	NSPS
CENTRAL SOYA COMPANY INC.	11/29/2001	?	BOILER	91	NONE INDICATED	0.0050	BACT-PSD
CALPINE WAWAYANDA	7/22/2002	NO	AUXILIARY STEAM BOILER	80	CLEAN FUEL AND EFFICIENT COMBUSTION TECHNIQUES	0.0051	BACT-PSD
KAMINE/BESICORP CORNING L.P.	11/5/1992	?	(3) AUXILIARY BOILERS	34	COMBUSTION CONTROL	0.0051	BACT-OTHER
FREMONT ENERGY CENTER, LLC	8/9/2001	?	AUXILIARY BOILER	80	NONE INDICATED	0.0051	BACT-PSD
ARKANSAS EASTMAN CO.	7/14/1987	?	BOILER #4	78	NONE INDICATED	0.0051	OTHER
FLOPAM INC.	6/14/2010	NO	Boilers	25	GOOD EQUIPMENT DESIGN, GCP, FUELED BY NAT GAS/ALCOHOL	0.0052	BACT
SCHERING CORPORATION	3/7/1996	?	BOILERS 4&5	94	NONE INDICATED	0.0052	BACT-PSD
REDBUD POWER PLT	5/6/2002	?	AUXILIARY BOILER	93	NATURAL GAS/LOW ASH FUEL AND EFFICIENT COMBUSTION	0.0053	BACT-PSD
CHOUTEAU POWER PLANT	1/23/2009	NO	FUEL GAS HEATER (H2O BATH)	19	NONE INDICATED	0.0053	BACT
SHINTECH, INC.	3/17/1980	?	(2) BOILER	55	NONE INDICATED	0.0055	BACT-PSD
PRYOR PLANT CHEMICAL	2/23/2009	?	BOILERS #1 AND #2	80	NONE INDICATED	0.0063	BACT
R. R. DONNELLEY PRINTING COMPANY	5/2/1994	?	BOILER	47	NONE INDICATED	0.0064	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	3/10/2000	YES	AUXILIARY BOILER	96	OPERATION < 500 HR/YR, SULFUR CONTENT < 0.8 GR/100 CF	0.0070	BACT-PSD
HAWKEYE GENERATING, LLC	7/23/2002	?	AUXILIARY BOILER	49	GCP	0.0070	BACT-OTHER
TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	NO	BOILER -2	20	NONE INDICATED	0.0075	BACT-PSD
CARGILL, INC	12/3/2001	?	(2) BOILERS 1 & 2	75	NONE INDICATED	0.0075	OTHER
VA POWER - POSSUM POINT	11/18/2002	?	AUXILIARY BOILER	99	CLEAN FUEL AND GCP	0.0071	BACT-OTHER
COCA COLA	11/23/1999	?	FIRE TUBE BOILER	32	NONE INDICATED	0.0071	BACT-OTHER
NORTHSTAR DEVELOPMENT PROJECT	2/5/1999	NO	WASTE HEAT RECOVERY UNIT 10	53	GOOD OPERATION PRACTICES (< 1,000 HR/YR)	0.0072	BACT-OTHER
SHELL CHEMICAL COMPANY - GEISMAR PLANT	5/10/2000	?	C15/C16 COLUMN REBOILER FURNACE	21	GCP AND ENGINEERING DESIGN CLEAN BURNING FUEL	0.0072	BACT-PSD
CPV CUNNINGHAM CREEK	9/6/2002	?	AUXILIARY BOILER	80	GCP	0.0073	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	9/29/1999	?	AUXILIARY BOILER	96	NATURAL GAS FUEL	0.0073	BACT-PSD
OHIO RIVER PLANT	6/9/2004	?	BOILER, NATURAL GAS 39.00 MMBTU	44	NONE INDICATED	0.0073	BACT-PSD
CHARTER STEEL	6/10/2004	?	BOILER FOR VACUUM OXYGEN DEGASSER VESSEL	29	NONE INDICATED	0.0073	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	5/3/2007	NO	BOILER -2	20	NONE INDICATED	0.0075	BACT-PSD
CRESCENT CITY POWER	6/6/2005	?	FUEL GAS HEATERS (3)	19	LOW SULFUR PIPELINE NATURAL GAS AND GCP	0.0074	BACT-PSD
THUNDERBIRD POWER PLT	5/17/2001	?	AUXILIARY BOILER	20	USE OF LOW ASH FUEL	0.0074	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	10/1/1999	?	AUXILIARY BOILER	24	USE OF LOW ASH FUEL AND EFFICIENT COMBUSTION	0.0074	BACT-PSD
SOLAR GAS TURBINE COGEN.	4/3/2000	?	AUXILIARY BOILER	54	S < 2.5 GRAINS TOTAL SULFUR PER 100 DSCF (SHORT-TERM) AND 0.5 GRAIN TOTAL SULFUR PER 100 DSCF (12-MONTH)	0.0074	NSPS
REPUBLIC STEEL	7/18/2012	?	STEAM BOILER	65	NONE INDICATED	0.0074	BACT
HARRISONBURG RESOURCE RECOVER FACILITY	3/24/2003	?	BOILER NO. 1	43	GCP	0.0074	NSPS
INTERNATIONAL STATION POWER PLANT	12/20/2010	?	SIGMA THERMAL AUXILIARY HTR (1)	13	GCP	0.0075	BACT
INTERNATIONAL STATION POWER PLANT	12/20/2010	?	SIGMA THERMAL AUXILIARY HTR (1)	13	GCP	0.0075	BACT
INTERNATIONAL STATION POWER PLANT	12/20/2010	?	SIGMA THERMAL AUXILIARY HTR (1)	13	GCP	0.0075	BACT
BAYTOWN CARBON BLACK PLANT	12/31/2002	?	BACK-UP BOILER	13	NONE INDICATED	0.0075	BACT-OTHER
GENPOWER EARLEYS, LLC	1/9/2002	?	AUXILIARY BOILER	83	GOOD COMBUSTION AND DESIGN	0.0075	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT FLO1	14	FGR & OPERATE IN ACCORDANCE W/ MFR'S SPECS	0.0075	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP26	24	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0075	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP03	33	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0075	BACT
MGM MIRAGE	11/30/2009	YES	BOILERS - UNITS CC026 - CC028 AT CITY CENTER	44	NATURAL GAS ONLY AND GOOD COMBUSTION PRACTICES	0.0075	BACT
PRYOR PLANT CHEMICAL	2/23/2009	?	NITRIC ACID PREHEATERS #1, #3, AND #4	20	NONE INDICATED	0.0075	BACT
PRYOR PLANT CHEMICAL	2/23/2009	?	NITRIC ACID PREHEATERS #1, #3, AND #4	20	NONE INDICATED	0.0075	BACT
PRYOR PLANT CHEMICAL	2/23/2009	?	BOILERS #1 AND #2	80	NONE INDICATED	0.0075	BACT
HARRAH'S OPERATING COMPANY, INC.	1/4/2007	YES	COMMERCIAL/INSTITUTIONAL-SIZE BOILERS	35	USE OF NATURAL GAS AS THE ONLY FUEL	0.0075	BACT-PSD
BARTON SHOALS ENERGY	7/12/2002	?	(2) AUXILIARY BOILERS	40	NATURAL GAS ONLY	0.0075	BACT-PSD
EMERY GENERATING STATION	12/20/2002	?	AUXILIARY BOILER	68	LOW ASH FUEL, NG	0.0075	BACT-OTHER
DUKE ENERGY, VIGO LLC	6/6/2001	?	(2) AUXILIARY BOILERS	46	GOOD COMBUSTION	0.0075	BACT-PSD
ALLEGHENY ENERGY SUPPLY CO. LLC	12/7/2001	?	AUXILIARY BOILER	21	NATURAL GAS AS SOLE FUEL	0.0075	BACT-PSD
WILLIAMS REFINING & MARKETING, L.L.C.	4/3/2002	?	BOILER, NO. 9	95	NONE INDICATED	0.0075	BACT-PSD
STANLEY FURNITURE	12/1/2002	?	KEWANEE BOILER	27	NONE INDICATED	0.0075	BACT-OTHER
ATOFINA CHEMICALS INCORPORATED	12/19/2002	NO	(2) STEAM BOILERS	16	NONE INDICATED	0.0076	OTHER
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT PA15	21	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0076	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT BA03	31	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0076	BACT
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	YES	BOILER - UNIT CP01	35	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0076	BACT
THYSSENKRUPP STEEL AND STAINLESS USA, LLC	8/17/2007	NO	3 NAT GAS-FIRED BOILERS WITH ULNB & EGR (537-539)	65	NONE INDICATED	0.0076	BACT-PSD
NUCOR DECATUR LLC	6/12/2007	NO	VACUUM DEGASSER BOILER	95	NONE INDICATED	0.0076	BACT-PSD
BLUEWATER PROJECT	7/22/2004	?	BOILERS	22	NATURAL GAS COMBUSTION ONLY	0.0076	BACT-PSD
HYUNDAI MOTOR MANUFACTURING OF ALABAMA,LLC	3/23/2004	?	BOILERS, NATURAL GAS (3)	50	CLEAN FUEL	0.0076	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Particulate Matter Emissions

FACILITY	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	PARTICULATE EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
MUSTANG ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILER	31	LOW ASH FUEL (NATURAL GAS)	0.0076	BACT-PSD
HORSESHOE ENERGY PROJECT	2/12/2002	?	AUXILIARY BOILERS	31	LOW ASH FUEL (NATURAL GAS)	0.0076	BACT-PSD
ANNISTON ARMY DEPOT	6/19/1997	?	(2) BOILER	13	CLEAN FUEL	0.0076	BACT-PSD
ANNISTON ARMY DEPOT	6/19/1997	?	(2) BOILER	12	CLEAN FUEL	0.0076	BACT-PSD
HYUNDAI MOTOR MANUFACTURING OF ALABAMA, LLC	3/23/2004	?	(3) BOILERS	50	CLEAN FUEL	0.0076	BACT-PSD
HONDA MANUFACTURING OF ALABAMA, LLC	10/18/2002	?	(3) BOILERS	30	CLEAN FUEL, GOOD COMBUSTION	0.0076	BACT-PSD
BLUEWATER PROJECT	7/22/2004	NO	BOILERS	22	NATURAL GAS COMBUSTION ONLY	0.0076	BACT-PSD
GREATER DES MOINES ENERGY CENTER	4/10/2002	?	AUXILIARY BOILER	68	NONE INDICATED	0.0076	BACT-PSD
SMITH POCOLA ENERGY PROJECT	8/16/2001	?	(2) AUXILIARY BOILERS	48	USE OF LOW ASH FUEL AND EFFICIENT COMBUSTION	0.0076	BACT-PSD
KIAMICHI ENERGY FACILITY	5/1/2001	?	AUXILIARY BOILER	28	GCP AND DESIGN	0.0076	BACT-PSD
PORT WASHINGTON GENERATING STATION	10/13/2004	?	NATURAL GAS FIRED AUXILLIARY BOILER	97	NATURAL GAS FUEL, GOOD COMBUSTION PRACTICES	0.0076	BACT-PSD
LAWRENCE ENERGY	9/24/2002	?	BOILER	99	NONE INDICATED	0.0077	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT BA01	17	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0077	BACT
MGM MIRAGE	11/30/2009	?	BOILERS - UNITS CC001 - CC003 AT CITY CENTER	42	NATURAL GAS ONLY AND GOOD COMBUSTION PRACTICES	0.0077	BACT
NELLIS AIR FORCE BASE	2/26/2008	?	BOILERS/HEATERS - NATURAL GAS-FIRED		FLUE GAS RECIRCULATION	0.0077	BACT
DRESDEN ENERGY LLC	10/16/2001	?	BOILER	49	NONE INDICATED	0.0078	BACT-PSD
HARRAH'S OPERATING COMPANY, INC.	8/20/2009	?	BOILER - UNIT IP04	17	OPERATE IN ACCORDANCE W/ MANUFACTURER'S SPECS	0.0078	BACT
FAIRBAULT ENERGY PARK	7/15/2004	?	BOILER, NATURAL GAS (1)	40	CLEAN FUEL AND GOOD COMBUSTION.	0.0080	BACT-PSD
MIRANT SUGAR CREEK, LLC	5/9/2001	?	(2) AUXILIARY BOILERS	35	GOOD COMBUSTION	0.0080	BACT-PSD
FAIRBAULT ENERGY PARK	7/15/2004	NO	BOILER	40	CLEAN FUEL AND GOOD COMBUSTION	0.0080	BACT-PSD
LA PORTE POLYPROPYLENE PLANT	11/5/2001	NO	PACKAGE BOILER BO-4	60	NONE INDICATED	0.0080	NSPS
OHIO RIVER PLANT	6/9/2004	NO	BOILER	39	NONE INDICATED	0.0080	BACT-PSD
DUKE ENERGY WYTHE, LLC	2/5/2004	NO	AUXILIARY BOILER	37	PIPELINE NATURAL GAS	0.0082	BACT-PSD
RINCON POWER PLANT	3/24/2003	?	AUXILIARY BOILER	83	NONE INDICATED	0.0084	BACT-OTHER
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	NO	(2) HOT WATER BOILER	12	NATURAL GAS ONLY	0.0085	BACT-PSD
DUKE ENERGY DALE, LLC	12/11/2001	?	AUXILIARY BOILER	35	NATURAL GAS AS EXCLUSIVE FUEL	0.0090	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	10/23/2001	?	BOILER	31	NATURAL GAS IS EXCLUSIVE FUEL	0.0090	BACT-PSD
PSEG WATERFORD ENERGY LLC	3/29/2001	?	AUXILIARY BOILER	93	NONE INDICATED	0.0090	BACT-PSD
MCCLAIN ENERGY FACILITY	10/25/2001	?	AUXILIARY BOILER	22	USE OF LOW ASH FUELS	0.0090	BACT-PSD
DEMING ENERGY FACILITY	12/29/2000	?	AUXILIARY BOILER	44	NATURAL GAS ONLY, PRE-FILTERING	0.0091	BACT-PSD
CARGILL INC. - SIOUX CITY	6/1/1998	?	BACKUP BOILER	77	NONE INDICATED	0.0091	BACT-PSD
CLOVIS ENERGY FACILITY	6/27/2002	?	(2) AUXILIARY BOILERS	33	NATURAL GAS ONLY, GCP	0.0091	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	1/18/2001	?	BOILER	47	NONE INDICATED	0.0094	BACT-PSD
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	?	BOILER,PROCESS STEAM (2) SN-PBCDF-03 -04	32	NATURAL GAS ONLY.	0.0095	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	10/23/2001	?	AUXILIARY BOILER	29	NONE INDICATED	0.0100	BACT-OTHER
CHOUTEAU POWER PLANT	3/24/1999	YES	BOILERY BOILER	27	BOILER DESIGN AND GOOD OPERATING PRACTICES	0.0100	BACT-PSD
GENPOWER KELLEY LLC	1/12/2001	?	BOILER	83	EFFICIENT COMBUSTION	0.0100	BACT-PSD
DUKE ENERGY HOT SPRINGS	12/29/2000	?	(2) AUXILIARY BOILERS	44	CLEAN FUELS, PROPER COMBUSTION	0.0100	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	4/1/2002	?	AUXILIARY BOILER	33	GOOD OPERATING PRACTICE	0.0100	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEF I AND II)	11/6/2003	?	(2) AUXILIARY BOILERS	33	OPERATION LIMITED TO < 6,000 HR/YR	0.0100	BACT-PSD
MURRAY ENERGY FACILITY	10/23/2002	NO	AUXILIARY BOILER	36	GCP, CLEAN FUEL (< 6,000 HR/YR)	0.0100	BACT-PSD
AIR LIQUIDE AMERICA CORPORATION	2/13/1998	?	BOILER NO. 1	95	GOOD DESIGN, PROPER OPER PRACTICES &NAT GAS AS FUEL	0.0100	BACT-PSD
CABOT POWER CORPORATION	5/7/2000	?	AUXILIARY BOILER	27	NATURAL GAS FUEL	0.0100	BACT-PSD
WEBERS FALLS ENERGY FACILITY	10/22/2001	?	AUXILIARY BOILER	30	LOW ASH FUEL & EFFICIENT COMBUSTION (< 3,000 HR/YR)	0.0100	BACT-PSD
GENOVA OK I POWER PROJECT	6/13/2002	?	AUXILIARY BOILER	33	GCP	0.0100	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	3/21/2003	?	AUXILIARY BOILER	33	GCP	0.0100	BACT-PSD
SWEC-FALLS TOWNSHIP	8/7/2001	?	AUXILIARY BOILER	41	NATURAL GAS ONLY	0.0100	BACT-PSD
MAPEE ALCOHOL FUEL, INC.	3/27/1981	?	AUXILIARY BOILER	35	FUEL SPEC: USE OF NAT. GAS FUEL	0.0100	BACT-PSD
INTERNATIONAL PAPER CO.	2/4/1984	?	PACKAGE BOILER	15	NONE INDICATED	0.0100	BACT-PSD
QUAD GRAPHICS OKC FACILITY	8/21/2001	?	BOILERS	63	NATURAL GAS FUEL, GCP	0.0100	BACT-PSD
DUKE ENERGY HANCOCK ROCK ENERGY FACILITY	12/13/2001	?	(2) BOILER	37	NONE INDICATED	0.0101	BACT-PSD
DUKE ENERGY HANCOCK ROCK ENERGY FACILITY	12/28/2004	?	BOILERS (2)	31	NONE INDICATED	0.0101	BACT-PSD
KAMINE/BESICORP SYRACUSE LP	12/10/1994	?	(3) UTILITY BOILERS	33	FUEL SPECIFICATION: SULFUR CONTENT < 0.15% BY WEIGHT	0.0103	BACT-OTHER
U.S. ARMY, PINE BLUFF ARSENAL	2/17/2004	NO	(2) PROCESS STEAM BOILER	28	NATURAL GAS ONLY	0.0106	BACT-PSD
GENOVA ARKANSAS I, LLC	8/23/2002	?	AUXILIARY BOILER	33	GCP	0.0120	BACT-PSD
O.H. KRUSE GRAIN AND MILLING	9/19/1996	?	BOILER USED AS A BACKUP	10	NONE INDICATED	0.0120	LAER
ARCHER DANIELS MIDLAND - VALDESTA, GA	10/12/1995	NO	CLEAVER-BROOKS BOILER	75	NONE INDICATED	0.0133	BACT-OTHER
BMW MANUFACTURING CORP.	1/7/1994	?	(3) AUXILIARY BOILERS	60	NONE INDICATED	0.0137	BACT-PSD
DARLING INTERNATIONAL	12/30/1996	?	NEBRASKA BOILER MODEL NS-B-40	31	NONE INDICATED	0.0137	LAER
WAUPACA FOUNDRY - PLANT 5	1/19/1996	?	BOILERS	94	NONE INDICATED	0.0137	BACT-PSD
ROCHE VITAMINS	2/5/1999	?	BOILER 1	84	NONE INDICATED	0.0142	BACT-PSD
PPG INDUSTRIES, INC.	5/27/1981	?	(2) BOILER	21	NONE INDICATED	0.0143	BACT-PSD
DOW CORNING CORP.	1/7/1991	?	POWER BOILERS	97	NONE INDICATED	0.0150	OTHER
WPS - WESTON PLANT	8/27/2004	?	NATURAL GAS FIRED BOILER	46	NATURAL GAS	0.0173	N/A
ARCHER DANIELS MIDLAND - VALDESTA, GA	10/12/1995	NO	NEBRASKA BOILER	28	NONE INDICATED	0.0179	NSPS
ARCHER DANIELS MIDLAND - VALDESTA, GA	10/12/1995	NO	CLEAVER-BROOKS BOILER	75	NONE INDICATED	0.0179	BACT-OTHER
TITAN TIRE CORPORATION OF BRYAN	6/5/2008	?	BOILER	50	NONE INDICATED	0.0200	BACT
BLOUNT MEGAWATT FACILITY	2/5/2001	?	AUXILIARY BOILER	40	GCP	0.0200	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	10/5/2001	?	AUXILIARY BOILER	35	CLEAN FUEL, GCP	0.0200	BACT-OTHER
KAISER ALUMINUM & CHEMICAL CORP.	9/24/1986	?	BOILER	17	NONE INDICATED	0.0200	OTHER
JACKSON COUNTY POWER, LLC	12/27/2001	?	AUXILIARY BOILER	76	NONE INDICATED	0.0200	BACT-PSD
QUAD GRAPHICS OKC FAC	2/3/2004	?	BOILERS	27	CLEAN FUELS	0.0230	BACT-PSD
CASCO BAY ENERGY CO	7/13/1998	?	AUXILIARY BOILER	21	PROPER COMBUSTION CONTROL,NATURAL GAS ONLY	0.0500	BACT-PSD
PORT HUDSON OPERATIONS	1/25/2002	?	POWER BOILER NO. 2	66	FIRED BY NATURAL GAS	0.0508	BACT-PSD
MINNESOTA MINING AND MANUFACTURING (3M)	7/10/1991	?	BOILER	40	LOW SULFUR FUEL	0.0850	OTHER
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	7/9/1998	?	NEBRASKA BOILER	28	NONE INDICATED	0.0857	BACT-PSD
TOYOTA MOTOR MANUFACTURING, USA, INC	5/29/1997	?	BOILER	96	FABRIC FILTER	0.1000	BACT-PSD
TOYOTA MOTOR MANUFACTURING	6/21/1991	?	BOILER	96	LOW SULFUR FUEL	0.1000	BACT-PSD
INDECK-YERKES ENERGY SERVICES	6/24/1992	?	AUXILIARY BOILER	99	NONE INDICATED	0.1000	BACT-OTHER
AMTRAK	10/12/1988	?	(2) BOILER	90	NONE INDICATED	0.1000	OTHER
WESTBROOK POWER LLC	12/4/1998	?	AUXILIARY BOILER	25	OPERATION LIMITED TO < 1,000 HR/YR	0.1200	BACT-PSD
GENERAL ELECTRIC CO.	9/17/1989	?	BOILER	93	LNB	0.1570	OTHER
TOYOTA MOTOR CORPORATION SVCS OF N.A.	8/9/1996	?	(6) BOILERS	58	LNB & FUEL SPEC: USE OF NATURAL GAS AS FUEL	0.2000	BACT-PSD
QUEBECOR WORLD FRANKLIN	7/12/2002	NO	BOILER #4	34	NONE INDICATED	0.3080	BACT-PSD
DART CONTAINER CORP OF PA	12/14/2001	YES	(2) CLEAVER BROOKS BOILERS	34	NONE INDICATED	0.4000	NSPS
SOLVAY SODA ASH JOINT VENTURE TRONA MINE/SODA ASH	2/6/1998	?	BOILER	100	MINIMAL PARTICULATE EMISSIONS AND LOW EMITTING FUEL	5.0000	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	SO ₂ EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	?	FUEL GAS HEATERS (3)	19	NONE INDICATED	0.0004	BACT-PSD
PPG INDUSTRIES, INC.	TEXAS	5/27/1981	YES	(2) BOILER	21	FUEL SPEC: NATURAL GAS FIRING	0.0005	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	LUCAS, OH	5/3/2007	?	BOILER -2	20	NONE INDICATED	0.0005	UNKNOWN
CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK, NY	5/10/2006	YES	AUXILIARY BOILER	29	NONE INDICATED	0.0005	BACT-PSD
PSEG WATERFORD ENERGY LLC	WASHINGTON CO., OH	3/29/2001	YES	AUXILIARY BOILER	93	LOW S NATURAL GAS 2 GR/100 SCF	0.0005	BACT-PSD
REPUBLIC STEEL	OHIO	7/18/2012	?	STEAM BOILER	65	NONE INDICATED	0.0006	BACT
LAKE CHARLES GASIFICATION FACILITY	CALCASIEU, LA	6/22/2009	?	SHIFT REACTOR STARTUP HEATER	34	FUELED BY NATURAL GAS OR SUBSTITUTE NATURAL GAS (SNG)	0.0006	BACT
INDECK-ELWOOD, LLC	BUFFALO GROVE, IL	10/10/2003	?	BOILER	99	OPERATION LIMITED TO < 2,500 HR/YR	0.0006	BACT-PSD
PANDA-ROSEMARY CORP.	NORTH CAROLINA	9/6/1989	YES	(2) BOILER	81	FUEL SPEC: LOW S FUEL	0.0006	BACT-PSD
WAUPACA FOUNDRY - PLANT 5	PERRY CO., IN	1/19/1996	YES	BOILERS	94	NONE INDICATED	0.0006	BACT-PSD
CHOUTEAU POWER PLANT	MAYES, OK	1/23/2009	?	AUXILIARY BOILER	34	LOW SULFUR FUEL	0.0006	BACT
BLUEWATER PROJECT	MISSISSIPPI CO., AR	7/22/2004	NO	BOILERS	22	NATURAL GAS COMBUSTION ONLY	0.0006	BACT-PSD
NUCOR STEEL	MONTGOMERY CO., IN	11/21/2003	YES	(2) BOILER	34	COMPLIANCE BY USING NATURAL GAS	0.0006	BACT-PSD
EMERY GENERATING STATION	CERRO GORDO CO., IA	12/20/2002	YES	AUXILIARY BOILER	68	LOW SULFUR FUEL, NG	0.0006	BACT-OTHER
ALLEGHENY ENERGY SUPPLY CO. LLC	ST. JOSEPH CO., IN	12/7/2001	YES	AUXILIARY BOILER	21	LOW SULFUR CONTENT NATURAL GAS	0.0006	BACT-PSD
DUKE ENERGY, VIGO LLC	VIGO CO., IN	6/6/2001	YES	(2) AUXILIARY BOILERS	46	NATURAL GAS AS FUEL	0.0006	BACT-PSD
MIRANT SUGAR CREEK, LLC	VIGO CO., IN	5/9/2001	YES	(2) AUXILIARY BOILERS	35	LOW SULFUR NATURAL GAS ONLY (LESS THAN 0.8% BY WEIGHT)	0.0006	BACT-PSD
MAPEE ALCOHOL FUEL, INC.	MOORE CO., TX	3/27/1981	YES	AUXILIARY BOILER	35	FUEL SPEC: USE OF NAT. GAS FUEL	0.0006	BACT-PSD
BLUEWATER PROJECT	MISSISSIPPI, AR	7/22/2004	?	BOILERS	22	NONE INDICATED	0.0006	BACT-PSD
NUCOR DECATUR LLC	MORGAN, AL	6/12/2007	?	VACUUM DEGASSER BOILER	95	NONE INDICATED	0.0006	BACT-PSD
CENTRAL SOYA COMPANY INC.	HURON CO., OH	11/29/2001	YES	BOILER	91	NONE INDICATED	0.0006	SIP
PORT WASHINGTON GENERATING STATION	WASHINGTON, WI	10/13/2004	?	NATURAL GAS FIRED AUXILLIARY BOILER	97	USE OF NAT GAS	0.0006	BACT-PSD
ATOFINA CHEMICALS INCORPORATED	JEFFERSON CO., TX	12/19/2002	NO	(2) STEAM BOILERS	16	SWEET NATURAL GAS CONTAINING < 5 GR S/100 DSCF	0.0006	OTHER
STAFFORD RAILSTEEL CORPORATION	CRITTENDEN CO., AR	8/17/1993	YES	VTD BOILER	47	FUEL SPEC: NATURAL GAS USAGE	0.0006	OTHER
COPPER MOUNTAIN POWER	CLARK, NV	5/14/2004	?	AUXILIARY BOILER	60	NONE INDICATED	0.0007	UNKNOWN
CHARTER STEEL	CUYAHOGA, OH	6/10/2004	?	BOILER FOR VACUUM OXYGEN DEGASSER VESSEL	29	NONE INDICATED	0.0007	BACT-PSD
LAKE CHARLES GASIFICATION FACILITY	CALCASIEU, LA	6/22/2009	?	GASIFIER STARTUP PREHEATER BURNERS (5)	35	FUELED BY NATURAL GAS OR SUBSTITUTE NATURAL GAS (SNG)	0.0007	BACT
MGM MIRAGE	CLARK, NV	11/30/2009	?	BOILERS - UNITS CC001, CC002, AND CC003 AT CITY CEN	42	LIMITING THE FUEL TO NATURAL GAS ONLY.	0.0007	BACT
BAYTOWN CARBON BLACK PLANT	HARRIS CO., TX	12/31/2002	YES	BACK-UP BOILER	13	NONE INDICATED	0.0007	BACT-OTHER
COCA COLA	LOS ANGELES CO., CA	11/23/1999	YES	FIRE TUBE BOILER	32	NONE INDICATED	0.0008	BACT-OTHER
KAISER ALUMINUM & CHEMICAL CORP.	OHIO	9/24/1986	YES	BOILER	17	NONE INDICATED	0.0008	OTHER
CASCO BAY ENERGY CO	VEAZIE, ME	7/13/1998	?	AUXILIARY BOILER	21	PIPELINE QUALITY NATURAL GAS	0.0010	BACT-PSD
MCCLAIN ENERGY FACILITY	MCCLAIN CO., OK	10/25/2001	YES	AUXILIARY BOILER	22	USE OF PIPELINE QUALITY NATURAL GAS	0.0010	BACT-PSD
MERCK - RAHWAY PLANT	UNION CO., NJ	1/14/1997	YES	(3) BOILERS	100	NONE INDICATED	0.0010	BACT-PSD
VA POWER - POSSUM POINT	PRINCE WILLIAM CO., VA	11/18/2002	YES	AUXILIARY BOILER	99	LOW SULFUR FUEL AND GCP	0.0010	BACT-OTHER
DUKE ENERGY HANGING ROCK ENERGY FACILITY	LAWRENCE CO., OH	12/13/2001	YES	(2) BOILER	37	THE MAXIMUM S CONTENT < 2 GRAINS PER 100 CUBIC FEET	0.0010	BACT-PSD
DRESDEN ENERGY LLC	MUSKINGUM CO., OH	10/16/2001	YES	BOILER	49	THE MAXIMUM SULFUR CONTENT < 0.3 GRAINS PER 100 SCF	0.0010	BACT-PSD
SATSOP COMBUSTION TURBINE PROJECT	GRAYS HARBOR CO., WA	10/23/2001	YES	AUXILIARY BOILER	29	NONE INDICATED	0.0010	BACT-PSD
WPS - WESTON PLANT	MARATHON, WI	8/27/2004	?	NATURAL GAS FIRED BOILER	46	USE OF NAT GAS	0.0011	UNKNOWN
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	BOILER 1	84	NONE INDICATED	0.0012	BACT-PSD
ANNISTON ARMY DEPOT	CALHOUN CO., AL	6/19/1997	YES	(2) BOILER	13	CLEAN FUEL	0.0012	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	?	AUXILIARY BOILER	25	OPERATION LIMITED TO < 1,000 HR/YR	0.0012	BACT-PSD
PRYOR PLANT CHEMICAL	MAYES, OK	2/23/2009	?	NITRIC ACID PREHEATERS #1, #3, AND #4	20	NONE INDICATED	0.0015	BACT
WARREN COUNTY FACILITY	WARREN, VA	1/14/2008	?	AUXILIARY BOILER - SCENARIO 2	97	CEM SYSTEM	0.0015	BACT
CHOUTEAU POWER PLANT	MAYES, OK	1/23/2009	?	FUEL GAS HEATER (H2O BATH)	19	LOW SULFUR FUEL	0.0016	BACT
WOODBIDGE ENERGY CENTER	WOODBIDGE, NJ	7/25/2012	NO	Commercial/Institutional size boilers less than 100 MMBtu/hr	92	LOW SULFUR FUEL	0.0018	BACT-PSD
SWEC-FALLS TOWNSHIP	GLEN ALLEN, PA	8/7/2001	?	AUXILIARY BOILER	41	NATURAL GAS ONLY	0.0020	BACT-PSD
CABOT POWER CORPORATION	SUFFOLK CO., MA	5/7/2000	YES	AUXILIARY BOILER	27	NATURAL GAS FUEL OF < .8 GRAINS PER 100 SCF	0.0022	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	NO	AUXILIARY BOILER	38	NG (S < 0.75 GR/100 SCF) OPERATION LIMITED TO < 480 HR/YR	0.0023	BACT-OTHER
WELLTON MOHAWK GENERATINGSTATION	YUMA, AZ	12/1/2004	?	AUXILIARY BOILER	38	NONE INDICATED	0.0023	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEF I AND II)	ARLINGTON, AZ	11/6/2003	?	(2) AUXILIARY BOILERS	33	OPERATION LIMITED TO < 6,000 HR/YR	0.0024	BACT-PSD
REDBUD POWER PLT	OKLAHOMA CO., OK	5/6/2002	YES	AUXILIARY BOILER	93	USE OF NATURAL GAS/LOW ASH FUEL AND EFFICIENT COMBUSTION	0.0029	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER	96	OPERATION < 500 HR/YR, SULFUR CONTENT < 0.8 GR/100 CF	0.0029	BACT-PSD
CLOVIS ENERGY FACILITY	CURRY CO., NM	6/27/2002	YES	(2) AUXILIARY BOILERS	33	NATURAL GAS ONLY, GCP	0.0030	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	SUFFOLK CO., MA	9/29/1999	YES	AUXILIARY BOILER	96	NATURAL GAS FUEL < .8 GRAINS OF SULFUR PER 100 CU FT	0.0031	BACT-PSD
WARREN COUNTY FACILITY	WARREN, VA	1/14/2008	?	AUXILIARY BOILER - SCENARIO 3	62	CEM SYSTEM	0.0032	BACT
LAKE CHARLES GASIFICATION FACILITY	CALCASIEU, LA	6/22/2009	?	METHANATION STARTUP HEATERS	57	FUELED BY NATURAL GAS OR SUBSTITUTE NATURAL GAS (SNG)	0.0035	BACT
U.S. ARMY, PINE BLUFF ARSENAL	JEFFERSON CO., AR	2/17/2004	NO	(2) PROCESS STEAM BOILER	28	LOW-SULFUR NATURAL GAS ONLY	0.0035	BACT-PSD
PORT HUDSON OPERATIONS	E. BATON ROUGE PARISH, LA	1/25/2002	YES	POWER BOILER NO. 2	66	FIRING NATURAL GAS	0.0040	BACT-PSD
PRYOR PLANT CHEMICAL	MAYES, OK	2/23/2009	?	BOILERS #1 AND #2	80	NONE INDICATED	0.0040	BACT
MUSTANG ENERGY PROJECT	CANADIAN CO., OK	2/12/2002	YES	AUXILIARY BOILER	31	< 2 GR/100 SCF SULFUR	0.0056	BACT-PSD
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	YES	AUXILIARY BOILERS	31	< 2 GR/100 SCF SULFUR	0.0056	BACT-PSD
LAWRENCE ENERGY	LAWRENCE CO., OH	9/24/2002	YES	BOILER	99	NONE INDICATED	0.0057	BACT-PSD
DUKE ENERGY DALE, LLC	DALE CO., AL	12/11/2001	YES	AUXILIARY BOILER	35	NATURAL GAS	0.0057	BACT-PSD
DUKE ENERGY AUTAUGA, LLC	AUTAUGA CO., AL	10/23/2001	YES	BOILER	31	NATURAL GAS IS EXCLUSIVE FUEL	0.0057	BACT-PSD
COGENTRIX LAWRENCE CO., LLC	LAWRENCE CO., IN	10/5/2001	YES	AUXILIARY BOILER	35	GCP	0.0060	BACT-PSD
FREMONT ENERGY CENTER, LLC	SANDUSKY CO., OH	8/9/2001	YES	AUXILIARY BOILER	80	NONE INDICATED	0.0060	BACT-PSD

Appendix G

Recent BACT/LAER Determinations for Natural Gas-Fired Auxiliary Boilers (10 - 100 mmBtu/hr)

Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	SO ₂ EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
BLOUNT MEGAWATT FACILITY	BLOUNT CO., AL	2/5/2001	YES	AUXILIARY BOILER	40	GCP	0.0060	BACT-PSD
DUKE ENERGY HOT SPRINGS	HOT SPRINGS CO., AR	12/29/2000	YES	(2) AUXILIARY BOILERS	44	LOW SULFUR FUELS	0.0060	BACT-PSD
GREEN COUNTRY ENERGY PROJECT	TULSA CO., OK	10/1/1999	YES	AUXILIARY BOILER	24	USE OF NATURAL GAS	0.0060	BACT-PSD
KIAMICHI ENERGY FACILITY	PITTSBURG CO., OK	5/1/2001	YES	AUXILIARY BOILER	28	USE OF NATURAL GAS WITH LOW SULFUR CONTENT	0.0060	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	WASHINGTON CO., OH	1/18/2001	YES	BOILER	47	NONE INDICATED	0.0060	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	YES	AUXILIARY BOILER	33	LOW SULFUR FUEL	0.0061	BACT-PSD
JACKSON COUNTY POWER, LLC	JACKSON CO., OH	12/27/2001	YES	AUXILIARY BOILER	76	LOW SULFUR FUEL, NATURAL GAS SULFUR LIMIT - 2 GR/100 SCF	0.0066	BACT-PSD
U.S. ARMY, PINE BLUFF ARSENAL	JEFFERSON CO., AR	2/17/2004	YES	(2) HOT WATER BOILER	12	LOW-SULFUR NATURAL GAS ONLY	0.0085	BACT-PSD
SOLAR GAS TURBINE COGEN.	ECTOR CO., TX	4/3/2000	YES	AUXILIARY BOILER	54	< 2.5 GRAINS TOTAL SULFUR PER 100 DSCF (SHORT-TERM) AND 0.5 GRAIN TOTAL SULFUR PER 100 DSCF (12-MONTH)	0.0143	NSPS
ARKANSAS EASTMAN CO.	ARKANSAS	7/14/1987	YES	BOILER #4	78	FUEL SPEC: MAX SULFUR LIMIT	0.0154	OTHER
LA PORTE POLYPROPYLENE PLANT	HARRIS CO., TX	11/5/2001	YES	PACKAGE BOILER BO-4	60	NONE INDICATED	0.0158	NSPS
HULS AMERICA	MOBILE CO., AL	8/31/1990	YES	(2) BOILERS	39	LOW SULFUR NATURAL GAS	0.0411	BACT-PSD
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	YES	BOILER NO. 1	43	CEM SYSTEM AND GCP	0.0507	NSPS
SUNLAND REFINERY	CALIFORNIA	9/24/1992	YES	(2) BOILERS	13	FUEL SPEC: LOW SULFUR FUEL	0.1690	BACT-PSD
SMITH POCOLA ENERGY PROJECT	OKLAHOMA CO., OK	8/16/2001	YES	(2) AUXILIARY BOILERS	48	NATURAL GAS W/SULFUR CONTENT 2 GRAINS SULFUR/100 SCF	0.2000	BACT-PSD
CPV WARREN	WARREN, VA	1/14/2008	NO	AUXILIARY BOILER - SCENARIO 3	62	NONE INDICATED	0.2000	UNKNOWN
INTERNATIONAL PAPER CO.	DALLAS CO., TX	2/4/1984	YES	PACKAGE BOILER	15	FUEL SPEC:	0.2200	BACT-PSD
MINNESOTA MINING AND MANUFACTURING (3M)	KENTUCKY	7/10/1991	YES	BOILER	40	LOW SULFUR FUEL	0.2240	OTHER
CALIFORNIA DEPT. OF CORRECTIONS	CALIFORNIA	12/18/1987	YES	(2) BOILER	36	FUEL SPEC: LOW S FUEL, <0.12% S	0.2431	BACT-PSD
WEBERS FALLS ENERGY FACILITY	MUSKOGEE CO., OK	10/22/2001	YES	AUXILIARY BOILER	30	USE OF NATURAL GAS (< 3,000 HR/YR)	0.2533	BACT-PSD
TOYOTA MOTOR MANUFACTURING, USA, INC	SCOTT CO., KY	5/29/1997	YES	BOILER	96	THE SULFUR CONTENT OF NO.2 FUEL < 0.3%	0.3000	BACT-PSD
TOYOTA MOTOR MANUFACTURING	SCOTT CO., KY	6/21/1991	YES	BOILER	96	SULFUR CONTENT LIMITED	0.3000	OTHER
CPV WARREN	WARREN, VA	1/14/2008	NO	AUXILIARY BOILER - SCENARIO 2	97	NONE INDICATED	0.3200	UNKNOWN
R. R. DONNELLEY PRINTING COMPANY	CAMPBELL CO., VA	5/2/1994	YES	BOILER	47	NONE INDICATED	0.4170	BACT-PSD
MICHELIN NORTH AMERICA, INC.	LEXINGTON CO., SC	8/14/1996	YES	(2) BOILERS	95	USE OF NATURAL GAS AS PRIMARY FUEL	0.5000	BACT-PSD
DOW CORNING CORP.	CARROLL CO., KY	1/7/1991	YES	POWER BOILERS	97	CLEAN BURNING FUEL	0.5000	BACT-PSD
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	YES	KEWANEE BOILER	27	NONE INDICATED	0.5132	BACT-OTHER
QUEBECOR WORLD FRANKLIN	SIMPSON CO., KY	7/12/2002	YES	BOILER #4	34	CLEAN FUEL	1.0570	BACT-PSD
NORTHSTAR DEVELOPMENT PROJECT	ALASKA	2/5/1999	YES	WASTE HEAT RECOVERY UNIT 10	53	H2S CONTENT OF NATURAL GAS FUEL < 50 PPMV (< 1,000 HR/YR)	2.5500	BACT-OTHER
DART CONTAINER CORP OF PA	LANCASTER CO., PA	12/14/2001	YES	(2) CLEAVER BROOKS BOILERS	34	LOW SULFUR FUEL	4.0000	NSPS
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	YES	BOILER	40	LOW SULFUR FUEL 0.8 GR/SCF CALENDAR YEAR AVERAGE	--	BACT-PSD
DUKE ENERGY-JACKSON FACILITY	JACKSON CO., AR	4/1/2002	YES	AUXILIARY BOILER	33	FUELS LIMIT: < 2 GR/100 DSCF	--	BACT-PSD
SCHERING CORPORATION	UNION CO., NJ	3/7/1996	YES	BOILERS 4&5	94	NONE INDICATED	--	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Diesel Oil-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	DISTILLATE OIL AUXILIARY BOILER	40	LNB AND FGR	0.058	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	OHIO	5/3/2007	?	BOILER (2), NO. 2 FUEL OIL	20.4	LOW NOX BURNERS AND FLUE GAS RECIRCULATION	0.074	BACT-PSD
CAITHNESS BELLPORT ENERGY CENTER	BELLPORT, NY	5/10/2006	YES	AUXILIARY BOILER	28	LOW NOX BURNERS & FLUE GAS RECIRCULATION	0.100	LAER
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER (BACK-UP FUEL)	96	OPERATION LIMITED TO 500 HR/YR	0.100	BACT
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	NO	DISTILLATE OIL AUXILIARY BOILER	99	LIMIT BOILER USE TO 3600 H/YR	0.100	LAER
MERCK - RAHWAY PLANT	RAHWAY, NJ	1/14/1997	YES	NO. 2 OIL BOILERS (2)	100	LNB	0.101	BACT-PSD
DAIKIN AMERICA INC.	DECATUR, AL	8/28/1991	YES	BOILERS (2)	36	LNB W/ FGR	0.119	BACT-PSD
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	LNB	0.120	BACT-PSD
TULTEX CORP.	MARTINSVILLE, VA	12/18/1986	NO	OIL FIRED CLEAVER-BROOKS BOILER	93	NONE INDICATED	0.140	BACT-PSD
ABBOTT LABORATORIES, STURGIS PLANT	STURGIS, MI	9/16/2003	?	FUEL OIL BOILER	99	LNB AND FGR	0.140	BACT-PSD
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	?	(2) ENGLISH BOILERS	43	FGR, LNB, GCP, CEMS	0.143	BACT-OTHER
GENERAL ELECTRIC	BURKVILLE, AL	10/14/1988	NO	FUEL OIL BOILER	99	LNB	0.150	BACT-PSD
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	?	FUEL OIL BOILER	60	DLN BURNER WITH FGR	0.150	BACT-PSD
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.153	BACT-OTHER
CENTRAL SOYA COMPANY INC.	BELLEVUE, OH	11/29/2001	YES	NO 2 FUEL OIL BOILER	87	USE OF LNB	0.161	SIP
CHAMBERS COGENERATION LIMITED PARTNERSHIP	CARNEY'S POINT, NJ	11/5/1990	?	AUXILIARY BOILER	77	NONE INDICATED	0.169	BACT-OTHER
PROCTOR & GAMBLE PAPER PRODUCTS	CAPE GIRARDEAU, MO	1/1/1998	?	#2 FUEL OIL BOILERS (3)	50	LNB, GOOD COMBUSTION	0.170	BACT-PSD
INDECK-YERKES ENERGY SERVICES	ERIE, NY	6/24/1992	?	AUXILIARY BOILER	99	NO CONTROLS	0.200	BACT-OTHER
TOYOTA MOTOR MANUFACTURING, USA, INC	GEORGETOWN, KY	5/29/1997	?	FUEL OIL BOILER	96	NONE INDICATED	0.200	BACT-PSD
BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON UNIT	5 MI E OF GILLETTE, WY	4/14/1993	YES	AUXILIARY DISTILLATE OIL BOILER	31	NONE INDICATED	0.200	OTHER
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	ENDERLIN, ND	7/9/1998	YES	NEBRASKA BACKUP OIL BOILER	28	NONE INDICATED	0.207	BACT-PSD
WGP, INCORPORATED	LEWISTON, ME	5/20/1993	NO	#2 FUEL OIL BOILER	92	LNB, LEA, FGR	0.220	BACT-PSD
INTERNATIONAL FLAVORS AND FRAGRANCES	UNION BEACH, NJ	6/9/1995	?	NO.2 FUEL OIL BOILER	96	NONE INDICATED	0.225	RACT
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GEN UNIT < 500 HR/YR	0.400	BACT-PSD
LOUISIANA-PACIFIC CORP.--NORTHERN DIV.	DUNGANNON, VA	3/15/1995	?	KONUS THERMAL OIL HEATER	31	CYCLONE IN SERIES W/BAGHOUSE	0.506	BACT-OTHER
ID NAT'L ENGINEERING AND ENV'T'L LAB/NUCLEAR TECH	IDAHO FALLS, ID	6/26/2000	?	CPP-606 BLRS (4), INTEC PORTABLE BLR (1)	44	FGR	0.571	BACT-PSD

ASSUMPTION: HEAT INPUT CONVERTED FROM GALLONS/DAY BASED ON FUEL HHV OF 140,000 BTU/GAL

FGR = FLUE GAS RECIRCULATION, LNB = LOW NOX BURNERS, GCP = GOOD COMBUSTION PRACTICES, CEMS = CONTINUOUS EMISSION MONITORING SYSTEMS, DLN = DRY LOW NOX

Appendix G
Recent BACT/LAER Determinations for Diesel Oil-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Volatile Organic Compound Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	BASIS
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GEN UNIT < 500 HR/YR	0.001	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	OHIO	5/3/2007	?	BOILER (2), NO. 2 FUEL OIL	20	NONE INDICATED	0.001	BACT-PSD
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	COMBUSTION CONTROL	0.002	BACT-PSD
WGP, INCORPORATED	LEWISTON, ME	5/20/1993	NO	#2 FUEL OIL BOILER	92	GOOD COMBUSTION TECHNIQUES	0.002	BACT-PSD
TULTEX CORP.	MARTINSVILLE, VA	12/18/1986	NO	OIL FIRED CLEAVER-BROOKS BOILER	93	NONE INDICATED	0.003	BACT-PSD
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	DISTILLATE OIL AUXILIARY BOILER	40	GOOD COMBUSTION	0.003	BACT-PSD
MERCK - RAHWAY PLANT	RAHWAY, NJ	1/14/1997	YES	NO. 2 OIL BOILERS (2)	100	NONE INDICATED	0.004	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER (BACK-UP FUEL)	96	OPERATION LIMITED TO 500 HR/YR	0.004	BACT
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.004	BACT-OTHER
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	?	DISTILLATE OIL AUXILIARY BOILER	99	GCP	0.005	LAER
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	?	(2) ENGLISH BOILERS	43	GCP	0.005	NSPS
CHAMBERS COGENERATION LIMITED PARTNERSHIP (CCLP)	CARNEY'S POINT, NJ	11/5/1990	?	AUXILIARY BOILER	77	NONE INDICATED	0.008	BACT-OTHER
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	YES	FUEL OIL BOILER	60	COMPLETE COMBUSTION	0.008	BACT-PSD
CENTRAL SOYA COMPANY INC.	BELLEVUE, OH	11/29/2001	YES	NO 2 FUEL OIL BOILER	87	NONE INDICATED	0.014	BACT-PSD
BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U	5 MI E OF GILLETTE, WY	4/14/1993	YES	AUXILIARY DISTILLATE OIL BOILER	31	NONE INDICATED	0.040	OTHER
LOUISIANA-PACIFIC CORP.--NORTHERN DIV.	DUNGANNON, VA	3/15/1995	?	KONUS THERMAL OIL HEATER	31	CYCLONE IN SERIES WITH FF	0.045	BACT-OTHER
PROCTOR & GAMBLE PAPER PRODUCTS	CAPE GIRARDEAU, MO	1/1/1998	?	#2 FUEL OIL BOILERS (3)	50	LNB, W/O FGR, GOOD COMBN	0.052	BACT-PSD

FGR = FLUE GAS RECIRCULATION, LNB = LOW NOX BURNERS, GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Diesel Oil-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
TULTEX CORP.	MARTINSVILLE, VA	12/18/1986	NO	OIL FIRED CLEAVER-BROOKS BOILER	93	NONE INDICATED	0.036	BACT-PSD
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	ENDERLIN, ND	7/9/1998	YES	NEBRASKA BACKUP OIL BOILER	28	NONE INDICATED	0.036	BACT-PSD
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	DISTILLATE OIL AUXILIARY BOILER	40	GOOD COMBUSTION	0.036	BACT-PSD
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	COMBUSTION CONTROL	0.036	BACT-PSD
MERCK - RAHWAY PLANT	RAHWAY, NJ	1/14/1997	YES	NO. 2 OIL BOILERS (2)	100	NONE INDICATED	0.036	BACT-PSD
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	COMBUSTION CONTROL	0.036	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	OHIO	5/3/2007	?	BOILER (2), NO. 2 FUEL OIL	20	NONE INDICATED	0.036	BACT-PSD
INDECK-YERKES ENERGY SERVICES	ERIE, NY	6/24/1992	?	AUXILIARY BOILER	99	NO CONTROLS	0.038	BACT-OTHER
CAITHNESS BELLPORT ENERGY CENTER	BELLPORT, NY	5/10/2006	YES	AUXILIARY BOILER	28	GCP	0.039	BACT-PSD
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GEN UNIT < 500 HR/YR	0.040	BACT-PSD
BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U	5 MI E OF GILLETTE, WY	4/14/1993	YES	AUXILIARY DISTILLATE OIL BOILER	31	NONE INDICATED	0.050	OTHER
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER (BACK-UP FUEL)	96	OPERATION LIMITED TO 500 HR/YR	0.080	BACT
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	?	(2) ENGLISH BOILERS	43	GCP	0.082	NSPS
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.089	BACT-OTHER
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	YES	FUEL OIL BOILER	60	COMPLETE COMBUSTION	0.090	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	NO	DISTILLATE OIL AUXILIARY BOILER	99	GCP	0.100	BACT-PSD
CENTRAL SOYA COMPANY INC.	BELLEVUE, OH	11/29/2001	YES	NO 2 FUEL OIL BOILER	87	NONE INDICATED	0.136	SIP
PROCTOR & GAMBLE PAPER PRODUCTS	CAPE GIRARDEAU, MO	1/1/1998	?	#2 FUEL OIL BOILERS (3)	50	NONE INDICATED	0.150	BACT-PSD
CHAMBERS COGENERATION LIMITED PARTNERSHIP (CCLP)	CARNEY'S POINT, NJ	11/5/1990	?	AUXILIARY BOILER	77	NONE INDICATED	0.171	BACT-OTHER
WGP, INCORPORATED	LEWISTON, ME	5/20/1993	NO	#2 FUEL OIL BOILER	92	COMBUSTION CONTROLS	0.280	BACT-PSD
LOUISIANA-PACIFIC CORP.--NORTHERN DIV.	DUNGANNON, VA	3/15/1995	?	KONUS THERMAL OIL HEATER	31	NONE INDICATED	0.697	BACT-OTHER

GCP = GOOD COMBUSTION PRACTICES, CEMS CONTINUOUS EMISSION MONITORING SYSTEMS

Appendix G
Recent BACT/LAER Determinations for Diesel Oil-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Particulate Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
WGP, INCORPORATED	LEWISTON, ME	5/20/1993	NO	#2 FUEL OIL BOILER	92	USE CLEAN FUELS. PROPER COMB	0.001	BACT-PSD
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	?	(2) ENGLISH BOILERS	43	GCP	0.007	NSPS
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.008	BACT-OTHER
MERCK - RAHWAY PLANT	RAHWAY, NJ	1/14/1997	YES	NO. 2 OIL BOILERS (2)	100	NONE INDICATED	0.014	BACT-PSD
TULTEX CORP.	MARTINSVILLE, VA	12/18/1986	NO	OIL FIRED CLEAVER-BROOKS BOILER	93	NONE INDICATED	0.014	BACT-PSD
CAITHNESS BELLPORT ENERGY CENTER	BELLPORT, NY	5/10/2006	YES	AUXILIARY BOILER	28	LOW SULFUR FUEL	0.015	BACT-PSD
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	COMBUSTION CONTROL	0.015	BACT-PSD
TOLEDO SUPPLIER PARK- PAINT SHOP	OHIO	5/3/2007	?	BOILER (2), NO. 2 FUEL OIL-TSP	20	LOW SULFUR FUEL	0.015	BACT-PSD
				BOILER (2), NO. 2 FUEL OIL-PM10			0.025	BACT-PSD
CENTRAL SOYA COMPANY INC.	BELLEVUE, OH	11/29/2001	YES	NO 2 FUEL OIL BOILER	87	NONE INDICATED	0.016	BACT-PSD
CHAMBERS COGENERATION LIMITED PARTNERSHIP (CCLP)	CARNEY'S POINT, NJ	11/5/1990	?	AUXILIARY BOILER	77	NONE INDICATED	0.020	BACT-OTHER
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	DISTILLATE OIL AUXILIARY BOILER	40	CLEAN FUEL AND GOOD COMBUSTION	0.024	BACT-PSD
MID-GEORGIA COGEN.	KATHLEEN, GA	4/3/1996	YES	FUEL OIL BOILER	60	COMPLETE COMBUSTION	0.028	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	NO	DISTILLATE OIL AUXILIARY BOILER	99	LIMITED USE	0.040	BACT-PSD
BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U	5 MI E OF GILLETTE, WY	4/14/1993	YES	AUXILIARY DISTILLATE OIL BOILER	31	NONE INDICATED	0.040	OTHER
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.044	BACT-OTHER
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GEN UNIT < 500 HR/YR	0.050	BACT-PSD
PROCTOR & GAMBLE PAPER PRODUCTS	CAPE GIRARDEAU, MO	1/1/1998	?	#2 FUEL OIL BOILERS (3)	50	LNB, W/O FGR, GOOD COMBUSTION	0.050	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER (BACK-UP FUEL)	96	OPERATION LIMITED TO 500 HR/YR	0.080	BACT
ARCHER DANIELS MIDLAND CO. - NORTHERN SUN VEG. OIL	ENDERLIN, ND	7/9/1998	YES	NEBRASKA BACKUP OIL BOILER	28	NONE INDICATED	0.086	BACT-PSD
NARRAGANSETT ELECTRIC/NEW ENGLAND POWER SERVICE	WESTBOROUGH, RI	4/13/1992	?	FUEL OIL AUXILIARY BOILER	40	GCP	0.100	BACT-PSD
INDECK-YERKES ENERGY SERVICES	ERIE, NY	6/24/1992	?	AUXILIARY BOILER	99	NO CONTROLS	0.100	BACT-OTHER
RINGIER AMERICA, INC. - AUGUSTA DIVISION	EVANS, GA	9/21/1993	?	BOILERS (2)	60	NONE INDICATED	0.500	OTHER
NORTHSTAR DEVELOPMENT PROJECT	ANCHORAGE, AK	2/5/1999	NO	MISCELLANEOUS HEATERS	68	GOOD OPERATIONS PRACTICES	?	SIP
ID NAT'L ENGINEERING AND ENVT'L LAB/NUCLEAR TECH	IDAHO FALLS, ID	6/26/2000	?	CPP-606 BLRS (4), INTEC PORTABLE BLR (1)	44	NONE INDICATED	?	SIP

ASSUMPTION: HEAT INPUT CONVERTED FROM GALLONS/DAY BASED ON FUEL HHV OF 140,000 BTU/GAL

FGR = FLUE GAS RECIRCULATION, LNB = LOW NOX BURNERS, GCP = GOOD COMBUSTION PRACTICES, FF = FABRIC FILTER

Appendix G
Recent BACT/LAER Determinations for Diesel Oil-Fired Auxiliary Boilers (10 - 100 MMBtu/hr)
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	OPER STATUS	EMISSION UNIT DESCRIPTION	HEAT INPUT MMBTU/HR	CONTROL DESCRIPTION	EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
CAITHNESS BELLPORT ENERGY CENTER	BELLPORT, NY	5/10/2006	YES	AUXILIARY BOILER	28	LOW SULFUR FUEL (< 0.04% S)	0.041	BACT-PSD
HARRISONBURG RESOURCE RECOVER FACILITY	HARRISONBURG, VA	3/24/2003	?	(2) ENGLISH BOILERS	43	GCP AND CEMS	0.051	NSPS
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	NO	DISTILLATE OIL AUXILIARY BOILER	99	LOW SULFUR OIL	0.051	BACT-PSD
ROCHE VITAMINS	WARREN CO., NJ	2/5/1999	YES	EMERGENCY GENERATOR BOILER	84	EMERGENCY GEN UNIT < 500 HR/YR	0.051	BACT-PSD
FAIRBAULT ENERGY PARK	RICE CO., MN	7/15/2004	NO	DISTILLATE OIL AUXILIARY BOILER	40	LOW SULFUR FUEL (< 0.05% S)	0.051	BACT-PSD
MERCK - RAHWAY PLANT	RAHWAY, NJ	1/14/1997	YES	NO. 2 OIL BOILERS (2)	100	NONE INDICATED	0.051	BACT-PSD
SITHE EDGAR DEVELOPMENT, LLC - FORE RIVER STATION	WEYMOUTH, MA	3/10/2000	YES	AUXILIARY BOILER (BACK-UP FUEL)	96	OPERATION LIMITED TO 500 HR/YR	0.052	BACT
BLACK HILLS POWER AND LIGHT COMPANY-NEIL SIMPSON U	5 MI E OF GILLETTE, WY	4/14/1993	YES	AUXILIARY DISTILLATE OIL BOILER	31	NONE INDICATED	0.100	NSPS
PANDA-ROSEMARY CORP.	ROANOKE RAPIDS, NC	9/6/1989	YES	(2) OIL-FIRED BOILER	81	FUEL SPEC: LOW S FUEL	0.210	BACT-PSD
TOYOTA MOTOR MANUFACTURING, USA, INC	GEORGETOWN, KY	5/29/1997	?	FUEL OIL BOILER	96	S CONTENT OF NO.2 FUEL < 0.3%	0.300	BACT-PSD
WGPP, INCORPORATED	LEWISTON, ME	5/20/1993	NO	#2 FUEL OIL BOILER	92	LIMIT 0.3% SULFUR IN FUEL OIL	0.300	BACT-PSD
NARRAGANSETT ELECTRIC/NEW ENGLAND POWER SERVICE	WESTBOROUGH, RI	4/13/1992	?	FUEL OIL AUXILIARY BOILER	40	FUEL OIL < 0.3% S BY WT	0.315	BACT-PSD
CHAMBERS COGENERATION LIMITED PARTNERSHIP (CCLP)	CARNEY'S POINT, NJ	11/5/1990	?	AUXILIARY BOILER	77	NONE INDICATED	0.316	BACT-OTHER
CENTRAL SOYA COMPANY INC.	BELLEVUE, OH	11/29/2001	YES	NO 2 FUEL OIL BOILER	87	NONE INDICATED	0.500	SIP
LOUISIANA-PACIFIC CORP.--NORTHERN DIV.	DUNGANNON, VA	3/15/1995	?	KONUS THERMAL OIL HEATER	31	CYCLONE IN SERIES WITH BAGHOUSE	0.500	BACT-OTHER
TOLEDO SUPPLIER PARK- PAINT SHOP	OHIO	5/3/2007	?	BOILER (2), NO. 2 FUEL OIL	20	NONE INDICATED	0.510	BACT-PSD
TULTEX CORP.	MARTINSVILLE, VA	12/18/1986	NO	OIL FIRED CLEAVER-BROOKS BOILER	93	FUEL SPEC: 0.5% S IN OIL BY WT	0.510	BACT-PSD
STANLEY FURNITURE	HENRY CO., VA	12/1/2002	?	KEWANEE BOILER	25	NONE INDICATED	0.548	BACT-OTHER
ID NAT'L ENGINEERING AND ENV'TL LAB/NUCLEAR TECH	IDAHO FALLS, ID	6/26/2000	?	CPP-606 BLRS (4), INTEC PORTABLE BLR (1)	44	FUEL < 0.3% S BY WT	1.234	BACT-PSD
NORTHSTAR DEVELOPMENT PROJECT	ANCHORAGE, AK	2/5/1999	NO	MISCELLANEOUS HEATERS	68	FUEL OIL S < 0.15% BY WT	2.710	SIP
RINGIER AMERICA, INC. - AUGUSTA DIVISION	EVANS, GA	9/21/1993	?	BOILERS (2)	60	S CONTENT IN FUEL OIL < 2.5% S BY WT	4.100	BACT-PSD
SMITH KLINE CORP.	UPPER MERION, PA	1/25/1980	YES	BOILERS (2)	32	NONE INDICATED	NONE	BACT-PSD

ASSUMPTION: HEAT INPUT CONVERTED FROM GALLONS/DAY BASED ON FUEL HHV OF 140,000 BTU/GAL
S = SULFUR, GCP = GOOD COMBUSTION PRACTICES, CEMS = CONTINUOUS EMISSION MONITORING SYSTEMS

Appendix G
Recent BACT/LAER Determinations for Emergency Diesel Generators
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	NOx EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	EMERGENCY GENERATOR	11.4	NONE INDICATED	0.288	BACT-PSD
USAF EARECKSON AIR STATION	ANCHORAGE, AK	9/29/2003	DIESEL FUEL IC ENGINE GENERATORS (2)	32.2	SCR	0.301	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	(2) BLACK START GENERATORS	58.5	OPERATION < 200 HR/YR	0.455	BACT-PSD
UNION OIL CO. OF CALIFORNIA	KENAI, AK	8/4/1989	GENERATOR, EMERGENCY DIESEL FIRED	449	NONE INDICATED	0.909	BACT-PSD
OHIO RIVER CLEAN FUELS, LLC	COLUMBIAN, OH	11/20/2008	EMERGENCY GENERATOR	23.38	GOOD COMBUSTION PRACTICES, GOOD ENGINE DESIGN, IGNITION	1.132	BACT-PSD
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY GENERATOR	24.12	NSPS IIII CERTIFIED	1.153	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	LINN, IA	6/29/2007	EMERGENCY GENERATOR	16.1	NONE INDICATED	1.240	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY GENERATOR	7.8	GCP	1.268	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	EMERGENCY GENERATOR	7.51	NONE INDICATED	1.274	BACT-PSD
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	EMERGENCY GENERATOR	10.9	NONE INDICATED	1.315	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	17.60	NONE INDICATED	1.315	BACT-PSD
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	EMERGENCY GENERATOR ENGINE	8.05	TIER 2 ENGINE-BASED,GOOD COMBUSTION PRACTICES (GCP)	1.315	BACT-PSD
LONGVIEW POWER, LLC	MAIDSVILLE, WV	3/2/2004	EMERGENCY GENERATOR	14.4	GOOD COMBUSTION PRACTICES	1.450	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	EMERGENCY GENERATOR	13.7	GCP	1.710	BACT-PSD
DUTCH HARBOR SEAFOOD PROCESSING FAC	ALEUTIANS WEST, AK	10/10/2003	FUEL OIL IC ENGINE GENERATORS (3)	23.8	WATER INJECTION AND LOW NOX DESIGN	1.780	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL-FIRED GENERATOR	6.8	LOW SULFUR FUEL COMBUSTION CONTROL	1.812	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	NONE	1.858	OTHER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	EMERGENCY GENERATOR	8	NONE INDICATED	1.900	LAER
DUKE ENERGY HANGING ROCK, LLC	LAWRENCE, OH	12/28/2004	BACKUP GENERATORS (2)	5.4	NONE INDICATED	1.900	BACT-PSD
HARTFORD INSURANCE CO.	SIMSBURY, CT	8/30/1989	GENERATOR, EMERGENCY STANDBY DIESEL FIRED	10.2	LIMIT HRS OF OPERATION	1.961	BACT-PSD
CARDINAL FG CO./ CARDINAL GLASS PLANT	OKLAHOMA	3/18/2003	IC ENGINES, EMERGENCY GENERATORS (2)	22.8	ENGINE DESIGN & LIMIT OPER (<500 H/YR)	2.035	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	2.052	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	2.052	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	IC ENGINE EMERGENCY DIESEL GENERATOR	17.1	SCR	2.189	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	1500 KW EMERGENCY GENERATOR	17.3	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICES	2.189	BACT-PSD
NOME JOINT UTILITIES - SNAKE RIVER	NOME, AK	11/5/2004	WARTSILA DIESEL ELECTRIC GENERATORS (3)	55.9	FUEL INJECTION RETARD/LOW TEMP COOLING WATER SYS	2.400	BACT-PSD
BROOKLYN NAVY YARD COGENERATION	NEW YORK CITY, NY	6/6/1995	GENERATOR, 3000 KW EMERGENCY	34.2	NONE INDICATED	2.600	LAER
SCE&G - JASPER COUNTY GENERATING	COLUMBIA, SC	5/23/2002	GENERATOR, EMERGENCY DIESEL FUEL	22.8	NONE INDICATED	2.609	BACT-PSD
SOUTH CAROLINA ELECTRIC AND GAS	COPE, SC	7/15/1992	GENERATOR, NO 2 OIL - EMERGENCY	4.6	NONE INDICATED	2.872	BACT-PSD
REDBUD POWER PLT PEREZ	OKLAHOMA	5/6/2002	DIESEL ENGINE, EMERGENCY GENERATOR	14.0	NONE INDICATED	3.113	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	9/29/2005	EMERGENCY GENERATOR	11.4	PROPER OPERATION AND MAINTENANCE OF EQUIPMENT	3.200	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL GENERATORS (2)	17.2	NONE INDICATED	3.200	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	EMERGENCY GENERATOR	49	LIMITED USE	3.258	LAER
MN MUNICIPAL POWER AGENCY - FAIRBAULT	RICE, MN	7/15/2004	FUEL OIL IC ENGINE GENERATOR	4.9	GOOD COMBUSTION PRACTICES	3.280	BACT-PSD
BRISTOL HOSPITAL, INC.	BRISTOL, CT	10/24/1989	GENERATOR, EMERGENCY DIESEL FIRED	7.14	NONE INDICATED	3.350	BACT-PSD
MANKATO ENERGY CENTER	BLUE EARTH, MN	12/4/2003	EMERGENCY GENERATOR	14.8	GOOD COMBUSTION PRACTICES	3.500	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	STARTUP & EMERGENCY ELEC GENERATOR	15.5	NONE INDICATED	3.517	OTHER
KC PUBLIC UTILITIES - NEARMAN CREEK	WYANDOTTE, KS	10/18/2005	EMERGENCY BLACK START GENERATOR	24.1	NONE INDICATED	3.519	BACT-PSD
ACE ETHANOL - STANLEY	CHIPPEWA, WI	1/21/2004	DIESEL GENERATOR SET	14.8	NONE INDICATED	3.583	BACT-PSD
WEPCO - PORT WASHINGTON STATION	WASHINGTON, WI	10/13/2004	DIESEL ENGINE GENERATOR	7.6	ENGINE DESIGN	3.600	BACT-PSD
ROCKINGHAM POWER, LLC POWER GEN	NORTH CAROLINA	6/30/1999	IC ENGINE, EMERGENCY GENERATOR	2.9	LIMITED TO 500 H/YR	3.648	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(8) EMERGENCY GENERATOR ENGINES EMGEN1-8	3.1	NONE INDICATED	4.021	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	EMERGENCY GENERATOR	10.1	GCP, 250 HR/YR	4.113	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	(6) BLACK START DIESEL GENERATORS	19.1	GCP, 500 HR/YR	4.350	BACT-PSD
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	EMERGENCY GENERATOR E-GEN	3.5	NONE INDICATED	4.849	OTHER
NAVY PUBLIC WORKS CENTER	NORFOLK, VA	5/16/1994	1 EMERGENCY GENERATOR	17.1	RETARD TIMING 6 DEGREES	10.641	NSPS

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED FROM KW, GAL/HR, G/KWH & LB/HP-HR BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES, SCR = SELECTIVE CATALYTIC REDUCTION

Appendix G
Recent BACT/LAER Determinations for Emergency Diesel Generators
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	CO EMISSION	PERMIT
						LIMIT (LB/MMBTU)	LIMIT BASIS
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	EMERGENCY GENERATOR	49.0	GCP	0.023	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	EMERGENCY GENERATOR	5.2	GCP, TIMING RETARD	0.042	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	EMERGENCY GENERATOR	11.4	NONE INDICATED	0.077	BACT-PSD
USAF EARECKSON AIR STATION	ANCHORAGE, AK	9/29/2003	FUEL OIL IC ENGINE GENERATORS (2)	32.2	OXIDATION CATALYST	0.137	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	IC ENGINE EMERGENCY DIESEL GENERATOR	17.1	OXIDATION CATALYST	0.178	BACT-PSD
NOME JOINT UTILITIES - SNAKE RIVER	NOME, AK	11/5/2004	WARTSILA DIESEL ELECTRIC GENERATORS (3)	55.9	GOOD COMBUSTION PRACTICES	0.188	BACT-PSD
CARDINAL FG CO./ CARDINAL GLASS PLANT	OKLAHOMA	3/18/2003	IC ENGINES, EMERGENCY GENERATORS (2)	22.8	ENGINE DESIGN, LIMIT HOURS (<500 H/YR)	0.202	BACT-PSD
SOUTH CAROLINA ELECTRIC AND GAS	COPE, SC	7/15/1992	GENERATOR, NO 2 OIL - EMERGENCY	4.6	NONE INDICATED	0.219	BACT-PSD
BRISTOL HOSPITAL, INC.	BRISTOL, CT	10/24/1989	GENERATOR, EMERGENCY DIESEL FIRED	7.1	NONE INDICATED	0.230	BACT-PSD
BROOKLYN NAVY YARD COGEN	NEW YORK CITY, NY	6/6/1995	GENERATOR, 3000 KW EMERGENCY	34.2	NONE INDICATED	0.250	LAER
ACE ETHANOL - STANLEY	CHIPPEWA, WI	1/21/2004	DIESEL GENERATOR SET	14.8	NONE INDICATED	0.276	BACT-PSD
MANKATO ENERGY CENTER	BLUE EARTH, MN	12/4/2003	EMERGENCY GENERATOR	14.8	GOOD COMBUSTION PRACTICES	0.276	BACT-PSD
KC PUBLIC UTILITIES - NEARMAN CREEK	WYANDOTTE, KS	10/18/2005	EMERGENCY BLACK START GENERATOR	24.1	GOOD COMBUSTION PRACTICES	0.291	BACT-PSD
UNION OIL CO. OF CALIFORNIA	KENAI, AK	8/4/1989	GENERATOR, EMERGENCY DIESEL FIRED	449.0	NONE INDICATED	0.294	BACT-PSD
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	EMERGENCY GENERATOR E-GEN	3.5	NONE INDICATED	0.317	OTHER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	EMERGENCY GENERATOR	8.0	GOOD COMBUSTION PRACTICES	0.369	BACT-PSD
KENAI REFINERY	KENAI, AK	3/21/2000	EMERGENCY GENERATOR CF-G-70003	22.8	GOOD OPERATIONAL PRACTICES & MAINT	0.377	BACT-PSD
KENAI REFINERY	KENAI, AK	3/21/2000	EMERGENCY GENERATOR CF-G-70004	22.8	GOOD OPERATIONAL PRACTICES & MAINT	0.377	BACT-PSD
SUMPTER POWER PLANT	WAYNE, MI	11/17/2011	DIESEL FUEL FIRED COMBUSTION ENGINE (RICE)	5.9	GCP	0.500	BACT-PSD
LONGVIEW POWER, LLC	MAIDSVILLE, WV	3/2/2004	EMERGENCY GENERATOR	14.4	GOOD COMBUSTION PRACTICES	0.614	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	STARTUP & EMERGENCY ELEC GENERATOR	15.5	NONE INDICATED	0.691	OTHER
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	EMERGENCY GENERATOR	23.38	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.649	BACT-PSD
CONSUMERS ENERGY	BAY, MI	12/29/2009	EMERGENCY GENERATOR	22.8	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.677	BACT-PSD
SCE&G - JASPER COUNTY GENERATING	COLUMBIA, SC	5/23/2002	GENERATOR, EMERGENCY DIESEL FUEL	22.8	NONE INDICATED	0.693	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	(2) BLACK START GENERATORS	58.5	OPERATION < 200 HR/YR	0.697	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	1500 KW EMERGENCY GENERATOR	17.3	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICE	0.705	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	LINN, IA	6/29/2007	EMERGENCY GENERATOR	16.1	NONE INDICATED	0.716	BACT-PSD
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	EMERGENCY GENERATOR ENGINE	8.05	TIER 2 ENGINE-BASED, GOOD COMBUSTION PRACTICES (GCP)	0.719	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	17.60	NONE INDICATED	0.719	BACT-PSD
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	EMERGENCY GENERATOR	10.9	NONE INDICATED	0.719	BACT-PSD
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY GENERATOR	24.1	NONE INDICATED	0.719	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY GENERATOR	7.8	NONE INDICATED	0.742	BACT-PSD
MN MUNICIPAL POWER AGENCY - FAIRBAULT	RICE, MN	7/15/2004	FUEL OIL IC ENGINE GENERATOR	4.9	GOOD COMBUSTION PRACTICES	0.760	BACT-PSD
ROCKINGHAM POWER, LLC POWER GEN	NORTH CAROLINA	6/30/1999	IC ENGINE, EMERGENCY GENERATOR	2.9	LIMITED TO 500 H/YR OF OPERATION	0.786	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	NONE	0.787	OTHER
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	EMERGENCY GENERATOR	13.7	GCP	0.850	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	9/29/2005	EMERGENCY GENERATOR	11.4	PROPER OPERATION AND MAINTENANCE OF EQUIPMENT	0.850	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL GENERATORS (2)	17.2	NONE INDICATED	0.850	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(8) EMERGENCY GENERATOR ENGINES EMGEN1-8	3.1	NONE INDICATED	0.876	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	EMERGENCY GENERATOR	10.1	GCP, 250 HR/YR	0.886	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	(6) BLACK START DIESEL GENERATORS	19.1	GCP, 500 HR/YR	0.937	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	1.530	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	1.530	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL-FIRED GENERATOR	6.8	LOW SULFUR FUEL COMBUSTION CONTROL	2.222	BACT-PSD
DUKE ENERGY HANGING ROCK, LLC	LAWRENCE, OH	12/28/2004	BACKUP GENERATORS (2)	5.4	NONE INDICATED	2.349	BACT-PSD
WEPCO - PORT WASHINGTON STATION	WASHINGTON, WI	10/13/2004	DIESEL ENGINE GENERATOR	7.6	ENGINE DESIGN	2.480	BACT-PSD
NAVY PUBLIC WORKS CENTER	NORFOLK, VA	5/16/1994	1 EMERGENCY GENERATOR	17.1	RETARD TIMING 6 DEGREES	3.368	NSPS
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	8.0	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	5.766	BACT-PSD
REDBUD POWER PLT PEREZ"	OKLAHOMA	5/6/2002	DIESEL ENGINE, EMERGENCY GENERATOR	14.0	ENGINE DESIGN	7.134	BACT-PSD
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	12/3/2012	EMERGENCY DIESEL GENERATOR	10.0	GCP	7.165	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	EMERGENCY DIESEL GENERATOR	16.1	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	11.533	BACT-PSD

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED FROM KW, GAL/HR, G/KWH & LB/HP-HR BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G **Recent BACT/LAER Determinations for Emergency Diesel Generators** **Volatile Organic Compound Emissions**

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	VOC EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	EMERGENCY GENERATOR	11.4	NONE INDICATED	0.007	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	EMERGENCY GENERATOR	5.2	GCP, TIMING RETARD	0.014	BACT-PSD
ACE ETHANOL - STANLEY	CHIPPEWA, WI	1/21/2004	DIESEL GENERATOR SET	14.8	NONE INDICATED	0.033	BACT-PSD
MANKATO ENERGY CENTER	BLUE EARTH, MN	12/4/2003	EMERGENCY GENERATOR	14.8	GOOD COMBUSTION PRACTICES	0.033	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	EMERGENCY GENERATOR	7.51	NONE INDICATED	0.041	BACT-PSD
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	EMERGENCY GENERATOR E-GEN	3.5	NONE INDICATED	0.057	OTHER
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	EMERGENCY GENERATOR	23.38	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.059	BACT
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	EMERGENCY DIESEL GENERATOR	16.10	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.065	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	IC ENGINE EMERGENCY DIESEL GENERATOR	17.1	GOOD COMBUSTION CONTROL	0.068	LAER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	EMERGENCY GENERATOR	8.0	GOOD COMBUSTION PRACTICES	0.069	LAER
SCE&G - JASPER COUNTY GENERATING FACILITY	COLUMBIA, SC	5/23/2002	GENERATOR, EMERGENCY DIESEL FUEL	22.8	NONE INDICATED	0.075	LAER
ADM CORN PROCESSING - CEDAR RAPIDS	LINN, IA	6/29/2007	EMERGENCY GENERATOR	16.1	NONE INDICATED	0.083	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	STARTUP & EMERGENCY ELEC GENERATOR	15.5	NONE INDICATED	0.084	OTHER
LONGVIEW POWER, LLC	MAIDSVILLE, WV	3/2/2004	EMERGENCY GENERATOR	14.4	GOOD COMBUSTION PRACTICES	0.084	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	17.60	GOOD COMBUSTION	0.088	OTHER
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY GENERATOR	7.80	NONE INDICATED	0.090	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL GENERATORS (2)	17.2	NONE INDICATED	0.090	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	EMERGENCY GENERATOR	13.7	GCP	0.090	BACT-PSD
REDBUD POWER PLT PEREZ"	OKLAHOMA	5/6/2002	DIESEL ENGINE, EMERGENCY GENERATOR	14.0	ENGINE DESIGN	0.091	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	9/29/2005	EMERGENCY GENERATOR	11.4	PROPER OPERATION AND MAINTENANCE OF EQUIPMENT	0.091	BACT-PSD
CARDINAL FG CO./ CARDINAL GLASS PLANT	OKLAHOMA	3/18/2003	IC ENGINES, EMERGENCY GENERATORS (2)	22.8	ENGINE DESIGN, LIMIT OPERATION (<500 H/YR)	0.095	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	1500 KW EMERGENCY GENERATOR	17.3	GOOD COMBUSTION PRACTICES	0.096	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	NONE	0.099	OTHER
MN MUNICIPAL POWER AGENCY - FAIRBAULT	RICE, MN	7/15/2004	FUEL OIL IC ENGINE GENERATOR	4.9	GOOD COMBUSTION PRACTICES	0.100	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.127	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.127	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST. JOSEPH, IN	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	8.0	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.129	BACT-PSD
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	Emergency generator	24.1	Purchased certified to the standards in NSPS Subpart IIII	0.163	BACT-PSD
DUKE ENERGY HANGING ROCK, LLC	LAWRENCE, OH	12/28/2004	BACKUP GENERATORS (2)	5.4	NONE INDICATED	0.205	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	EMERGENCY GENERATOR	49.0	GOOD COMBUSTION	0.246	LAER
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL-FIRED GENERATOR	6.8	LOW SULFUR FUEL COMBUSTION CONTROL	0.257	BACT-PSD
WEPCO - PORT WASHINGTON STATION	WASHINGTON, WI	10/13/2004	DIESEL ENGINE GENERATOR	7.6	ENGINE DESIGN	0.283	BACT-PSD
ROCKINGHAM POWER, LLC POWER GENERATING	NORTH CAROLINA	6/30/1999	IC ENGINE, EMERGENCY GENERATOR	2.9	LIMITED TO 500 H/YR OF OPERATION	0.295	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(8) EMERGENCY GENERATOR ENGINES EMGEN1-8	3.1	NONE INDICATED	0.324	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	EMERGENCY GENERATOR	10.1	GCP, 250 HR/YR	0.334	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	(6) BLACK START DIESEL GENERATORS	19.1	GCP, 500 HR/YR	0.353	BACT-PSD
UNION OIL CO. OF CALIFORNIA"	KENAI, AK	8/4/1989	GENERATOR, EMERGENCY DIESEL FIRED	449.0	NONE INDICATED	0.641	BACT-PSD
BRISTOL HOSPITAL, INC."	BRISTOL	10/24/1989	GENERATOR, EMERGENCY DIESEL FIRED	7.1	NONE INDICATED	0.730	BACT-PSD
NAVY PUBLIC WORKS CENTER	NORFOLK, VA	5/16/1994	1 EMERGENCY GENERATOR	17.1	RETARD TIMING 6 DEGREES	0.959	NSPS
CONSUMERS ENERGY	BAY, MI	12/29/2009	EMERGENCY GENERATOR	22.8	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL	1.237	OTHER
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	EMERGENCY GENERATOR ENGINE	8.05	TIER 2 ENGINE-BASED,GOOD COMBUSTION PRACTICES (GCP)	1.315	OTHER
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	EMERGENCY DIESEL GENERATOR	10.00	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	2.756	BACT-PSD

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED FROM KW, GAL/HR, G/KWH & LB/HP-HR BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Emergency Diesel Generators
Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	PM/PM-10 EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	EMERGENCY GENERATOR	11.4	NONE INDICATED	0.004	BACT-PSD
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	EMERGENCY GENERATOR	10.9	NONE INDICATED	0.004	BACT-PSD
ACE ETHANOL - STANLEY	CHIPPEWA, WI	1/21/2004	DIESEL GENERATOR SET	14.8	LOW SULFUR FUEL	0.019	BACT-PSD
MANKATO ENERGY CENTER	BLUE EARTH, MN	12/4/2003	EMERGENCY GENERATOR	14.8	GOOD COMBUSTION PRACTICES	0.019	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	STARTUP & EMERGENCY ELEC GENERATOR	15.5	NONE INDICATED	0.032	OTHER
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	EMERGENCY GENERATOR	23.38	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.037	BACT-PSD
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY GENERATOR	24.12	NSPS IIII CERTIFIED	0.041	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, IJ	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	17.60	NONE INDICATED	0.041	BACT-PSD
CONSUMERS ENERGY	BAY, MI	12/29/2009	EMERGENCY GENERATOR	21.46	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.041	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	EMERGENCY GENERATOR	7.51	NONE INDICATED	0.041	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	EMERGENCY GENERATOR	7.51	NONE INDICATED	0.041	BACT-PSD
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	EMERGENCY DIESEL GENERATOR ENGINE	8.05	TIER 2 ENGINE-BASED,GOOD COMBUSTION PRACTICES (GCP)	0.041	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	LINN, IA	6/29/2007	EMERGENCY GENERATOR	16.1	NONE INDICATED	0.041	BACT-PSD
CARDINAL FG CO./ CARDINAL GLASS PLANT	OKLAHOMA	3/18/2003	IC ENGINES, EMERGENCY GENERATORS (2)	22.8	ENGINE DESIGN	0.044	BACT-PSD
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	EMERGENCY GENERATOR E-GEN	3.5	NONE INDICATED	0.045	OTHER
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	IC ENGINE EMERGENCY DIESEL GENERATOR	17.1	GOOD COMBUSTION CONTROL	0.051	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	1500 KW EMERGENCY GENERATOR	17.3	GOOD COMBUSTION PRACTICES	0.053	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	EMERGENCY GENERATOR	49	LIMITED USE	0.054	BACT-PSD
CONSUMERS ENERGY	BAY, MI	12/29/2009	EMERGENCY GENERATOR	21.46	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.057	BACT-PSD
KENAI REFINERY	KENAI, AK	3/21/2000	EMERGENCY GENERATOR CF-G-70003	22.8	GOOD OPERATIONAL PRACTICES & MAINT	0.057	BACT-PSD
KENAI REFINERY	KENAI, AK	3/21/2000	EMERGENCY GENERATOR CF-G-70004	22.8	GOOD OPERATIONAL PRACTICES & MAINT	0.057	BACT-PSD
SUMPTER POWER PLANT	WAYNE, MI	11/17/2011	DIESEL FUEL FIRED COMBUSTION ENGINE (RICE)	5.9	GOOD COMBUSTION PRACTICES	0.057	BACT-PSD
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	EMERGENCY GENERATOR	8.0	CLEAN FUELS	0.059	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL GENERATORS (2)	17.2	NONE INDICATED	0.063	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	EMERGENCY GENERATOR	5.2	GCP, TIMING RETARD	0.066	BACT-PSD
LONGVIEW POWER, LLC	MAIDSVILLE, WV	3/2/2004	EMERGENCY GENERATOR	14.4	GOOD COMBUSTION PRACTICES	0.078	BACT-PSD
SCE&G - JASPER COUNTY GENERATING FACILITY	COLUMBIA, SC	5/23/2002	GENERATOR, EMERGENCY DIESEL FUEL	22.8	CLEAN FUEL(LOW SULFUR DIESEL) GCP	0.083	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.091	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.091	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	NONE	0.099	OTHER
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	NONE	0.099	OTHER
FORSYTH ENERGY PLANT	FORSYTH CO., NC	9/29/2005	EMERGENCY GENERATOR	11.4	PROPER OPERATION AND MAINTENANCE OF EQUIPMENT	0.100	BACT-PSD
MN MUNICIPAL POWER AGENCY - FAIRBAULT	RICE, MN	7/15/2004	FUEL OIL IC ENGINE GENERATOR	4.9	CLEAN FUELS AND GOOD COMBUSTION PRACTICES	0.100	BACT-PSD
BRISTOL HOSPITAL, INC.	BRISTOL, CT	10/24/1989	GENERATOR, EMERGENCY DIESEL FIRED	7.14	NONE INDICATED	0.100	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL-FIRED GENERATOR	6.8	LOW SULFUR FUEL COMBUSTION CONTROL	0.105	BACT-PSD
DUKE ENERGY HANGING ROCK, LLC	LAWRENCE, OH	12/28/2004	BACKUP GENERATORS (2)	5.4	NONE INDICATED	0.110	BACT-PSD
HARTFORD INSURANCE CO.	SIMSBURY, CT	8/30/1989	GENERATOR, EMERGENCY STANDBY DIESEL FIRED	10.2	NONE INDICATED	0.110	BACT-PSD
WEPCO - PORT WASHINGTON STATION	WASHINGTON, WI	10/13/2004	DIESEL ENGINE GENERATOR	7.6	CLEAN FUELS	0.117	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	EMERGENCY GENERATOR	13.7	GCP	0.140	BACT-PSD
ROCKINGHAM POWER, LLC POWER GENERATING	NORTH CAROLINA	6/30/1999	IC ENGINE, EMERGENCY GENERATOR	2.9	LIMITED TO 500 H/YR OF OPERATION	0.260	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(8) EMERGENCY GENERATOR ENGINES EMGEN1-8	3.1	NONE INDICATED	0.292	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	EMERGENCY GENERATOR	10.1	SULFUR LIMITED TO 0.05% BY WEIGHT, 250 HR/YR	0.292	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	(6) BLACK START DIESEL GENERATORS	19.1	SULFUR LIMITED TO 0.05% BY WEIGHT, 500 HR/YR	0.309	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	8	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.333	BACT-PSD
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	EMERGENCY DIESEL GENERATOR	10	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.413	BACT-PSD
NAVY PUBLIC WORKS CENTER	NORFOLK, VA	5/16/1994	1 EMERGENCY GENERATOR	17.1	NO CONTROLS FEASIBLE	0.491	NSPS
ST. JOSEPH ENEGRY CENTER, LLC	ST. JOSEPH, IN	12/3/2012	EMERGENCY DIESEL GENERATOR	16.1	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.665	BACT-PSD
POINT THOMSON PRODUCTION FACILITY	NORTH SLOPE, AK	8/20/2012	DIESEL ICES	18.8	NONE INDICATED	0.772	BACT-PSD
DUTCH HARBOR POWER PLANT	ALASKA	7/14/2011	EU15 CATERPILLAR C-280-16	47.2	POSITIVE CRANKCASE VENTILATION AS PART OF DESIGN	4.850	BACT-PSD

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED FROM KW, GAL/HR, G/KWH & LB/HP-HR BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Emergency Diesel Generators
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	SO ₂ EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
AES WOLF HOLLOW LP	AUSTIN, TX	7/20/2000	EMERGENCY GENERATOR E-GEN	3.5	NONE INDICATED	0.0006	OTHER
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY GENERATOR	24.1	NONE INDICATED	0.0012	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY GENERATOR	7.8	NONE INDICATED	0.0013	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST. JOSEPH, IN	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	8.0	ULTRA LOW SULFUR DISTILLATE AND USAGE LIMITS	0.0015	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST. JOSEPH, IN	12/3/2012	EMERGENCY DIESEL GENERATOR	16.1	ULTRA LOW SULFUR DISTILLATE AND UASGE LIMITS	0.0015	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	EMERGENCY GENERATOR	11.4	LOW SULFUR FUEL	0.004	BACT-PSD
CR WING COGENERATION PLANT	BIG SPRING, TX	10/12/1999	STARTUP & EMERGENCY ELEC GENERATOR	15.5	NONE INDICATED	0.032	OTHER
SCE&G - JASPER COUNTY GENERATING FACILITY	COLUMBIA, SC	5/23/2002	GENERATOR, EMERGENCY DIESEL FUEL	22.8	LOW SULFUR (0.05%) DIESEL	0.039	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	EMERGENCY GENERATOR	7.51	NONE INDICATED	0.047	BACT-PSD
ADM CORN PROCESSING - CEDAR RAPIDS	LINN, IA	6/29/2007	EMERGENCY GENERATOR	16.1	LOW SULFUR FUEL (0.05% BY WEIGHT)	0.050	BACT-PSD
KC PUBLIC UTILITIES - NEARMAN CREEK	WYANDOTTE, KS	10/18/2005	EMERGENCY BLACK START GENERATOR	24.1	LOW SULFUR FUEL (0.05% BY WEIGHT)	0.050	BACT-PSD
DUKE ENERGY HANGING ROCK, LLC	LAWRENCE, OH	12/28/2004	BACKUP GENERATORS (2)	5.4	LOW SULFUR FUEL	0.050	BACT-PSD
WEPCO - PORT WASHINGTON STATION	WASHINGTON, WI	10/13/2004	DIESEL ENGINE GENERATOR	7.6	LOW SULFUR FUEL (0.05% BY WEIGHT)	0.050	BACT-PSD
AES RED OAK LLC	SAYREVILLE, NJ	10/24/2001	EMERGENCY GENERATOR	49	LOW SULFUR FUEL	0.050	BACT-PSD
CARDINAL FG CO./ CARDINAL GLASS PLANT	OKLAHOMA	3/18/2003	IC ENGINES, EMERGENCY GENERATORS (2)	22.8	LOW SULFUR FUEL, < 0.05% S	0.050	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	17.60	NONE INDICATED	0.051	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	9/29/2005	EMERGENCY GENERATOR	11.4	PROPER OPERATION AND MAINTENANCE OF EQUIPMENT	0.051	BACT-PSD
MN MUNICIPAL POWER AGENCY - FAIRBAULT	RICE, MN	7/15/2004	FUEL OIL IC ENGINE GENERATOR	4.9	FUEL SULFUR LIMIT (0.05% BY WEIGHT)	0.051	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	EMERGENCY GENERATOR	13.7	GCP AND LOW SULFUR FUEL	0.052	BACT-PSD
SITHE MYSTIC DEVELOPMENT LLC	CHARLESTOWN, MA	9/29/1999	IC ENGINE EMERGENCY DIESEL GENERATOR	17.1	FUEL SULFUR AND HOURS PER YEAR LIMITS	0.056	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	EMERGENCY GENERATOR	14.1	SULFUR IN OIL LIMITED TO 0.05% BY WEIGHT.	0.057	OTHER
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL-FIRED GENERATOR	6.8	LOW SULFUR FUEL COMBUSTION CONTROL	0.058	BACT-PSD
ODESSA-ECTOR GENERATING STATION	DALLAS, TX	11/18/1999	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.083	BACT-PSD
ARCHER GENERATING STATION	FARMERS BRANCH, TX	1/3/2000	EMERGENCY ELECTRICAL GENERATOR	22.8	NONE INDICATED	0.083	BACT-PSD
BP EXPLORATION ALASKA - BADAMI CENTER	N SLOPE BRGH, AK	8/19/2005	CUMMINS IC ENGINE GENERATOR	14.8	NONE INDICATED	0.150	BACT-PSD
MANKATO ENERGY CENTER	BLUE EARTH, MN	12/4/2003	EMERGENCY GENERATOR	14.8	LOW SULFUR FUEL	0.163	BACT-PSD
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	EMERGENCY GENERATOR	8.0	LOW SULFUR FUEL	0.203	BACT-PSD
BRISTOL HOSPITAL, INC.	BRISTOL, CT	10/24/1989	GENERATOR, EMERGENCY DIESEL FIRED	7.14	NONE INDICATED	0.220	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	(8) EMERGENCY GENERATOR ENGINES EMGEN1-8	3.1	NONE INDICATED	0.259	BACT-PSD
SOUTH CAROLINA ELECTRIC AND GAS COMPANY	COPE, SC	7/15/1992	GENERATOR, NO 2 OIL - EMERGENCY	4.6	FUEL SPEC: 0.3% S FUEL; LIMIT OPER <500 HOURS/YEAR	0.263	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	EMERGENCY GENERATOR	10.1	SULFUR LIMITED TO 0.05% BY WEIGHT, 250 HR/YR	0.272	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	(6) BLACK START DIESEL GENERATORS	19.1	SULFUR LIMITED TO 0.05% BY WEIGHT, 500 HR/YR	0.288	BACT-PSD
REDBUD POWER PLT PEREZ	OKLAHOMA	5/6/2002	DIESEL ENGINE, EMERGENCY GENERATOR	14.0	NONE INDICATED	0.400	BACT-PSD
LONGVIEW POWER, LLC	MAIDSVILLE, WV	3/2/2004	EMERGENCY GENERATOR	14.4	SULFUR IN FUEL	0.451	BACT-PSD
NOME JOINT UTILITIES - SNAKE RIVER	NOME, AK	11/5/2004	WARTSILA DIESEL ELECTRIC GENERATORS (3)	55.9	FUEL SULFUR LIMIT (0.5% BY WEIGHT)	0.500	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL GENERATORS (2)	17.2	FUEL SULFUR LIMIT	0.500	BACT-PSD
NAVY PUBLIC WORKS CENTER	NORFOLK, VA	5/16/1994	1 EMERGENCY GENERATOR	17.1	NO CONTROLS FEASIBLE	0.982	NSPS

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED FROM KW, GAL/HR, G/KWH & LB/HP-HR BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Diesel Fire Pumps
Nitrogen Oxides Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	NOx EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	EMERGENCY ENGINE 1 THRU 8	0.23	NSPS SUBPART IIII CERTIFIED	0.358	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	EMERGENCY FIRE PUMP ENGINE	2.42	OPERATION < 200 HR/YR	0.414	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY FIREWATER PUMP	3.25	NONE INDICATED	0.572	BACT
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY FIRE PUMP ENGINE	2.40	NSPS SUBPART IIII CERTIFIED	0.708	BACT
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	FIRE PUMP ENGINE	4.60	NONE INDICATED	0.802	BACT
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	FIRE PUMP ENGINE	2.52	TIER 3 ENGINE-BASEDGOOD COMBUSTION PRACTICES (GCP)	0.822	BACT
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	FIRE WATER PUMPS (2)	5.46	NONE INDICATED	0.822	BACT-PSD
FLOPAM INC. FACILITY	IBERVILLE, LA	4/26/2011	SMALL GENERATOR ENGINE	1.54	NONE INDICATED	0.829	BACT
LA COUNTY PROBATION/FAC PLANNING/ISD	LOS ANGELES, CA	8/14/2003	IC ENGINE FIRE PUMP	1.92	FUEL INJECTION RETARD-AFTER COOLER BY RAW WATER	1.160	BACT-PSD
PALMDALE HYBRID POWER PROJECT	LOS ANGELES, CA	10/18/2011	EMERGENCY IC ENGINE	1.46	NONE INDICATED	1.198	BACT
AES WOLF HOLLOW LP	HOOD CO., TX	7/20/2000	EMERGENCY FIREWATER PUMP	2.00	NONE INDICATED	1.200	Other Case-by-Case
PASNY/HOLTSVILLE COMBINED CYCLE PLANT	HOLTSVILLE, NY	9/1/1992	DIESEL FIRE PUMP	1.30	LEAN BURN ENGINE	1.300	BACT-OTHER
HOLLAND ENERGY, LLC	HOLLAND, IL	12/3/2001	BACKUP DIESEL FIRE PUMP	1.40	NONE INDICATED	1.429	BACT-PSD
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	1.480	BACT-OTHER
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	1.480	BACT-OTHER
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	1.480	BACT-OTHER
SUMMIT VINEYARD, LLC	VINEYARD, UT	10/25/2004	DIESEL-FIRED FIRE PUMP	2.32	GCP, INLET AIR FILTER	1.571	LAER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	DIESEL ENGINE FIRE PUMP	1.70	NONE INDICATED	1.620	LAER
FLOPA, INC FACILITY	IBERVILLE, LA	4/26/2011	FIRE PUMP ENGINES - 2 UNITS	3.55	NONE INDICATED	1.639	BACT
TRANS GAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	DIESEL FIRE PUMP	1.10	NONE INDICATED	1.850	LAER
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	DIESEL EMERGENCY FIRE PUMP ENGINE	2.70	LIMITED TO BURN DIESEL 150 H/YR	1.850	BACT-PSD
LSP-COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	3/1/1995	DIESEL ENGINE-DRIVEN FIRE PUMP	2.70	RETARD ENGINE TIMING; TURBOCHARGER AFTERCOOLING	1.852	BACT-PSD
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	DIESEL FIRED EMERGENCY PUMP	2.24	LIMITED OPERATION < 500 HR/YR	1.984	LAER
					GOOD COMBUSTION PRACTICES, GOOD ENGINE DESIGN, IGNITION TIMING RETARD, TURBOCHARGER, AND LOW-TEMPERATURE AFTERCOOLER	2.038	BACT
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	FIRE PUMP ENGINES (2)	2.40	GCP, TIMING RETARD	2.088	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	FIRE PUMP	1.82	NONE INDICATED	2.149	BACT
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	2.14	EQUIPPED W/ A TURBOCHARGER AND AN INTERCOOLER/AFTERCOOLER	2.159	BACT
AVENAL ENERGY PROJECT	KINGS, CA	6/21/2011	EMERGENCY FIREWATER PUMP	2.30	< 100 HR/YR OPERATION	2.200	N/A
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	DIESEL FIRE PUMP	1.50	GOOD ENGINE DESIGN AND OPERATING PRACTICES	2.309	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	FIRE WATER PUMP	5.28	300 HOURS/YEAR LIMIT	2.381	BACT
VAUGHAN FURNITURE COMPANY	STUART, VA	8/28/1996	DIESEL FIRE PUMP (IC ENGINE)	1.85	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	2.454	BACT
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	2.97	OPERATION LIMITATION	2.514	BACT
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	FIRE PUMP ENGINE	2.94	WATER SPRAY INJECTION SYSTEM	2.563	BACT-PSD
DUKE ENERGY - AUDRAIN GENERATING STATION	VANDALIA, MO	5/9/2000	EMERGENCY DIESEL FIRE PUMP	1.50	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICES	2.618	BACT-PSD
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	DIESEL FIRED WATER PUMP	3.40	OPERATIONAL RESTRICTIONS (< 52 HR/YR)	2.700	LAER
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	FIRE WATER PUMP	2.40	LIMIT OPERATING HOURS	2.750	OTHER
OXY NGL, INC.	JOHNSON BAYOU, LA	11/14/1989	(2) FIRE PUMP DIESEL ENGINE	3.20	NONE INDICATED	2.819	BACT-OTHER
WEST CASCADE ENERGY FACILITY	COBURG, OR	11/1/2003	FIRE WATER PUMP	2.03	GOOD WORKING ORDER & OPER PER MFGR SPECS.	2.966	BACT-PSD
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	FIRE WATER PUMP	3.11	EMERGENCY ONLY, USAGE LIMITED TO < 200 H/YR	3.200	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	EMERGENCY FIREWATER PUMP (IC ENGINE)	11.40	NONE INDICATED	3.210	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL FIRE PUMP	1.60	PURCHASE OF CERTIFIED ENGINE BASED ON NSPS, SUBPART IIII.	3.290	BACT
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	FIRE PUMP	4.00	OPERATION LIMITED TO < 500 HR/YR	3.440	BACT-OTHER
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	DIESEL FIREWATER PUMP	2.40	LIMITED TO 500 H/YR OF OPERATION	3.800	BACT-PSD
ROCKINGHAM POWER, LLC POWER GENERATING	ROCKINGHAM CO., NC	6/30/1999	FIRE WATER PUMP (IC ENGINE)	2.48	LIMITED TO 500 H/YR OPERATION	3.868	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	FIRE WATER PUMP	2.12	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	3.873	BACT
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	DIESEL BOOSTER PUMP	2.12	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	3.875	BACT
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	MAIN DIESEL FIRE PUMP	3.68	USE OF LOW-SULFUR FUELS, LIMITING OPERATING HOURS AND PROPER ENGINE MAINTENANCE	3.875	BACT
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	DFP DIESEL FIRE PUMP	2.48	NONE INDICATED	3.875	BACT-PSD
FIRST QUALITY TISSUE, LLC	CLINTON, PA	10/20/2004	FIRE PUMP	4.60	GOOD COMBUSTION CONTROL	3.875	BACT-PSD
BELL ENERGY FACILITY	TEMPLE	6/26/2001	FIREWATER PUMP ENGINE	3.20	ANNUAL OPERATION < 250 NON-EMERGENCY HOURS	3.875	BACT-PSD
BASTROP CLEAN ENERGY CENTER	BASTROP CO., TX	3/21/2000	FIREWATER PUMP ENGINE	2.40	NONE INDICATED	3.875	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	FORT BEND CO., TX	12/31/2002	(2) FIRE WATER PUMPS	2.40	GOOD ENGINE DESIGN, < 200 H/YR OPERATION	3.876	BACT-PSD
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	EMERGENCY DIESEL FIRE PUMP	2.14	NONE INDICATED	3.881	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	FIRE WATER PUMP ENGINE	2.68	NONE INDICATED	3.886	BACT-PSD
REDBUD POWER PLT	OKLAHOMA	5/6/2002	FIRE WATER PUMP DIESEL ENGINE	2.40	NONE INDICATED	3.894	BACT-PSD
ARCHER POWER PARTNERS, L.P.	ECTOR CO., TX	1/3/2000	EMERGENCY FIREWATER PUMP	2.08	NONE INDICATED	3.894	BACT-PSD
ODESSA-ECTOR GENERATING STATION	ECTOR CO., TX	11/18/1999	EMERGENCY FIREWATER PUMP	2.08	LOW SULFUR FUEL COMBUSTION CONTROL	4.000	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL FIRE PUMP ENGINE	3.20	GOOD COMB CONTROL / MODERN ENGINES (< 500 HR/YR)	4.000	BACT-OTHER
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	DIESEL FIREWATER PUMP ENGINE	1.60	NONE INDICATED	4.250	BACT-OTHER
KAMINE/BESICORP SYRACUSE LP	SOLVAY, NY	12/10/1994	FIRE PUMP	1.50	LOWE SULFUR FUEL AND LIMITED OPERATION	4.339	LAER
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	DIESEL FIRE PUMP	1.80	IGNITION TIMING RETARD	4.410	BACT-OTHER
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.59	GCP	4.410	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.89	NONE INDICATED	4.410	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	DIESEL FIRE PUMP ENGINE	1.50	ENGINE DESIGN AND LIMITATION OF HOURS	4.410	BACT-PSD
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	FIRE WATER PUMP DIESEL ENGINE	2.00	ENGINE DESIGN AND LIMITATION OF HOURS	4.410	BACT-PSD
GENOVA OK I POWER PROJECT	GRADY CO., OK	6/13/2002	FIRE WATER PUMP DIESEL ENGINE	1.60	ENGINE DESIGN AND HOURS LIMIT (<100 H/YR)	4.410	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	FIRE WATER PUMP (IC ENGINE)	2.12	GCP EQUIPMENT USAGE LIMITS	4.411	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	EMERGENCY DIESEL FIRE PUMP ENGINE	3.80	NONE INDICATED	4.423	BACT-OTHER
LAKEWOOD COGENERATION, LP	LAKEWOOD, NJ	1993	DF FIRE PUMP	2.6	NONE INDICATED	4.429	OTHER
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.50	NONE	4.429	BACT-PSD
ARSENAL HILL POWER PLANT	CADDO CO, LA	3/20/2008	DIESEL FIRE PUMP	2.17	OPERATION LIMITED TO < 500 HR/YR	4.435	BACT-OTHER
CPV WARREN, LLC	FRONT ROYAL, VA	7/30/2004	DIESEL EMERGENCY FIRE WATER PUMP	2.30	NONE	4.531	BACT-PSD
BLYTHE ENERGY PROJECT II	RIVERSIDE CO, CA	4/25/2007	DIESEL FIRE PUMP	2.12	LIMIT OPERATING HOURS	4.727	OTHER
OXY NGL, INC.	JOHNSON BAYOU, LA	11/14/1989	(2) FIRE PUMP DIESEL ENGINE	2.20	LOW SULFUR FUEL AND LIMITED OPERATION	5.000	BACT
CASCO BAY ENERGY COMPANY, LLC	VEAZIE, ME	2000	FIRE PUMP	3.40	NONE INDICATED	5.081	BACT-PSD
LONGVIEW POWER	MAIDSVILLE, WV	12/4/2003	FIRE PUMP ENGINE	2.07	LIMITED TO 1,128 GAL/YR DIESEL FUEL	7.750	BACT-PSD
GRAIN PROCESSING CORP.	WASHINGTON, IN	6/10/1997	EMERGENCY FIRE PUMP	0.92	GCP, 500 HR/YR	12.008	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	DIESEL FIRE PUMP	0.95	GCP AND DESIGN	29.800	BACT-PSD
KIAMICHI ENERGY FACILITY	PITTSBURG CO., OK	5/1/2001	FIRE WATER PUMP DIESEL ENGINE	2.16			

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED

Appendix G
Recent BACT/LAER Determinations for Diesel Fire Pumps
Carbon Monoxide Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	CO EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
SUMMIT VINEYARD, LLC	VINEYARD, UT	10/25/2004	DIESEL-FIRED FIRE PUMP	2.3	GCP, INLET AIR FILTER	0.069	BACT
FLOPAM INC. FACILITY	IBERVILLE, LA	4/26/2011	SMALL GENERATOR ENGINE	1.5	NONE INDICATED	0.104	BACT
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	FIRE WATER PUMP	5.3	GOOD ENGINE DESIGN AND OPERATING PRACTICES	0.104	BACT-PSD
LA COUNTY PROBATION/FAC PLANNING/ISD	LOS ANGELES, CA	8/14/2003	IC ENGINE FIRE PUMP	1.9	NONE INDICATED	0.121	BACT-PSD
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	DIESEL FIREWATER PUMP	2.4	OPERATION LIMITED TO < 500 HR/YR	0.180	BACT-OTHER
FLOPAM INC. FACILITY	IBERVILLE, LA	4/26/2011	FIRE PUMP ENGINES - 2 UNITS	3.6	GOOD EQUIPMENT DESIGN & PROPER COMBUSTION	0.183	BACT
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	DIESEL ENGINE FIRE PUMP	1.7	GOOD COMBUSTION PRACTICES	0.228	BACT-PSD
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	EMERGENCY ENGINE 1 THRU 8	0.2	PURCHASE OF CERTIFIED ENGINE. HOURS OF OPERATION LIMITED TO 100 HOURS FOR MAINTENANCE AND TESTING.	0.262	BACT
AVENAL ENERGY PROJECT	KINGS, CA	6/21/2011	EMERGENCY FIREWATER PUMP ENGINE	2.3	EQUIPPED W/ TURBOCHARGER & INTERCOOLER/AFTERCOOLER	0.284	BACT
HOLLAND ENERGY, LLC	HOLLAND, IL	12/3/2001	BACKUP DIESEL FIRE PUMP	1.4	NONE INDICATED	0.286	BACT-PSD
WEST CASCADE ENERGY FACILITY	COBURG, OR	11/1/2003	FIRE WATER PUMP	2.0	NONE INDICATED	0.312	BACT-OTHER
BLYTHE ENERGY PROJECT II	RIVERSIDE CO, CA	4/25/2007	DIESEL FIRE PUMP	2.12	NONE	0.330	BACT-PSD
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	DIESEL FIRED EMERGENCY PUMP	2.2	LIMITED OPERATION < 500 HR/YR	0.331	BACT-PSD
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.360	BACT-OTHER
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.360	BACT-OTHER
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.360	BACT-OTHER
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	DIESEL FIRE PUMP	1.1	NONE INDICATED	0.400	BACT
AES WOLF HOLLOW LP	HOOD CO., TX	7/20/2000	EMERGENCY FIREWATER PUMP	2.0	NONE INDICATED	0.527	Other Case-by-Case
CONSUMERS ENERGY	BAY, MI	12/29/2009	FIRE PUMP	4.2	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL	0.535	BACT
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	2.1	NONE INDICATED	0.535	BACT
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	DIESEL FIRED WATER PUMP	3.4	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICES	0.553	BACT-PSD
LAMAR LIGHT & POWER POWER PLANT	POWERS, CO	2/3/2006	DIESEL ENGINE FIRE PUMP	12.0	GOOD COMBUSTION PRACTICES	0.610	BACT-PSD
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	FIRE PUMP ENGINE	2.9	OPERATION LIMITATION	0.611	BACT
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	FIRE WATER PUMP	3.1	GOOD WORKING ORDER / OPER PER MFGR SPECS.	0.618	BACT-PSD
DOME VALLEY ENERGY PARTNERS, LLC	WELTON, AZ	8/10/2003	EMERGENCY FIRE PUMP ENGINE	2.4	OPERATION < 200 HR/YR	0.634	BACT-PSD
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	FIRE WATER PUMP	2.4	OPERATIONAL RESTRICTIONS (< 52 HR/YR)	0.635	BACT
DUKE ENERGY - AUDRAIN GENERATING STATION	VANDALIA, MO	5/9/2000	EMERGENCY DIESEL FIRE PUMP	1.5	GOOD COMBUSTION	0.689	BACT-PSD
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY FIRE PUMP ENGINE	2.4	NSPS SUBPART IIII CERTIFIED	0.708	BACT
PASNY/HOLTSVILLE COMBINED CYCLE PLANT	HOLTSVILLE, NY	9/1/1992	DIESEL FIRE PUMP	1.3	COMBUSTION CONTROL	0.710	BACT-OTHER
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	FIRE PUMP ENGINES (2)	2.4	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.717	BACT
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	FIRE WATER PUMPS (2)	5.5	NONE INDICATED	0.719	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	FIRE PUMP ENGINE	4.6	NONE INDICATED	0.720	BACT
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	DIESEL FIREWATER PUMP ENGINE	1.6	GOOD COMB CONTROL / MODERN ENGINES (< 500 HR/YR)	0.750	BACT-OTHER
OXY NGL, INC.	JOHNSON BAYOU, LA	11/14/1989	(2) FIRE PUMP DIESEL ENGINE	2.2	NONE INDICATED	0.773	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY FIREWATER PUMP	3.3	NONE INDICATED	0.794	BACT
ROCKINGHAM POWER, LLC POWER GENERATING	ROCKINGHAM CO., NC	6/30/1999	FIRE WATER PUMP (IC ENGINE)	2.5	LIMITED TO 500 H/YR OF OPERATION	0.800	BACT-PSD
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	DIESEL FIRE PUMP	1.5	< 100 HR/YR OPERATION	0.800	N/A
ARCHER POWER PARTNERS, L.P.	ECTOR CO., TX	1/3/2000	EMERGENCY FIREWATER PUMP	2.1	NONE INDICATED	0.817	BACT-PSD
ODESSA-ECTOR GENERATING STATION	ECTOR CO., TX	11/18/1999	EMERGENCY FIREWATER PUMP	2.1	NONE INDICATED	0.817	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	FIRE WATER PUMP ENGINE	2.7	NONE INDICATED	0.821	BACT-PSD
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	EMERGENCY DIESEL FIRE PUMP	2.1	GOOD ENGINE DESIGN, < 200 H/YR OPERATION	0.833	BACT-PSD
BASTROP CLEAN ENERGY CENTER	BASTROP CO., TX	3/21/2000	FIREWATER PUMP ENGINE	2.4	ANNUAL OPERATION < 250 NON-EMERGENCY HOURS	0.833	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	FORT BEND CO., TX	12/31/2002	(2) FIRE WATER PUMPS	2.4	NONE INDICATED	0.833	Other Case-by-Case
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	MAIN DIESEL FIRE PUMP	3.7	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.834	BACT
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	DFP DIESEL FIRE PUMP	2.5	USE OF LOW-SULFUR FUELS, LIMITING OPERATING HOURS AND PR	0.835	BACT
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	DIESEL BOOSTER PUMP	2.1	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.835	BACT
FIRST QUALITY TISSUE, LLC	CLINTON, PA	10/20/2004	FIRE PUMP	4.6	NONE INDICATED	0.838	BACT-PSD
BELL ENERGY FACILITY	TEMPLE	6/26/2001	FIREWATER PUMP ENGINE	3.2	GOOD COMBUSTION CONTROL	0.844	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	FIRE WATER PUMP	2.1	LIMITED TO 500 H/YR OPERATION	0.849	BACT-PSD
REDBUD POWER PLT	OKLAHOMA	5/6/2002	FIRE WATER PUMP DIESEL ENGINE	2.4	ENGINE DESIGN	0.854	BACT-PSD
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL FIRE PUMP	1.6	NONE INDICATED	0.856	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL FIRE PUMP ENGINE	3.2	LOW SULFUR FUEL COMBUSTION CONTROL	0.863	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	DIESEL FIRE PUMP	1.8	LOWE SULFUR FUEL AND LIMITED OPERATION	0.933	BACT
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.5	NONE INDICATED	0.943	OTHER
LAKEWOOD COGENERATION, LP	LAKEWOOD, NJ	1993	DF FIRE PUMP	2.6	NONE INDICATED	0.946	BACT-OTHER
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.6	GCP	0.950	BACT-OTHER
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.9	GCP	0.950	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	DIESEL FIRE PUMP ENGINE	1.5	NONE INDICATED	0.950	BACT-PSD
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	FIRE WATER PUMP DIESEL ENGINE	2.0	GCP AND DESIGN	0.950	BACT-PSD
GENOVA OK I POWER PROJECT	GRADY CO., OK	6/13/2002	FIRE WATER PUMP DIESEL ENGINE	1.6	GOOD ENGINE DESIGN	0.950	BACT-PSD
KIAMICHI ENERGY FACILITY	PITTSBURG CO., OK	5/1/2001	FIRE WATER PUMP DIESEL ENGINE	2.2	GCP AND DESIGN	0.950	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	FIRE WATER PUMP (IC ENGINE)	2.1	ENGINE DESIGN AND GCP	0.950	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	EMERGENCY DIESEL FIRE PUMP ENGINE	3.8	GCP EQUIPMENT USAGE LIMITS	0.950	BACT-PSD
ARSENAL HILL POWER PLANT	CADDO CO, LA	3/20/2008	DIESEL FIRE PUMP	2.17	NONE	0.954	BACT-PSD
CPV WARREN, LLC	FRONT ROYAL, VA	7/30/2004	DIESEL EMERGENCY FIRE WATER PUMP	2.3	OPERATION LIMITED TO < 500 HR/YR	0.957	BACT-OTHER
PALMDALE HYBRID POWER PROJECT	LOS ANGELES, CA	10/18/2011	EMERGENCY IC ENGINE	1.5	NONE INDICATED	1.048	BACT
CASCO BAY ENERGY COMPANY, LLC	VEAZIE, ME	2000	FIRE PUMP	3.4	LOW SULFUR FUEL AND LIMITED OPERATION	1.059	BACT
NORTHSTAR DEVELOPMENT PROJECT	ALASKA	2/5/1999	FIRE WATER PUMP	6.0	NONE INDICATED	1.060	BACT-PSD
GRAIN PROCESSING CORP.	WASHINGTON, IN	6/10/1997	EMERGENCY FIRE PUMP	0.9	LIMITED TO 1,128 GAL/YR DIESEL FUEL	1.674	BACT-PSD
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	EMERGENCY FIRE PUMP	2.8	GCP	2.006	BACT
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	3.0	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	2.137	BACT
LONGVIEW POWER	MAIDSVILLE, WV	12/4/2003	FIRE PUMP ENGINE	2.1	NONE INDICATED	2.144	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	FIRE PUMP	1.8	GCP, TIMING RETARD	2.582	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	DIESEL FIRE PUMP	1.0	GCP, 500 HR/YR	2.588	BACT-PSD
KAMINE/BESICORP SYRACUSE LP	SOLVAY, NY	12/10/1994	FIRE PUMP	1.5	NONE INDICATED	2.880	BACT-OTHER
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	FIRE PUMP	4.0	NSPS, SUBPART IIII CERTIFIED. HOURS OF OPERATION LIMITED TO 100 HOURS/YR FOR MAINTENANCE AND TESTING.	2.879	BACT
OXY NGL, INC.	JOHNSON BAYOU, LA	11/14/1989	(2) FIRE PUMP DIESEL ENGINE	3.2	NONE INDICATED	3.719	BACT-PSD

Appendix G
Recent BACT/LAER Determinations for Diesel Fire Pumps
Volatile Organic Compounds Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	VOC EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	FIRE WATER PUMP	5.28	GOOD COMBUSTION PRACTICES	0.0133	BACT-PSD
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	DIESEL FIRED WATER PUMP	3.40	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICES	0.0147	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	FIRE PUMP ENGINE	4.60	NONE INDICATED	0.021	BACT
SUMMIT VINEYARD, LLC	VINEYARD, UT	10/25/2004	DIESEL-FIRED FIRE PUMP	2.32	GCP, INLET AIR FILTER	0.0220	LAER
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	DIESEL FIRE PUMP	1.80	LOWE SULFUR FUEL AND LIMITED OPERATION	0.0333	BACT
WEST CASCADE ENERGY FACILITY	COBURG, OR	11/1/2003	FIRE WATER PUMP	2.03	NONE INDICATED	0.0477	BACT-OTHER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	DIESEL ENGINE FIRE PUMP	1.70	GOOD COMBUSTION PRACTICES	0.0480	LAER
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	2.97	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.0539	BACT
KAMINE/BESICORP SYRACUSE LP	SOLVAY, NY	12/10/1994	FIRE PUMP	1.50	NONE INDICATED	0.0550	BACT-OTHER
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	FIRE PUMP ENGINE	2.94	OPERATION LIMITATION	0.0611	BACT
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	DIESEL FIRE PUMP	1.50	<= 100 HR/YR OPERATION	0.0700	N/A
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL FIRE PUMP	1.60	NONE INDICATED	0.0875	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	EMERGENCY FIREWATER PUMP (IC ENGINE)	11.40	EMERGENCY ONLY, USAGE LIMITED TO < 200 H/YR	0.0912	BACT-PSD
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	DIESEL FIRE PUMP	1.10	NONE INDICATED	0.1000	LAER
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY FIRE PUMP ENGINE	2.40	NSPS SUBPART IIII COMPLIANT	0.1042	BACT
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	FIRE PUMP ENGINES (2)	2.40	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.1083	BACT
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	DIESEL FIREWATER PUMP	2.40	OPERATION LIMITED TO < 500 HR/YR	0.1100	BACT-OTHER
FAIRLESS WORKS ENERGY CTR (FMR. SWEC-FALLS TWP)	GLEN ALLEN, PA	8/7/2001	DIESEL FIRED EMERGENCY PUMP	2.24	LIMITED OPERATION < 500 HR/YR	0.1295	LAER
AES WOLF HOLLOW LP	HOOD CO., TX	7/20/2000	EMERGENCY FIREWATER PUMP	2.00	NONE INDICATED	0.1400	Other Case-by-Case
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.1600	BACT-OTHER
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.1600	BACT-OTHER
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.1600	BACT-OTHER
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	FIRE WATER PUMP	3.11	GOOD WORKING ORDER / OPERATION PER MFGR SPECS.	0.2472	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	DIESEL FIREWATER PUMP ENGINE	1.60	GOOD COMB CONTROL / MODERN ENGINES (< 500 HR/YR)	0.2500	BACT-OTHER
HOLLAND ENERGY, LLC	HOLLAND, IL	12/3/2001	BACKUP DIESEL FIRE PUMP	1.40	NONE INDICATED	0.2857	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	FIRE PUMP	1.82	GCP, TIMING RETARD	0.2967	BACT-OTHER
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	FIRE WATER PUMP ENGINE	2.68	NONE INDICATED	0.2985	BACT-PSD
ROCKINGHAM POWER, LLC POWER GENERATING	ROCKINGHAM CO., NC	6/30/1999	FIRE WATER PUMP (IC ENGINE)	2.48	LIMITED TO 500 H/YR OF OPERATION	0.3000	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	2.14	GOOD COMBUSTION	0.3090	BACT
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	EMERGENCY DIESEL FIRE PUMP	2.14	GOOD ENGINE DESIGN, < 200 H/YR OPERATION	0.3090	BACT-PSD
LONGVIEW POWER	MAIDSVILLE, WV	12/4/2003	FIRE PUMP ENGINE	2.07	NONE INDICATED	0.3097	BACT-PSD
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	MAIN DIESEL FIRE PUMP	3.68	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.3098	BACT
					USE OF LOW-SULFUR FUELS, LIMITING OPERATING HOURS AND PROPER ENGINE MAINTENANCE	0.3105	BACT
SOUTHWEST ELECTRIC POWER COMPANY (SWEPKO)	CADDO, LA	3/20/2008	DFP DIESEL FIRE PUMP	2.48	LIMITED TO 500 H/YR OPERATION	0.3113	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	FIRE WATER PUMP	2.12	ENGINE DESIGN	0.3125	BACT-PSD
REDBUD POWER PLT	OKLAHOMA	5/6/2002	FIRE WATER PUMP DIESEL ENGINE	2.40	GOOD COMBUSTION CONTROL	0.3125	BACT-PSD
BELL ENERGY FACILITY	TEMPLE	6/26/2001	FIREWATER PUMP ENGINE	3.20	NONE INDICATED	0.3125	BACT-PSD
ARCHER POWER PARTNERS, L.P.	ECTOR CO., TX	1/3/2000	EMERGENCY FIREWATER PUMP	2.08	ANNUAL OPERATION < 250 NON-EMERGENCY HOURS	0.3125	BACT-PSD
BASTROP CLEAN ENERGY CENTER	BASTROP CO., TX	3/21/2000	FIREWATER PUMP ENGINE	2.40	NONE INDICATED	0.3125	BACT-PSD
ODESSA-ECTOR GENERATING STATION	ECTOR CO., TX	11/18/1999	EMERGENCY FIREWATER PUMP	2.08	NONE INDICATED	0.3125	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	FORT BEND CO., TX	12/31/2002	(2) FIRE WATER PUMPS	2.40	NONE INDICATED	0.3125	Other Case-by-Case
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	DIESEL BOOSTER PUMP	2.12	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.3302	BACT
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	FIRE WATER PUMP (IC ENGINE)	2.12	ENGINE DESIGN	0.3302	BACT-PSD
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY FIREWATER PUMP	3.25	NONE INDICATED	0.3415	BACT
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.50	NONE INDICATED	0.3429	OTHER
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.89	GCP	0.3500	BACT-PSD
KIAMICHI ENERGY FACILITY	PITTSBURG CO., OK	5/1/2001	FIRE WATER PUMP DIESEL ENGINE	2.16	GCP AND DESIGN	0.3500	BACT-PSD
ARSENAL HILL POWER PLANT	CADDO CO, LA	3/20/2008	DIESEL FIRE PUMP	2.17	NONE	0.355	BACT-PSD
					PURCHASE OF CERTIFIED ENGINES. HOURS OF OPERATION LIMITED TO 100 HOURS FOR MAINTENANCE AND TESTING.	0.358	BACT
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	EMERGENCY ENGINE 1 THRU 8	0.232	GCP	0.3600	BACT-OTHER
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.59	NONE INDICATED	0.3600	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	DIESEL FIRE PUMP ENGINE	1.50	COMBUSTION PRACTICES AND DESIGN	0.3600	BACT-PSD
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	FIRE WATER PUMP DIESEL ENGINE	2.00	GCP, EQUIPMENT USAGE LIMITS	0.3605	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	EMERGENCY DIESEL FIRE PUMP ENGINE	3.80	NONE INDICATED	0.3615	BACT-OTHER
LAKEWOOD COGENERATION, LP	LAKEWOOD, NJ	1993	DF FIRE PUMP	2.60	LOW SULFUR FUEL AND LIMITED OPERATION	0.3824	BACT
CASCO BAY ENERGY COMPANY, LLC	VEAZIE, ME	2000	FIRE PUMP	3.40	TIER 3 ENGINE-BASED, GCP	0.613	BACT
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	FIRE PUMP ENGINE	2.52	FUEL SELECTION; GOOD COMBUSTION	0.7037	BACT-PSD
LSP-COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	3/1/1995	DIESEL ENGINE-DRIVEN FIRE PUMP	2.70	LIMITED TO BURN DIESEL 150 H/YR	0.7100	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	DIESEL EMERGENCY FIRE PUMP ENGINE	2.70	GCP	0.7716	BACT
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	EMERGENCY FIRE PUMP	2.80	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.827	BACT
CONSUMERS ENERGY	BAY, MI	12/29/2009	FIRE PUMP	4.20	GCP, 500 HR/YR	0.9739	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	DIESEL FIRE PUMP	0.95	NSPS IIII CERTIFIED	3.2904	BACT-PSD
PYRAMAX CERAMICS, LLC	ALLENDALE, SC	2/8/2012	FIRE PUMP	4			

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Diesel Fire Pumps
Particulate Matter Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	PM/PM-10 EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
FLOPAM INC. FACILITY	IBERVILLE, LA	4/26/2011	FIRE PUMP ENGINES - 2 UNITS	3.55	NONE INDICATED	0.003	BACT-PSD
FLOPAM INC. FACILITY	IBERVILLE, LA	4/26/2011	SMALL GENERATOR ENGINE	1.54	NONE INDICATED	0.006	BACT-PSD
LAMAR LIGHT & POWER POWER PLANT	POWERS, CO	2/3/2006	DIESEL ENGINE FIRE PUMP	12.0	LOW SULFUR FUEL (0.05% BY WEIGHT)	0.016	BACT-PSD
SUMMIT VINEYARD, LLC	VINEYARD, UT	10/25/2004	DIESEL-FIRED FIRE PUMP	2.32	GCP, INLET AIR FILTER	0.019	BACT
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.026	BACT-OTHER
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.026	BACT-OTHER
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	DIESEL FIRE PUMP	2.00	OPERATION LIMITED TO < 500 HR/YR	0.026	BACT-OTHER
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	DIESEL ENGINE FIRE PUMP	1.70	CLEAN FUELS	0.030	BACT-PSD
IDAHO POWER COMPANY	PAYETTE, ID	6/25/2010	FIRE PUMP ENGINE	2.52	TIER 3 ENGINE-BASED,GOOD COMBUSTION PRACTICES (GCP)	0.031	BACT
GENOVA OK I POWER PROJECT	GRADY CO., OK	6/13/2002	FIRE WATER PUMP DIESEL ENGINE	1.60	ENGINE DESIGN AND GOOD COMBUSTION	0.031	BACT-PSD
LA COUNTY PROBATION/PAC PLANNING/ISD	LOS ANGELES, CA	8/14/2003	IC ENGINE FIRE PUMP	1.92	NONE INDICATED	0.039	BACT-PSD
ARIZONA CLEAN FUELS YUMA LLC	YUMA, AZ	4/14/2005	FIRE WATER PUMPS (2)	5.46	NONE INDICATED	0.041	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	FIRE PUMP ENGINE	4.60	NONE INDICATED	0.041	BACT
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	09/19/2008 &	FIRE PUMP ENGINE	4.60	NONE INDICATED	0.041	BACT
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	DIESEL FIRED WATER PUMP	3.40	GOOD ENGINE DESIGN AND PROPER OPERATING PRACTICES	0.041	BACT-PSD
CONSUMERS ENERGY	BAY, MI	12/29/2009	FIRE PUMP	4.20	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.041	BACT
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY FIRE PUMP ENGINE	2.40	NSPS SUBPART IIII CERTIFIED	0.042	BACT
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	FIRE PUMP ENGINE	2.94	OPERATION LIMITATION	0.044	BACT
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY FIREWATER PUMP	3.25	NONE	0.046	BACT
CALPINE WAWAYANDA	WAWAYANDA, NY	7/22/2002	FIRE WATER PUMP	2.40	OPERATIONAL RESTRICTIONS (< 52 HR/YR)	0.047	BACT
BLYTHE ENERGY PROJECT II	RIVERSIDE CO, CA	4/25/2007	DIESEL FIRE PUMP	2.12	NONE	0.047	BACT-PSD
PALMDALE HYBRID POWER PROJECT	LOS ANGELES, CA	10/18/2011	EMERGENCY IC ENGINE	1.46	USE ULTRA LOW SULFUR FUEL	0.060	BACT
ASTORIA ENERGY, LLC	ASTORIA, NY	12/5/2001	DIESEL FIREWATER PUMP	2.40	OPERATION LIMITED TO < 500 HR/YR	0.060	BACT-OTHER
FAIRLESS WORKS ENERGY CENTER (FMR. SWEC-FAL	GLEN ALLEN, PA	8/7/2001	DIESEL FIRED EMERGENCY PUMP	2.24	LIMITED OPERATION < 500 HR/YR	0.061	BACT-PSD
WEST CASCADE ENERGY FACILITY	COBURG, OR	11/1/2003	FIRE WATER PUMP	2.03	NONE INDICATED	0.062	BACT-OTHER
AES WOLF HOLLOW LP	HOOD CO., TX	7/20/2000	EMERGENCY FIREWATER PUMP	2.00	NONE INDICATED	0.070	Other Case-by-Case
HOLLAND ENERGY, LLC	HOLLAND, IL	12/3/2001	BACKUP DIESEL FIRE PUMP	1.40	NONE INDICATED	0.086	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	EMERGENCY FIREWATER PUMP (IC ENGINE)	11.40	EMERGENCY ONLY, USAGE LIMITED TO < 200 H/YR	0.100	BACT-PSD
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	EMERGENCY DIESEL FIRE PUMP ENGINE	3.80	GCP USE OF FUEL < 0.05% S BY WT. EQUIPMENT USAGE LIMIT	0.100	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	2.14	NONE INDICATED	0.112	BACT
OHIO RIVER CLEAN FUELS, LLC	COLUMBIANA, OH	11/20/2008	FIRE PUMP ENGINES (2)	2.40	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	0.113	BACT
NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON, LA	8/16/2011	EMERGENCY FIRE PUMP	2.80	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.116	BACT
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	DIESEL FIRE PUMP	1.80	LOWE SULFUR FUEL AND LIMITED OPERATION	0.120	BACT
CASCO BAY ENERGY COMPANY, LLC	VEAZIE, ME	2000	FIRE PUMP	3.40	LOW SULFUR FUEL AND LIMITED OPERATION	0.120	BACT
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	FIRE PUMP	1.82	GCP, TIMING RETARD	0.121	BACT-PSD
HAWKEYE GENERATING, LLC	ORIENT, IA	7/23/2002	FIRE PUMP	1.82	GCP, TIMING RETARD	0.121	BACT-PSD
ST. JOSEPH ENEGRY CENTER, LLC	ST JOSEPH, IN	12/3/2012	TWO (2) FIREWATER PUMP DIESEL ENGINES	2.97	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.123	BACT-PSD
POINT THOMSON PRODUCTION FACILITY	NORTH SLOPE, AK	6/12/2013	Combustion	3.94	Good combustion and operating practices.	0.162	BACT-PSD
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	DIESEL FIRE PUMP	1.50	SULFUR <= 0.2% BY WEIGHT; <= 100 HR/YR OPERATION	0.170	N/A
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL FIRE PUMP	1.60	NONE INDICATED	0.194	BACT-PSD
KAMINE/BESICORP SYRACUSE LP	SOLVAY, NY	12/10/1994	FIRE PUMP	1.50	FUEL SPECIFICATION: SULFUR CONTENT <= 0.15% BY WT	0.200	BACT-OTHER
KAMINE/BESICORP SYRACUSE LP	SOLVAY, NY	12/10/1994	FIRE PUMP	1.50	FUEL SPECIFICATION: SULFUR CONTENT <= 0.15% BY WT	0.200	BACT-OTHER
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	FIRE WATER PUMP	3.11	GOOD WORKING ORDER AND OPERATION PER MFGR SPECS.	0.210	BACT-PSD
SABINE PASS LNG - IMPORT TERMINAL	CAMERON, LA	11/24/2004	FIRE WATER PUMP	5.28	GOOD COMBUSTION PRACTICE	0.235	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	DIESEL FIREWATER PUMP ENGINE	1.60	GOOD COMB CONTROL / MODERN ENGINES, S < 0.05% (< 500 HR/YR)	0.250	BACT-OTHER
LSP-COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	3/1/1995	DIESEL ENGINE-DRIVEN FIRE PUMP	2.70	FUEL SELECTION; GOOD COMBUSTION	0.259	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	DIESEL EMERGENCY FIRE PUMP ENGINE	2.70	LIMITED TO BURN DIESEL 150 H/YR	0.260	BACT-PSD
LSP - COTTAGE GROVE, L.P.	COTTAGE GROVE, MN	11/10/1998	DIESEL EMERGENCY FIRE PUMP ENGINE	2.70	LIMITED TO BURN DIESEL 150 H/YR	0.260	BACT-PSD
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	FIRE WATER PUMP ENGINE	2.68	NONE INDICATED	0.261	BACT-PSD
LONGVIEW POWER	MAIDSVILLE, WV	12/4/2003	FIRE PUMP ENGINE	2.07	NONE INDICATED	0.271	BACT-PSD
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	DIESEL BOOSTER PUMP	2.12	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.274	BACT
ARCHER POWER PARTNERS, L.P.	ECTOR CO., TX	1/3/2000	EMERGENCY FIREWATER PUMP	2.08	NONE INDICATED	0.274	BACT-PSD
ODESSA-ECTOR GENERATING STATION	ECTOR CO., TX	11/18/1999	EMERGENCY FIREWATER PUMP	2.08	NONE INDICATED	0.274	BACT-PSD
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	DFP DIESEL FIRE PUMP	2.48	USE OF LOW-SULFUR FUELS, LIMITING OPERATING HOURS AND PROPER E	0.274	BACT
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	MAIN DIESEL FIRE PUMP	3.68	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.274	BACT
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL FIRE PUMP ENGINE	3.20	LOW SULFUR FUEL COMBUSTION CONTROL	0.275	BACT-PSD
REDBUD POWER PLT	OKLAHOMA	5/6/2002	FIRE WATER PUMP DIESEL ENGINE	2.4	NONE INDICATED	0.275	BACT-PSD
BASTROP CLEAN ENERGY CENTER	BASTROP CO., TX	3/21/2000	FIREWATER PUMP ENGINE	2.40	ANNUAL OPERATION < 250 NON-EMERGENCY HOURS	0.275	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	FORT BEND CO., TX	12/31/2002	(2) FIRE WATER PUMPS	2.40	NONE INDICATED	0.275	Other Case-by-Case
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	EMERGENCY DIESEL FIRE PUMP	2.14	GOOD ENGINE DESIGN, < 200 H/YR OPERATION	0.276	BACT-PSD
BELL ENERGY FACILITY	TEMPLE	6/26/2001	FIREWATER PUMP ENGINE	3.20	GOOD COMBUSTION CONTROL AND USE OF LOW-SULFUR DIESEL	0.281	BACT-PSD
LAIDLAW BERLIN BIPOWER, LLC	COOS, NH	7/26/2010	EU03 FIRE PUMP ENGINE	2.3	NONE INDICATED	0.300	BACT
ROCKINGHAM POWER, LLC POWER GENERATING	ROCKINGHAM CO., NC	6/30/1999	FIRE WATER PUMP (IC ENGINE)	2.48	LIMITED TO 500 H/YR OF OPERATION	0.300	BACT-PSD
LAKEWOOD COGENERATION, LP	LAKEWOOD, NJ	1993	DF FIRE PUMP	2.60	NONE INDICATED	0.308	BACT-OTHER
CONSUMERS ENERGY	BAY, MI	12/29/2009	FIRE PUMP	4.20	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.310	BACT
TRANSAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	DIESEL FIRE PUMP	1.10	NONE INDICATED	0.310	BACT
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.59	LOW ASH FUEL AND GOOD OPERATING PRACTICES	0.310	BACT-OTHER
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.89	GCP	0.310	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	FIRE WATER PUMP (IC ENGINE)	2.12	COMBUSTION CONTROL AND GOOD ENGINE DESIGN	0.310	BACT-PSD
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.59	LOW ASH FUEL AND GCP	0.310	BACT-OTHER
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.89	GCP	0.310	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	DIESEL FIRE PUMP ENGINE	1.50	NONE INDICATED	0.310	BACT-PSD
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	FIRE WATER PUMP DIESEL ENGINE	2.00	LOW ASH FUEL	0.310	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	FIRE WATER PUMP	2.12	LIMITED TO 500 H/YR OPERATION	0.311	BACT-PSD
ARSENAL HILL POWER PLANT	CADDO CO, LA	3/20/2008	DIESEL FIRE PUMP	2.17	NONE	0.313	BACT-PSD
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.50	NONE	0.314	OTHER
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.50	NONE	0.314	OTHER
GRAIN PROCESSING CORP.	WASHINGTON, IN	6/10/1997	EMERGENCY FIRE PUMP	0.92	NONE INDICATED	0.543	BACT-PSD
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	DIESEL FIRE PUMP	0.95	SULFUR LIMITED TO 0.05% BY WEIGHT, 500 HR/YR	0.852	BACT-PSD
KIAMICHI ENERGY FACILITY	PITTSBURG CO., OK	5/1/2001	FIRE WATER PUMP DIESEL ENGINE	2.16	GCP AND DESIGN	2.110	BACT-PSD

ASSUMPTION: HEAT INPUT RATE AND EMISSION LIMITS CALCULATED BASED ON A FUEL USAGE RATE OF 8,000 BTU/HP-HR AND FUEL HHV OF 140,000 BTU/GAL, AS NEEDED
GCP = GOOD COMBUSTION PRACTICES

Appendix G
Recent BACT/LAER Determinations for Diesel Fire Pumps
Sulfur Dioxide Emissions

FACILITY	LOCATION	PERMIT DATE	EMISSION UNIT DESCRIPTION	THROUGHPUT MMBTU/HR (EACH UNIT)	CONTROL DESCRIPTION	SO ₂ EMISSION LIMIT (LB/MMBTU)	PERMIT LIMIT BASIS
OREGON CLEAN ENERGY CENTER	LUCAS, OH	6/18/2013	EMERGENCY FIREWATER PUMP	2.4	NONE INDICATED	0.001	BACT
HICKORY RUN ENERGY STATION	LAWRENCE, PA	4/23/2013	EMERGENCY FIREWATER PUMP	3.3	NONE INDICATED	0.002	BACT
EL PASO MANATEE ENERGY CENTER	MANATTE CO., FL	12/1/2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.003	BACT-OTHER
EL PASO BELLE GLADE ENERGY CENTER	PALM BEACH CO., FL	12/1/2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.003	BACT-OTHER
EL PASO BROWARD ENERGY CENTER	BROWARD CO., FL	2001	DIESEL FIRE PUMP	2.0	OPERATION LIMITED TO < 500 HR/YR	0.003	BACT-OTHER
TRANSGAS ENERGY SYSTEMS	BROOKLYN, NY	6/4/2003	DIESEL FIRE PUMP	1.1	NONE INDICATED	0.020	BACT
FAIRLESS WORKS ENERGY CENTER (FMR. SWEC-FALLS TO	GLEN ALLEN, PA	8/7/2001	DIESEL FIRED EMERGENCY PUMP	2.2	LIMITED OPERATION < 500 HR/YR	0.047	BACT-PSD
DUKE ENERGY HANGING ROCK ENERGY FACILITY	CHARLOTTE	12/13/2001	FIRE WATER PUMP	2.1	LOW SULFUR FUEL	0.047	BACT-PSD
TATE & LYLE INDGREDIENTS AMERICAS, INC.	WEBSTER, IA	9/19/2008	FIRE PUMP ENGINE	4.6	LIMIT ON SULFUR IN FUEL	0.047	BACT
LONGVIEW ENERGY DEVELOPMENT	LONGVIEW, WA	9/4/2001	FIRE PUMP ENGINE	2.9	LOW SULFUR FUEL OIL (< 0.05% S)	0.048	BACT
LA COUNTY PROBATION/FAC PLANNING/ISD	LOS ANGELES, CA	8/14/2003	IC ENGINE FIRE PUMP	1.9	LOW SULFUR FUEL OIL (TO BE CONVERTED TO ULTRA LOW SULFUR FUEL)	0.050	BACT-PSD
ROCKINGHAM POWER, LLC POWER GENERATING	ROCKINGHAM CO., NC	6/30/1999	FIRE WATER PUMP (IC ENGINE)	2.5	LIMITED TO 500 H/YR OF OPERATION	0.050	BACT-PSD
MANTUA CREEK GENERATING FACILITY	NEW JERSEY	6/26/2001	DIESEL FIRE PUMP	1.5	SULFUR MUST BE <= 0.2% BY WEIGHT; <= 100 HR/YR OPERATION	0.050	N/A
HORSESHOE ENERGY PROJECT	LINCOLN CO., OK	2/12/2002	FIRE WATER PUMP DIESEL ENGINE	2.0	LOW SULFUR DIESEL FUEL	0.050	BACT-PSD
FORSYTH ENERGY PLANT	FORSYTH CO., NC	1/23/2004	EMERGENCY FIREWATER PUMP (IC ENGINE)	11.4	EMERGENCY ONLY, USAGE LIMITED TO < 200 H/YR	0.051	BACT-PSD
ASSOCIATED ELECTRIC COOPERATIVE INC	MAYES, OK	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	2.1	LOW SULFUR DIESEL	0.051	BACT
CHOUTEAU POWER PLANT	PRYOR, OK	3/24/1999	EMERGENCY DIESEL FIRE PUMP	2.1	LIMITED TO 200 H/YR OPERATION	0.051	BACT-PSD
MIDAMERICAN ENERGY COMPANY	COUNCIL BLUFFS, IA	6/17/2003	DIESEL FIRE PUMP	3.9	GCP AND LOW SULFUR FUEL	0.052	BACT-PSD
DIGHTON POWER ASSOCIATE, LP	DIGHTON, MA	10/6/1997	DIESEL FIRE PUMP ENGINE	1.5	NONE INDICATED	0.053	BACT-PSD
CASCO BAY ENERGY COMPANY, LLC	VEAZIE, ME	2000	FIRE PUMP	3.4	LOW SULFUR FUEL AND LIMITED OPERATION	0.059	BACT
LAMAR LIGHT & POWER POWER PLANT	POWERS, CO	2/3/2006	DIESEL ENGINE FIRE PUMP	12.0	LOW SULFUR FUEL (0.05% BY WEIGHT)	0.060	BACT-PSD
ARCHER POWER PARTNERS, L.P.	ECTOR CO., TX	1/3/2000	EMERGENCY FIREWATER PUMP	2.1	NONE INDICATED	0.101	BACT-PSD
ODESSA-ECTOR GENERATING STATION	ECTOR CO., TX	11/18/1999	EMERGENCY FIREWATER PUMP	2.1	NONE INDICATED	0.101	BACT-PSD
CRESCENT CITY POWER	ORLEANS, LA	6/6/2005	DIESEL FIRED WATER PUMP	3.4	NONE INDICATED	0.180	BACT-PSD
RIVER HILL POWER COMPANY	KARTHAUS TWP, PA	7/21/2005	DIESEL ENGINE FIRE PUMP	1.7	LOW SULFUR FUEL	0.203	BACT-PSD
DUKE ENERGY STEPHENS, LLC STEPHENS ENERGY	STEPHENS CO., OK	3/21/2003	FIRE WATER PUMP (IC ENGINE)	2.1	USE OF VERY LOW SULFUR DIESEL FUEL (<0.05% S BY WT)	0.236	BACT-PSD
BELL ENERGY FACILITY	TEMPLE	6/26/2001	FIREWATER PUMP ENGINE	3.2	GOOD COMBUSTION CONTROLS, USE OF LOW SULFUR (0.05%) FUELS	0.250	BACT-PSD
DUKE ENERGY ARLINGTON VALLEY (AVEFII)	ARLINGTON, AZ	11/12/2003	DIESEL FIREWATER PUMP ENGINE	1.6	GOOD COMB CONTROL / MODERN ENGINES, S < 0.05% (< 500 HR/YR)	0.250	BACT-OTHER
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	DIESEL BOOSTER PUMP	2.1	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.255	BACT
WPS WESTON 4 - NORTH SITE	WAUSAU, WI	10/18/2004	MAIN DIESEL FIRE PUMP	3.7	FIRING ULTRA LOW SULFUR FUEL OIL (< 0.003%S)	0.255	BACT
SOUTHWEST ELECTRIC POWER COMPANY (SWEPCO)	CADDO, LA	3/20/2008	DFP DIESEL FIRE PUMP	2.5	USE OF LOW-SULFUR FUELS, LIMITING OPERATING HOURS AND PROPER ENGINE MAINTENANCE	0.258	BACT
BASTROP CLEAN ENERGY CENTER	BASTROP CO., TX	3/21/2000	FIREWATER PUMP ENGINE	2.4	DISTILLATE FUEL OIL < 0.3 WEIGHT PERCENT SULFUR	0.258	BACT-PSD
BRAZOS VALLEY ELECTRIC GENERATING FACILITY	FORT BEND CO., TX	12/31/2002	(2) FIRE WATER PUMPS	2.4	DIESEL </+ 0.3% S, MAX OPER 100 H/YR, NON-EMERGENCY USE	0.258	Other Case-by-Case
HARRIS ENERGY FACILITY	HOUSTON, TX	8/31/2000	FIRE WATER PUMP ENGINE	2.7	NONE INDICATED	0.261	BACT-PSD
DUKE ENERGY WASHINGTON COUNTY LLC	OHIO	1/18/2001	EMERGENCY DIESEL FIRE PUMP ENGINE	3.2	LOW SULFUR FUEL COMBUSTION CONTROL	0.263	BACT-PSD
WESTBROOK POWER LLC	WESTBROOK, ME	12/4/1998	DIESEL FIRE PUMP	1.8	LOWE SULFUR FUEL AND LIMITED OPERATION	0.283	BACT
LIBERTY GENERATING STATION	LINDEN CITY, NJ	3/28/2002	DIESEL FIRE PUMP	3.5	NONE INDICATED	0.286	BACT-OTHER
HOLLAND ENERGY, LLC	HOLLAND, IL	12/3/2001	BACKUP DIESEL FIRE PUMP	1.4	NONE INDICATED	0.286	BACT-PSD
LAKEWOOD COGENERATION, LP	LAKESWOOD, NJ	1993	DF FIRE PUMP	2.6	NONE INDICATED	0.288	BACT-OTHER
BADGER GENERATING CO LLC	PLEASANT PRAIRIE, WI	9/20/2000	EMERGENCY DIESEL FIRE PUMP ENGINE	3.8	DIESEL FUEL SULFUR CONTENT OF 0.05% & EQUIPMENT USAGE LIMITS	0.289	BACT-PSD
EMERY GENERATING STATION	MASON CITY, IA	12/20/2002	EMERGENCY FIRE PUMP (IC ENGINE)	2.6	LOW SULFUR FUEL	0.290	BACT-OTHER
ARSENAL HILL POWER PLANT	CADDO CO, LA	3/20/2008	DIESEL FIRE PUMP	2.17	NONE	0.295	BACT-PSD
SUMMIT VINEYARD, LLC	VINEYARD, UT	10/25/2004	DIESEL-FIRED FIRE PUMP	2.3	GCP, INLET AIR FILTER	0.322	BACT
PSEG WATERFORD ENERGY LLC	COLUMBUS, OH	3/29/2001	FIRE WATER PUMP	3.1	GOOD WORKING ORDER AND OPERATION PER MANUFACTURER SPECS.	0.371	BACT-PSD
REDBUD POWER PLT	OKLAHOMA	5/6/2002	FIRE WATER PUMP DIESEL ENGINE	2.4	NONE INDICATED	0.400	BACT-PSD
AES WOLF HOLLOW LP	HOOD CO., TX	7/20/2000	EMERGENCY FIREWATER PUMP	2.0	NONE INDICATED	0.420	Other Case-by-Case
PSI ENERGY - MADISON STATION	MADISON, OH	8/24/2004	EMERGENCY DIESEL FIRE PUMP	1.6	LOW SULFUR FUEL	0.500	BACT-PSD
WEST CASCADE ENERGY FACILITY	COBURG, OR	11/1/2003	FIRE WATER PUMP	2.0	NONE INDICATED	0.507	BACT-OTHER
TENASKA INDIANA PARTNERS, L.P.	OTWELL, IN	11/12/2002	DIESEL FIRE PUMP	1.0	SULFUR LIMITED TO 0.05% BY WEIGHT, 500 HR/YR	0.794	BACT-PSD
LONGVIEW POWER	MAIDSVILLE, WV	12/4/2003	FIRE PUMP ENGINE	2.1	NONE INDICATED	1.597	BACT-PSD

Appendix G
Recent RACT/BACT/LAER Determinations for Natural Gas-Fired Combined Cycle Combustion Turbines > 25 MW
Greenhouse Gas Emissions

FACILITY	LOCATION	PERMIT STATUS	PERMIT DATE	OPERATING STATUS	EMISSION UNIT DESCRIPTION	CONTROL DESCRIPTION	EMISSION LIMIT	EMISSION LIMIT UNITS	PERMIT LIMIT BASIS
CRICKET VALLEY ENERGY CENTER	NEW YORK	FINAL	9/27/2012	NO	GE 7FA COMBINED CYCLE COMBUSTION TURBINES	HIGH EFFICIENCY CTGS	7,605	BTU/KWH	BACT
							3,576,943	TONS/YR	
							120	LB/MMBTU	
LOWER COLORADO RIVER AUTHORITY	TEXAS	FINAL	11/10/2011	NO	COMBINED CYCLE COMBUSTION TURBINES	HIGH EFFICIENCY CTGS	7,720	BTU/KWH	BACT
							0	TONS/MWH	
							774	LB/MWH (SOURCE-WIDE)	
PALMDALE HYBRID POWER PROJECT	CALIFORNIA	FINAL	10/18/2011	NO	NGCC POWER PLANT AND SOLAR PLANT	THERMALLY EFFICIENT CTGS & SOLAR COMPONENT	117	LB/MMBTU	BACT
							7,319	BTU/KWH	
							1,913,000	TONS/YR	
ROBINSON POWER COMPANY	PENNSYLVANIA	FINAL	6/30/2011	NO	GE 7EA COMBUSTION TURBINES	HIGH EFFICIENCY TURBINES	620,000	TONS/YR	VOLUNTARY
MOXIE LIBERTY LLC/ASYLUM POWER PL T	PENNSYLVANIA	FINAL	10/10/2012	NO	COMBINED CYCLE COMBUSTION TURBINES	HIGH EFFICIENCY TURBINES	1,480,086	TONS/YR	BACT
GATEWAY COGENERATION 1, LLC	VIRGINIA	FINAL	9/27/2012	NO	COMBUSTION TURBINES, (2)	THERMAL EFFICIENCY	1,050	LB/MWH	BACT
NRG ENERGY CENTER DOVER	DELAWARE	FINAL	10/31/2012	NO		THERMAL EFFICIENCY	1,085	LB/MWH	BACT
GARRISON ENERGY CENTER	DELAWARE	FINAL	1/30/2013	NO		THERMAL EFFICIENCY	1,006,304	TONS/YR	BACT
PACIFICORP	UTAH	FINAL	5/4/2011	NO	COMBINED CYCLE COMBUSTION TURBINES	HIGH EFFICIENCY CTGS AND HRSG	950	LB/MWH	BACT
RUSSELL CITY ENERGY CENTER	CALIFORNIA	FINAL	2/3/2010	NO		EFFICIENT GENERATING TECHNOLOGY AND NATURAL GAS AS FUEL	7,730	BTU/KWH	VOLUNTARY
WOLVERINE POWER SUPPLY COOPERATIVE	MICHIGAN	NOTE (1)	NOTE (1)	NO	NATURAL GAS FIRED TURBINE		954	LB/MWH	BACT
CPV VALLEY	NEW YORK	DRAFT	7/11/2012	NO	SIEMENS F-CLASS COMBUSTION TURBINES	THERMALLY EFFICIENT TURBINES	925	LB/MWH	BACT
BLACK HILLS POWER - CHEYENNE	WYOMING	FINAL	9/27/2012	NO	GE LM6000 COMBINED CYCLE TURBINES	THERMALLY EFFICIENT TURBINES	1,100	LB/MWH	BACT
							187,318	TONS/YR	
WOODBIDGE ENERGY CENTER	NEW JERSEY	FINAL	8/24/2012	NO	GE 7FA COMBINED CYCLE COMBUSTION TURBINES	THERMALLY EFFICIENT CTGS	925	LB/MWH	BACT
							7,605	BTU/KWH	
HESS NEWARK ENERGY CENTER	NEW JERSEY	FINAL	10/13/2012	NO	GE 7FA CTGS	THERMALLY EFFICIENT TURBINES	887	LB/MWH	BACT
							7,522	BTU/KWH	
CALPINE DEER PARK	TEXAS	FINAL	11/29/2012	NO	SIEMENS 501FD2 COMBUSTION TURBINE	THERMALLY EFFICIENT TURBINES	7,730	BTU/KWH	BACT
							0,460	TONS/MWH	
CALPINE CHANNEL ENERGY CENTER	TEXAS	FINAL	11/29/2012	NO	SIEMENS 501FD2 COMBUSTION TURBINE	THERMALLY EFFICIENT TURBINES	7,730	BTU/KWH	BACT
							0,460	TONS/MWH	
PIONEER VALLEY ENERGY CENTER	MASSACHUSETTS	FINAL	4/12/2012	NO	MITSUBISHI 501G	THERMALLY EFFICIENT TURBINES	895	LB/MWH	BACT
SUMPTER POWER PLANT	MICHIGAN	FINAL	11/17/2011	NO	COMBINED CYCLE COMBUSTION TURBINE W/ HRSG	THERMAL EFFICIENCY	954	LB/MWH	BACT
KENNECOTT UTAH COPPER - POWER PLANT	UTAH	FINAL	11/22/2011	NO		THERMALLY EFFICIENT TURBINES	7,642	BTU/KWH	BACT
GIBSON COUNTY GENERATING STATION	TENNESSEE	DRAFT	9/4/2012	NO	GE 7FA	THERMALLY EFFICIENT TURBINES	1,679,459	TONS/YR	BACT

NOTES:

(1) APPROVAL LETTERS FOR THIS FACILITY HAS BEEN ISSUED, BUT COPIES OF THE FINAL PERMIT ARE NOT AVAILABLE.

TANKS Output

TANKS 4.0.9d
Emissions Report - Summary Format
Tank Identification and Physical Characteristics

Identification

User Identification:	ULSD Tanks 1 & 2
City:	Yaphank
State:	New York
Company:	Caithness
Type of Tank:	Vertical Fixed Roof Tank
Description:	Caithness II ULSD tanks - (2) 1,000,000 gallon each

Tank Dimensions

Shell Height (ft):	50.00
Diameter (ft):	58.00
Liquid Height (ft) :	48.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	948,681.22
Turnovers:	13.20
Net Throughput(gal/yr):	12,519,842.00
Is Tank Heated (y/n):	N

Paint Characteristics

Shell Color/Shade:	Gray/Light
Shell Condition	Good
Roof Color/Shade:	Gray/Light
Roof Condition:	Good

Roof Characteristics

Type:	Dome
Height (ft)	0.00
Radius (ft) (Dome Roof)	0.00

Breather Vent Settings

Vacuum Settings (psig):	-0.03
Pressure Settings (psig)	0.03

Meteorological Data used in Emissions Calculations: New York City, New York (Avg Atmospheric Pressure = 14.73 psia)

TANKS 4.0.9d
Emissions Report - Summary Format
Liquid Contents of Storage Tank

ULSD Tanks 1 & 2 - Vertical Fixed Roof Tank
Yaphank, New York

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Distillate fuel oil no. 2	All	61.34	53.82	68.86	56.93	0.0068	0.0053	0.0087	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009

TANKS 4.0.9d
Emissions Report - Summary Format
Individual Tank Emission Totals

Emissions Report for: Annual

ULSD Tanks 1 & 2 - Vertical Fixed Roof Tank
Yaphank, New York

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	264.87	114.95	379.82

Air Quality Modeling Files

Assessment of Accidental Ammonia Release

APPENDIX G: ASSESSMENT OF ACCIDENTAL AMMONIA RELEASE

1. Introduction

Aqueous ammonia will be used as the reducing agent in the Project's SCR systems for controlling NO_x emissions from the turbines. The NO_x reduction achieved by the SCR system is affected by the ratio of ammonia (NH₃) to NO_x. Because of the need for a constant supply, aqueous ammonia (a mixture containing less than 19 percent by weight ammonia in water) will be stored on-site in two steel storage tanks approximately 430 feet from the facility property line. The tanks are expected to be approximately 10.5 feet in diameter by approximately 32 feet in length, with a capacity of 20,000 gallons. The tanks will be designed in accordance with nationally recognized standards and other applicable regulations. Due to the dilute concentration of the aqueous ammonia (less than 19%), the Project's ammonia solution is not subject to the Risk Management Program for hazardous materials (40 CFR Part 68). However, to ensure the health and safety of the community surrounding the proposed CLI-II facility, the potential for off-site impacts resulting from a worst-case ammonia release scenario was assessed.

The proposed ammonia storage tanks will be built of steel and will be installed with an impervious, secondary containment area below the tank that has sufficient volume to contain 110% of the liquid from the tank and minimizes the exposed area while surrounding the tank. The tanks will be in areas separated by a berm such that a spill of one tank would not flow into the adjacent tanks sump system. The proposed sump area for the tank, approximately 22.0 feet by 41.5 feet, will accommodate these requirements. This yields a liquid surface area of approximately 913 square feet.

2. Accidental Release Modeling

In order to assess the potential for off-site impacts resulting from a worst-case release scenario (i.e. a rupture of the tank walls), an evaluation of this unlikely event was performed using the protocols established in U.S. EPA's Risk Management Program regulations (40 CFR Part 68). While the Project's use of 19 percent aqueous ammonia is not subject to these regulations due to its dilute concentration, the protocol provides a conservative approach to estimating the potential for off-site impacts from releases of hazardous substances.

A determination of the potential for an off-site impact from an accidental worst-case ammonia release scenario was conducted using emission estimates based on U.S. EPA's *Risk Management Program Guidance for Offsite Consequence Analysis* (OCA) (U.S. EPA, March 2009) developed by U.S. EPA as part of the 1990 Clean Air Act Amendments (CAAA) Title III Risk Management Program. The first step in this analysis is to determine a release rate (QR) in pounds per minute. Section 3.3 of the referenced U.S. EPA guidance specifies a method for analyzing releases of common water solutions such as aqueous ammonia. In this analysis, the use of passive and active mitigation factors (i.e., secondary containment area and a water curtain spray system) is allowed and used in calculating QR.

The guidance treats water solutions, such as aqueous ammonia, as a liquid release (OCA Guidance Section 3.2.3 for liquids) and first requires the calculation of a maximum pool area without the benefit of passive mitigation:

$$A = QS \times DF \qquad \text{OCA Equation 3-6}$$

where:

A = Maximum Area of Pool (square feet);

QS = Quantity Released (pounds);

DF = Density Factor, 0.53 ft²/lb per Exhibit B-3 of the OCA guidance for 20% ammonia.

The specific gravity of 19% ammonia is 0.926 (*Perry's Chemical Engineers Handbook: Seventh Edition*) (Perry's) yielding a density of 7.72 lb/gal; therefore, the "mass released" (QS) from the 20,000 gallon ammonia storage vessel is calculated as follows:

$$QS = (20,000 \text{ gallons}) \times (7.72 \text{ pounds/gallon}) = 154,400 \text{ lbs}$$

The maximum area of the pool without spill containment, assuming a depth of one centimeter per guidance, is:

$$A = QS \times DF = 81,832 \text{ square feet.}$$

The evaporative surface area of the containment area (i.e, sump area below the tank) is calculated to be 913 square feet. The smaller of the two areas (81,832 or 913 square feet) is used in determining the release rate (QR). Therefore, the available evaporative surface area of the diked containment area is smaller than the pool area, and is used to determine QR. Per the U.S. EPA OCA method, the following equation is used to obtain the evaporation rate in the worst-case confined spill scenario:

$$QR = 1.4 \times LFA \times A \qquad \text{OCA equation 3-7}$$

where:

QR = Release rate (pounds per minute);
1.4 = Wind speed factor = $1.5^{0.78}$, where 1.5 meters per second is the wind speed for the worst case;
LFA = Liquid Factor Ambient (0.015 for 20% ammonia per Exhibit B-3);
A = Area (913 square feet);

therefore: QR = 19.17 pounds per minute.

Note that the CLI-II facility will utilize 19% ammonia, and the use of 20% ammonia has been conservatively assumed for the purpose of this analysis. The Project will utilize a water curtain spray system to mitigate an accidental release with an ammonia vapor control effectiveness of 90%. Thus, the release rate is 1.917 pounds per minute.

The potential worst-case release impact distance was calculated using the recommended Clean Air Act 112(r) protocols by U.S. EPA. The analysis was conducted assuming a wind speed of 1.5 m/s, F stability (highly stable atmosphere), and a tank with a secondary containment area below the tank (i.e., sump area) with a surrounding water spray curtain system. Ammonia is considered neutrally buoyant with a prescribed toxic endpoint level of 0.105 milligrams per liter (mg/l), which is approximately equivalent to 150 ppm. The toxic endpoint value is based on the existing short-term exposure value from the American Industrial Hygiene Association Emergency Response Planning Guidelines Level 2 (EPRG-2). This value represents the maximum airborne concentration below which nearly all individuals could be exposed for up to an hour without experiencing or developing irreversible or other serious adverse health effects.

To predict the potential worst-case impact distance, the U.S. EPA-approved *Areal Locations of Hazardous Atmospheres* (ALOHA) model was used. This accidental release model was developed by NOAA (National Oceanic and Atmospheric Administration)

and is routinely utilized by first responders in predicting impact areas associated with hazardous material releases.

ALOHA is a computer program that uses information provided by its operator and physical property data from its extensive chemical library to determine how a hazardous gas cloud might disperse in the atmosphere after an accidental chemical release. ALOHA can estimate rates of chemical release from broken gas pipes, leaking tanks, and evaporating puddles, and can model the dispersion of both neutrally-buoyant and heavier-than-air gases. ALOHA originated as an in-house tool to aid in emergency response. It was originally based on a simple model - a continuous point source with a Gaussian plume distribution. It has evolved over the years into a tool used for emergency response, planning, training, and academic purposes. It is distributed worldwide to thousands of users in government and industry.

For neutrally buoyant aqueous ammonia vapors, and utilizing a 10-minute release duration per guidance and urban conditions, the ALOHA results indicate that ground level concentrations never exceed the ERPG-2 concentration of 150 ppm. The maximum calculated ammonia concentrations at the closest offsite property line distance of approximately 430 feet is 88.5 ppm as shown by the ALOHA modeling results located in Appendix A. This represents the worst-case scenario as the data used calculated the release rate (QR) for 20% ammonia (data for 19% are not available as it is not subject to the Risk Management Program). Calculated ammonia concentrations beyond the property line (i.e., the nearest residence) will only be lower than the maximum concentrations calculated by the ALOHA model.

Therefore, the defined worst-case accidental release scenario (20,000 gallons consisting of 20 percent aqueous ammonia solution in an impervious secondary containment area below the tank with a water curtain spray system) will not result in an exceedance of the ERPG-2 guideline (150 ppm) for ammonia beyond the property boundary.

Table A1: Offsite Consequence Analysis for Aqueous Ammonia

Parameters	Values	Reference
Volume (gallons)	20,000	Project Design
Release (pounds NH ₃) ⁽¹⁾	29,336	Calculated
Release (pounds of solution) (QS) ⁽¹⁾	154,400	Calculated
Percent Ammonia in Solution	19.0	Project Design
Effective Area of Containment (square feet) ⁽²⁾	913	Calculated
Evaporative Surface Area (square feet) ⁽³⁾	913	Calculated
Pooled Area (A) (square feet) ⁽⁴⁾	81,832	Calculated
Density Factor (DF)	0.53	Exhibit B-3 of U.S. EPA guidance
Liquid Factor Ambient (LFA)	0.015	Exhibit B-3 of U.S. EPA guidance
Topography ⁽⁵⁾	Urban	Site Plan and Digital Orthoimagery
Vapor Density	Buoyant	Exhibit B-3 of U.S. EPA guidance
Release Duration	10-minute	U.S. EPA guidance
Toxic Endpoint (milligrams per liter)	0.105	EPRG-2
Stability	F	U.S. EPA guidance
Wind Speed (m/s)	1.5	U.S. EPA guidance

⁽¹⁾ Release in pounds derived assuming density of 7.72 lb/gal (19% ammonia solution)

⁽²⁾ The containment area is derived as containment length times width. The area of the containment is 726 square feet based on dimensions of 22 feet by 41.5 feet.

⁽³⁾ The calculation of evaporative surface area is presented above.

⁽⁴⁾ Pooled area is equal to release in pounds multiplied by the density factor.

⁽⁵⁾ An urban topography was chosen per OCA guidance based upon the various obstructions (i.e., trees, buildings, etc.) in the local area surrounding the ammonia storage tank.

APPENDIX A
WORST-CASE SCENARIO ALOHA
MODELING RESULTS

SITE DATA INFORMATION:

Location: BROOKHAVEN, NEW YORK

Building Air Exchanges Per Hour: 0.50 (enclosed office)

CHEMICAL INFORMATION:

Chemical Name: 19% AQUEOUS AMMONIA

Molecular Weight: 17.03 kg/kmol

TLV-TWA: 25 ppm IDLH: 300 ppm

Default LOC from Library: 150 ppm

Footprint Level of Concern: 150 ppm

Boiling Point: 121.1° F

Vapor Pressure at Ambient Temperature: 0.34 atm

Ambient Saturation Concentration: 343,089 ppm or 34.3%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 1.5 meters/sec from NW at 3 meters

No Inversion Height

Stability Class: F (user override)

Air Temperature: 77° F

Relative Humidity: 50% Ground Roughness: urban or forest

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1.918 pounds/min

Source Height: 0

Release Duration: 10 minutes

Release Rate: 1.92 pounds/min

Total Amount Released: 19.2 pounds

TIME DEPENDENT INFORMATION:

Concentration Estimates at the point:

Downwind: 430 feet

Off Centerline: 0 feet

Max Concentration:

Outdoor: 88.5 ppm

Indoor: 4.5 ppm