Part 9

BASELINE ACTUAL EMISSIONS (BAE) FOR CRITERIA POLLUTANTS: FOR PSD OR MAJOR NONATTAINMENT SOURCES ONLY

Company Name:	Date:	Registration Number:

Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of Criteria Pollutants for the Period: _____, 20___ to _____, 20___							
	PM (Particulate Matter)	PM-10* (10 µM or smaller particulate matter)	PM 2.5* (2.5 µM or smaller particulate matter)	SO_2 (Sulfur Dioxide)	NO_X (Nitrogen Oxides)	CO (Carbon Monoxide)	VOC (Volatile Organic Compounds)	Pb (Lead)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:								

☐ Background Documentation Attached (totals and per Unit Ref. No.)

*** PM-10 and PM 2.5 includes filterable and condensable.**

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BASELINE ACTUAL EMISSIONS (BAE) FOR GREENHOUSE GASES (GHGs) POLLUTANT EMISSIONS ON MASS BASIS: FOR PSD MAJOR SOURCES ONLY

Company Name:	Date:	Registration Number:

Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of GHGs for the Period: _____, 20___ to _____, 20___					
	CO_2 (Carbon Dioxide)	N_2O (Nitrous Oxide)	CH_4 (Methane)	HFCs (Hydrofluorocarbons)	PFCs (Perfluorocarbons)	SF_6 (Sulfur Hexafluoride)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:						

☐ Background Documentation Attached (totals and per Unit Ref. No.)

16092090

BASELINE ACTUAL EMISSIONS (BAE) FOR GREENHOUSE GASES (GHGs) POLLUTANT EMISSIONS ON CO_2 EQUIVALENT EMISSIONS (CO_2e)
BASIS: FOR PSD MAJOR SOURCES ONLY

Company Name:	Date:	Registration Number:

Unit Ref. No.	Average Actual Annual Emissions to the Atmosphere of GHGs for the Period: _____, 20___ to _____, 20___					
	CO_2 (Carbon Dioxide)	N_2O (Nitrous Oxide)	CH_4 (Methane)	HFCs (Hydrofluorocarbons)	PFCs (Perfluorocarbons)	SF_6 (Sulfur Hexafluoride)
	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
TOTAL:						

☐ Background Documentation Attached (totals and per Unit Ref. No.)

190920090

OPERATING PERIODS:

Company Name: C4GT (GE Option)	Date: June 2016	Registration Number: TBD

Unit Ref. No.	Percent Annual Use/Throughput by Season				Normal Process/Equipment Operating Schedule			Maximum Process/Equipment Operating Schedule		
	December / February	March / May	June / August	September / November	Hours per Day	Days per Week	Weeks per Year	Hours per Day	Days per Week	Weeks per Year
CT-1	25	25	25	25				24	7	52
CT-2	25	25	25	25				24	7	52
B-1	25	25	25	25				24	7	52
DPH -1	25	25	25	25				24	7	52
EG-1	25	25	25	25				24	7	52
FWP -1	25	25	25	25				24	7	52
CB-1	25	25	25	25				24	7	52
CWT -1	25	25	25	25				24	7	52

Maximum Facility Operating Schedule		
Hours per Day	Days per Week	Weeks per Year
24	7	52

160920060

APPENDIX B

VENDOR INFORMATION AND EMISSIONS CALCULATIONS

Table B-1 Annual Emissions Based on 8,760 hours of Steady-State Operation - GE 7FA.02

				Emission Rates															
Source			Operations	NO_x		CO		VOC		PM10		PM2.5		SO_2		H_2SO_4		Lead*	
			(hrs/yr)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
CC - Natural Gas																			
CT1	With Duct Firing	8760	8,760	29.19	127.85	17.75	77.72	10.15	44.47	17.33	75.88	17.33	75.88	4.35	19.04	2.67	11.71	1.87E-03	0.01
	without Duct Firing		0	26.57	0.00	16.17	0.00	4.62	0.00	12.18	0.00	12.18	0.00	3.97	0.00	2.44	0.00	1.71E-03	0.00
CT2	With Duct Firing	8760	8,760	29.19	127.85	17.75	77.72	10.15	44.47	17.33	75.88	17.33	75.88	4.35	19.04	2.67	11.71	1.87E-03	0.01
	without Duct Firing		0	26.57	0.00	16.17	0.00	4.62	0.00	12.18	0.00	12.18	0.00	3.97	0.00	2.44	0.00	1.71E-03	0.00
Subtotal - Normal Operations					255.70		155.45		88.94		151.77		151.77		38.09		23.42		0.02
Auxiliary Boiler			8,760	1.16	3.06	3.89	17.02	0.53	2.30	0.74	3.22	0.74	3.22	1.24E-01	5.41E-01	9.46E-03	4.14E-02	5.15E-05	2.25E-04
Dew Point Heater			8,760	0.18	0.77	0.59	2.59	0.08	0.35	0.11	0.49	0.11	0.49	1.88E-02	8.24E-02	1.44E-03	6.31E-03	7.84E-06	3.43E-05
Emergency Generator			500	26.91	6.73	20.82	5.21	11.53	2.88	1.20	0.30	1.20	0.30	9.72E-05	2.43E-05	7.43E-06	1.86E-06	2.29E-04	5.72E-05
Firewater pump			500	1.46	0.36	1.81	0.45	0.63	0.16	0.10	0.03	0.10	0.03	6.46E-01	1.61E-01	1.09E-04	2.72E-05	1.98E-05	4.96E-06
Cooling Tower			8,760							0.03	0.14	1.20E-03	0.01						
Oil Storage Tanks (2 tanks)			8,760					2.89E-04	1.27E-03										
Subtotal - Auxiliary Sources					12.92		25.27		5.69		4.18		4.04		0.78		0.05		3.22E-04
Facility Total					268.63		180.71		94.64		155.95		155.81		38.87		23.46		0.02
PSD Major Source Threshold					100		100		100		100		100		100				0.60
Major Source					Yes		Yes		No		Yes		Yes		No				No
PSD Significant Emission Rate					40		100		40		15		10		40		7.00		0.60
Subject to PSD					Yes		Yes		Yes		Yes		Yes		No		Yes		No

* Lead emmission rates are based on the worst case firing rate and the AP-42 Section 1.4 emission factor of 0.0005 lb/MMcf for Natural Gas

** CCT Calculated

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Table B-3 Startup and Shutdown Emissions - GE 7HA.02

GE 2x1 7HA.02 Combined Cycle Startup/Shutdown Emissions for Novi Charles City EC/NOVI Energy LLC April 20, 2016

Proposed C4GT Startup/Shutdown

Per GT/HRSG Stack	NOx	CO	VOC as Methane	Total PM	Fuel	Duration
Cold Start	273	840	60	12	1331	60
Warm Start	163	188	13	10	1163	50
Hot Start	105	180	14	6	480	30
Shutdown	18	100	65	8	350	30
	Pounds [lb] per Event				MMBTtu	Minutes

GE Provided Data

Per GT/HRSG Stack	NOx	CO	VOC as Methane	Total PM	Fuel	Duration
Cold Start	250	770	55	11	1220	55
Warm Start	130	150	10	8	930	40
Hot Start	70	120	9	4	320	20
Shutdown	7	40	26	3	140	12
	Pounds [lb] per Event				MMBTtu	Minutes

Table B-4 Annual Emissions with Startups and Shutdowns - GE 7HA.02

				Emission Rates															
Source			Operations	NO_x		CO		VOC		PM10		PM2.5		SO_2		H_2SO_4		Lead*	
			(hrs/yr)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
CC - Natural Gas																			
CT1	With Duct Firing	8760	8,492	29.19	123.94	17.75	75.34	10.15	43.11	17.33	73.56	17.33	73.56	4.35	18.46	2.67	11.35	1.87E-03	0.01
	without Duct Firing		0	26.57	0.00	16.17	0.00	4.62	0.00	12.18	0.00	12.18	0.00	3.97	0.00	2.44	0.00	1.71E-03	0.00
CT2	With Duct Firing	8760	8,492	29.19	123.94	17.75	75.34	10.15	43.11	17.33	73.56	17.33	73.56	4.35	18.46	2.67	11.35	1.87E-03	0.01
	without Duct Firing		0	26.57	0.00	16.17	0.00	4.62	0.00	12.18	0.00	12.18	0.00	3.97	0.00	2.44	0.00	1.71E-03	0.00
Subtotal - Normal Operations					247.87		150.68		86.22		147.12		147.12		36.92		22.70		0.02
	events/yr	hrs/event	hrs/yr	(lb/event)	(tpy)	(lb/event)	(tpy)	(lb/event)	(tpy)	(lb/event)	(tpy)	(lb/event)	(tpy)	(lb/event)**	(tpy)	(lb/event)**	(tpy)	(lb/event)	(tpy)
CT1																			
Cold	10	1.00	10	272.73	1.36	840.00	4.20	60.00	0.30	12.00	0.06	12.00	0.06	1.52	0.01	0.93	0.00		
Warm	40	0.83	33	162.50	3.25	187.50	3.75	12.50	0.25	10.00	0.20	10.00	0.20	1.33	0.03	0.81	0.02		
Hot	200	0.50	100	105.00	10.50	180.00	18.00	13.50	1.35	6.00	0.60	6.00	0.60	0.55	0.05	0.34	0.03		
Shutdown - NG	250	0.50	125	17.50	2.19	100.00	12.50	65.00	8.13	7.50	0.94	7.50	0.94	0.40	0.05	0.25	0.03		
CT2																			
Cold	10	1.00	10	272.73	1.36	840.00	4.20	60.00	0.30	12.00	0.06	12.00	0.06	1.52	0.01	0.93	0.00		
Warm	40	0.83	33	162.50	3.25	187.50	3.75	12.50	0.25	10.00	0.20	10.00	0.20	1.33	0.03	0.81	0.02		
Hot	200	0.50	100	105.00	10.50	180.00	18.00	13.50	1.35	6.00	0.60	6.00	0.60	0.55	0.05	0.34	0.03		
Shutdown - NG	250	0.50	125	17.50	2.19	100.00	12.50	65.00	8.13	7.50	0.94	7.50	0.94	0.40	0.05	0.25	0.03		
Subtotal - Startups/Shutdowns					34.60		76.90		20.05		3.60		3.60		0.28		0.17		
Auxiliary Boiler			8,760	1.16	5.06	3.89	17.02	0.53	2.30	0.74	3.22	0.74	3.22	1.24E-01	5.41E-01	9.46E-03	4.14E-02	5.15E-05	2.25E-04
Dew Point Heater			8,760	0.18	0.77	0.59	2.59	0.08	0.35	0.11	0.49	0.11	0.49	1.88E-02	8.24E-02	1.44E-03	6.31E-03	7.84E-06	3.43E-05
Emergency Generator			500	26.91	6.73	20.82	5.21	11.53	2.88	1.20	0.30	1.20	0.30	9.72E-05	2.43E-05	7.44E-06	1.86E-06	2.29E-04	5.72E-05
Firewater pump			500	1.46	0.36	1.81	0.45	0.63	0.16	0.10	0.03	0.10	0.03	6.46E-01	1.61E-01	1.09E-04	2.72E-05	1.92E-05	4.96E-06
Cooling Tower			8,760							0.03	0.14	0.00	0.01						
Oil Storage Tank (2 Tanks)			8,760					2.89E-04	1.27E-03										
Subtotal - Auxiliary Sources					12.92		25.27		5.69		4.18		4.04		0.78		0.05		3.22E-04
Facility Total					295.40		252.85		111.96		154.89		154.75		37.98		22.92		0.02
PSD Major Source Threshold					100		100		100		100		100		100				0.60
Major Source					Yes		Yes		Yes		Yes		Yes		No				No
PSD Significant Emission Rate					40		100		40		15		10		40		7.00		0.60
Subject to PSD					Yes		Yes		Yes		Yes		Yes		No		Yes		No

* Lead emission rates are based on the worst case firing rate and the AP-42 Section 1.4 emission factor of 0.0005 lb/MMcf for Natural Gas

** ECT Calculated

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Table B-5 Auxiliary Boiler Emissions - GE 7FA.02

POTENTIAL EMISSION INVENTORY WORKSHEET

EMISSION SOURCE TYPE

FACILITY AND SOURCE DESCRIPTION

Emission Source Description:	Auxilairy Boiler
Emission Control Method(s)/ID No.(s):	None
Emission Point Description:	105 MMBTU/hr heat input

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Emission Factor (lb/MMBtu) x Heat Input (MMBtu/hr)

Emission (ton/yr) = Emission Factor (lb/hr) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

INPUT DATA AND EMISSIONS CALCULATIONS

Permitted Hours:	8,760	hrs/yr
Testing Hours:		hrs/yr
Heat Input:	105.00	MMBtu/hr
Heating value	1,020	Btu/scf

Pollutant	Emission Factor lb/mmBtu	Potential Emission Rates Per Unit (lb/hr)	Per Unit (tpy)				
NO_x	1.10E-02	1.16E+00	5.06E+00				
CO	3.70E-02	3.89E+00	1.70E+01				
VOC	5.00E-03	5.25E-01	2.30E+00				
SO_2	1.18E-03	1.24E-01	5.41E-01				
PM	7.00E-03	7.35E-01	3.22E+00				
PM_{10}	7.00E-03	7.35E-01	3.22E+00				
$PM_{2.5}$	7.00E-03	7.35E-01	3.22E+00				
H2SO4	9.01E-05	9.46E-03	4.14E-02				
Lead	4.90E-07	5.15E-05	2.25E-04				

SOURCES OF INPUT DATA

Parameter	Data Source
NOx, CO, VOC, PM/PM10/PM2.5	Vendor/B&V, 2016
SO2	AP42: Section 1.4 Table 1.4-2; SO2 emission factor based 0.4 gr/100 scf
H2SO4	Based on 5% conversion of SO2 to SO3 and 100% conversion of SO3 to H2SO4
Lead	AP-42 Section 1.4

NOTES AND OBSERVATIONS

16082009

Table B-6 Dew Point Heater Emissions - GE 7FA.02

POTENTIAL EMISSION INVENTORY WORKSHEET

EMISSION SOURCE TYPE

FACILITY AND SOURCE DESCRIPTION

Emission Source Description:	Dew Point Heater
Emission Control Method(s)/ID No.(s):	None
Emission Point Description:	16 MMBTU/hr heat input

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Emission Factor (lb/MMBtu) x Heat Input (MMBtu/hr)

Emission (ton/yr) = Emission Factor (lb/hr) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

INPUT DATA AND EMISSIONS CALCULATIONS

Permitted Hours:	8,760	hrs/yr
Testing Hours:		hrs/yr
Heat Input:	16.00	MMBtu/hr
Heating value	1,020	Btu/scf

Pollutant	Emission Factor lb/mmBtu	Potential Emission Rates Per Unit (lb/hr)	Per Unit (tpy)				
NO_x	1.10E-02	1.76E-01	7.71E-01				
CO	3.70E-02	5.92E-01	2.59E+00				
VOC	5.00E-03	8.00E-02	3.50E-01				
SO_2	1.18E-03	1.88E-02	8.24E-02				
PM	7.00E-03	1.12E-01	4.91E-01				
PM_{10}	7.00E-03	1.12E-01	4.91E-01				
$PM_{2.5}$	7.00E-03	1.12E-01	4.91E-01				
H2SO4	9.01E-05	1.44E-03	6.31E-03				
Lead	4.90E-07	7.84E-06	3.43E-05				

SOURCES OF INPUT DATA

Parameter	Data Source
NOx, CO, VOC, PM/PM10/PM2.5	Vendor Data, 2016
SO2	AP42: Section 1.4 Table 1.4-2; SO2 emission factor adjusted from 0.2 to 0.4 gr/100 scf
H2SO4	Based on 5% conversion of SO2 to SO3 and 100% conversion of SO3 to H2SO4
Lead	AP-42 Section 1.4

NOTES AND OBSERVATIONS

16062000

Table B-7 Diesel Emergency Generator Emissions - GE 7FA.02

POTENTIAL EMISSION INVENTORY WORKSHEET

EMISSION SOURCE TYPE

INTERNAL COMBUSTION ENGINES > 600 HP

FACILITY AND SOURCE DESCRIPTION

Emission Source Description:	Emergency Generator	
Emission Control Method(s)/ID No.(s):	None	
Emission Point Description:	3633 -HP Diesel Engine	2500 kW

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Emission Factor (g/hp-hr) x Engine power rating (BHP)

Emission (ton/yr) = Emission Factor (lb/hr) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

INPUT DATA AND EMISSIONS CALCULATIONS

Permitted Hours:	500	hrs/yr	Fuel Flow:	173.5 gal/hr
Testing Hours:	100	hrs/yr		
No. of Engines:	1		Diesel Sulfur Content:	0.0015 weight %
Heat Input:	25.43	MMBtu/hr (HHV)	Diesel Heat Content:	7,000 Btu/hp-hr

Pollutant	Emission Factor		Potential Emission Rates		Pollutant	Emission Factor	Potential Emission Rates	
	g/kW-hr	g/-hp-hr	Per Unit (lb/hr)	Per Unit (tpy)		(lb/MMBtu)	Per Unit (lb/hr)	Per Unit (tpy)
NO_x		3.36	26.91	6.73	1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00
CO		2.60	20.82	5.21	Acetaldehyde	2.52E-05	6.41E-04	1.60E-04
VOC		1.44	11.53	2.88	Acrolein	7.88E-06	2.00E-04	5.01E-05
SO_2		0.00001	9.72E-05	2.43E-05	Benzene	7.76E-04	1.97E-02	4.93E-03
PM		0.15	1.20	0.30	Formaldehyde	7.89E-05	2.01E-03	5.02E-04
PM_{10}		0.15	1.20	0.30	Naphthalene	1.30E-04	3.31E-03	8.27E-04
$PM_{2.5}$		0.15	1.20	0.30	PAH	2.12E-04	5.39E-03	1.35E-03
H_2SO_4		9.29E-07	7.44E-06	1.86E-06	Propylene	2.79E-03	7.10E-02	1.77E-02
Lead		9.00E-06	2.29E-04	5.72E-05	Toluene	2.81E-04	7.15E-03	1.79E-03
Highest HAP			7.10E-02	1.77E-02	Xylenes	1.93E-04	4.91E-03	1.23E-03
Total HAPs			1.15E-01	2.86E-02				

SOURCES OF INPUT DATA

Parameter	Data Source
NOx, CO, VOC, PM/PM10/PM2.5	40 CFR 60, Subpart IIII. NOx and VOC is a combined rate of 4.8 g/hp-hr. Assumed 70% NOx and 30% VOC
SO2	AP42: Section 3.4 Table 3.4-1
H2SO4	Based on 5% conversion of SO2 to SO3 and 100% conversion of SO3 to H2SO4
Lead	AP-42 Table 1.3-10. Unit is lb/MMBtu
HAPS	AP42: Section 3.4 Table 3.4-3
Diesel Heat Content	AP-42 Section 3.3, footnote a to table 3.3-1

NOTES AND OBSERVATIONS

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Table B-8 Diesel Emergency Fire-Water Pump Emissions - GE 7FA.02

POTENTIAL EMISSION INVENTORY WORKSHEET

EMISSION SOURCE TYPE

INTERNAL COMBUSTION ENGINES < 600 HP

FACILITY AND SOURCE DESCRIPTION

Emission Source Description:	Fire Water Pump
Emission Control Method(s)/ID No.(s):	None
Emission Point Description:	315 -HP Diesel Engine

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Emission Factor (g/hp-hr) x Engine power rating (BHP)

Emission (ton/yr) = Emission Factor (lb/hr) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

INPUT DATA AND EMISSIONS CALCULATIONS

Permitted Hours:	500	hrs/yr	Fuel Flow:	gal/hr
Testing Hours:	100	hrs/yr		
No. of Engines:	1		Diesel Sulfur Content:	0.0015 weight %
Heat Input:	2.21	MMBtu/hr (HHV)	Diesel Heat Content:	7,000 Btu/hp-hr

Pollutant	Emission Factor		Potential Emission Rates		Pollutant	Emission Factor	Potential Emission Rates	
	g/hp-hr	lb/-hp-hr	Per Unit (lb/hr)	Per Unit (tpy)		(lb/MMBtu)	Per Unit (lb/hr)	Per Unit (tpy)
NO_x	2.10		1.46	0.365	1,3-Butadiene	3.91E-05	8.62E-05	2.16E-05
CO	2.60		1.81	0.451	Acetaldehyde	7.67E-04	1.69E-03	4.23E-04
VOC	0.90		0.63	0.156	Acrolein	9.25E-05	2.04E-04	5.10E-05
SO_2		0.00205	6.46E-01	1.61E-01	Benzene	9.33E-04	2.06E-03	5.14E-04
PM	0.15		0.10	0.026	Formaldehyde	1.18E-03	2.60E-03	6.50E-04
PM_{10}	0.15		0.10	0.026	Naphthalene	8.48E-05	1.87E-04	4.67E-05
$PM_{2.5}$	0.15		0.10	0.026	PAH	1.68E-04	3.70E-04	9.26E-05
H_2SO_4		1.57E-04	1.09E-04	2.72E-05	Propylene	2.58E-03	5.69E-03	1.42E-03
Lead	9.00E-06		1.98E-05	4.96E-06	Toluene	4.09E-04	9.02E-04	2.25E-04
Highest HAP			5.69E-03	1.42E-03	Xylenes	2.85E-04	6.28E-04	1.57E-04
Total HAPs			1.44E-02	3.61E-03				

SOURCES OF INPUT DATA

Parameter	Data Source
NOx, CO, VOC, PM/PM10/PM2.5	40 CFR 60, Subpart IIII. NOx and VOC is a combined rate of 3.0 g/hp-hr. Assumed 70% NOx and 30% VOC
SO2	AP42: Section 3.3 Table 3.3-1
H2SO4	Based on 5% conversion of SO2 to SO3 and 100% conversion of SO3 to H2SO4
Lead	AP-42 Table 1.3-10. Unit is lb/MMBtu
HAPS	AP42: Section 3.3 Table 3.3-2
Diesel Heat Content	AP-42 Section 3.3, footnote a to table 3.3-1

NOTES AND OBSERVATIONS

16092090

Table B-9 Cooling Tower Emissions - GE 7FA.02

Emissions Data Summary

C4GT
Cooling Tower

Water Circulation Rate (a), 18 cells (a)	(GPM)	348,500
Total Liquid Drift (b)	(%)	0.0005
Expected TDS/TSS of Circulated Water (c)	(ppmw)	6,250
Emission Rate - Total Cooling Tower		
Total Suspended Particulate (d)	(Lbs/Hr)	5.45
	(Tons/Yr)	23.88
PM-10 (e)	(Lbs/Hr)	0.033
	(Tons/Yr)	0.143
PM-2.5 (f)	(Lbs/Hr)	1.20E-03
	(Tons/Yr)	5.25E-03
Emission Rate - Per Vent (g)		
Total Suspended Particulate	(Lbs/Hr)	3.03E-01
	(Tons/Yr)	1.33E+00
PM-10	(Lbs/Hr)	1.82E-03
	(Tons/Yr)	7.96E-03
PM-2.5	(Lbs/Hr)	6.66E-05
	(Tons/Yr)	2.92E-04

Notes:
(a) Design Water Circulation Rate, Gallons/Minute (gpm)
(b) Design Total Liquid Drift, Percent (%)
(c) Assumed a TDS concentration of 1250 ppm with 5 cycles of concentration
(d) Based on USEPA AP-42 Section 13.4 Wet Cooling Towers, Table 13.4-1. Modified to Cooling Tower Design
(e) PM-10 based on 0.6% of TSP. Assumed that PM-10 generated by water droplets with a diameter of less than 100 microns which account for 0.6% of emitted from typical cooling tower.
(f) PM-2.5 based on 0.022% of TSP. Assumed that PM-2.5 generated by water droplets with a diameter of less than 25 microns which account for 0.022% of emitted from typical cooling tower.
(g) Cooling tower has eighteen cells. Each emits 1/18 of total tower emissions.

Equations:
Lbs/Hr = (Water Circulation Rate,GPM)*60*(Drift,%) / 100 * (8.3453 Lbs/Gal) * (TDS, Lbs PM/1,000,000 Lbs Water)
Tons/Yr = (Lbs/Hr) * (8,760 Hrs/Yr) / (2,000 Lbs/Ton)

Conversion Factors:
1 ton = 2000 lbs

Table B-9 Cooling Tower Emissions - GE 7FA.02

CALCULATIONS AND COMPUTATIONS

C4GT
Cooling Tower

Calculated Particulate Size for Typical Cooling Tower
Drop Size Distribution

Typical Cooling Tower Droplet Size		Particle Size
Mean	Distribution	
(D_d, Microns)	(% Mass Smaller Than)	(D_p, Microns)
15	0.000	2.193013304
25	0.022	3.655022173
35	0.026	5.117031042
45	0.036	6.579039911
55	0.059	8.04104878
65	0.1	9.503057649
80	0.6	11.69607095
100	2.5	14.62008869
120	7.7	17.54410643
140	14.6	20.46812417
165	25.3	24.12314634
195	33.9	28.50917295
225	48.0	32.89519955
255	59.0	37.28122616
285	68.1	41.66725277
325	77.8	47.51528825
375	89.9	54.82533259
425	93.1	62.13537694
475	96.2	69.44542128
550	99.4	80.4104878
650	100.0	95.03057649

$D_p = D_d * [(p_d/p_p) * (Solids) / 1{,}000{,}000)]$ ^1/3

where:

pd =	1.04 gm/cm^3
pp =	2.08 gm/cm^3
Solids =	6,250 ppm
C=	1

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Table B-10 Hazardous Air Pollutant Emissions - GE 7FA.02

Pollutant	Turbine		Duct Burner		Dew Point Heater		Aux Boiler		Emergency Generator		FWP		Facility Total	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1,3-Butadiene	2.99E-03	1.31E-02									8.62E-05	2.16E-05	3.08E-03	1.31E-02
2-Methylnaphthalene			2.24E-05	9.79E-05	3.76E-07	1.65E-06	2.47E-06	1.08E-05					2.52E-05	1.10E-04
3-Methylchloranthrene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
7,12-Dimethylbenz(a)anthracene			1.49E-05	6.53E-05	2.51E-07	1.10E-06	1.65E-06	7.21E-06					1.68E-05	7.36E-05
Acenaphthene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Acenaphthylene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Acetaldehyde	2.79E-01	1.22E+00							6.41E-04	1.60E-04	1.69E-03	4.23E-04	2.81E-01	1.22E+00
Acrolein	4.46E-02	1.95E-01							2.00E-04	5.01E-05	2.04E-04	5.10E-05	4.50E-02	1.95E-01
Anthracene			2.24E-06	9.79E-06	3.76E-08	1.65E-07	2.47E-07	1.08E-06					2.52E-06	1.10E-05
Benz(a)anthracene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Benzene	8.36E-02	3.66E-01	1.96E-03	8.57E-03	3.29E-05	1.44E-04	2.16E-04	9.47E-04	1.97E-02	4.93E-03	2.06E-03	5.14E-04	1.08E-01	3.81E-01
Benzo(a)pyrene			1.12E-06	4.90E-06	1.88E-08	8.24E-08	1.24E-07	5.41E-07					1.26E-06	5.52E-06
Benzo(b)fluoranthene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Benzo(g,h,i)perylene			1.12E-06	4.90E-06	1.88E-08	8.24E-08	1.24E-07	5.41E-07					1.26E-06	5.52E-06
Benzo(k)fluoranthene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Chrysene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Dibenzo(a,h)anthracene			1.12E-06	4.90E-06	1.88E-08	8.24E-08	1.24E-07	5.41E-07					1.26E-06	5.52E-06
Dichlorobenzene			1.12E-03	4.90E-03	1.88E-05	8.24E-05	1.24E-04	5.41E-04					1.26E-03	5.52E-03
Ethylbenzene	2.23E-01	9.76E-01											2.23E-01	9.76E-01
Fluoranthene			2.79E-06	1.22E-05	4.71E-08	2.06E-07	3.09E-07	1.35E-06					3.15E-06	1.38E-05
Fluorene			2.61E-06	1.14E-05	4.39E-08	1.92E-07	2.88E-07	1.26E-06					2.94E-06	1.29E-05
Formaldehyde	1.53E+00	6.71E+00	6.99E-02	3.06E-01	1.18E-03	5.15E-03	7.72E-03	3.38E-02	2.01E-03	5.02E-04	2.60E-03	6.50E-04	1.62E+00	7.06E+00
Hexane			1.21E-03	5.30E-03	7.22E-05	3.16E-04	1.34E-04	5.86E-04					1.42E-03	6.21E-03
Indeno(1,2,3-cd)pyrene			1.68E-06	7.34E-06	2.82E-08	1.24E-07	1.85E-07	8.12E-07					1.89E-06	8.28E-06
Naphthalene	9.05E-03	3.97E-02	5.68E-04	2.49E-03	9.57E-06	4.19E-05	6.28E-05	2.75E-04	3.31E-03	8.27E-04	1.87E-04	4.67E-05	1.32E-02	4.33E-02
PAH	1.53E-02	6.71E-02							5.39E-03	1.35E-03	3.70E-04	9.26E-05	2.11E-02	6.85E-02
Phenanthrene			1.58E-05	6.93E-05	2.67E-07	1.17E-06	1.75E-06	7.67E-06					1.78E-05	7.82E-05
Propylene Oxide	2.02E-01	8.85E-01							7.10E-02	1.77E-02	5.69E-03	1.42E-03	2.79E-01	9.04E-01
Pyrene			4.66E-06	2.04E-05	7.84E-08	3.44E-07	5.15E-07	2.25E-06					5.25E-06	2.30E-05
Toluene	9.05E-01	3.97E+00	3.17E-03	1.39E-02	5.33E-05	2.34E-04	3.50E-04	1.53E-03	7.15E-03	1.79E-03	9.02E-04	2.25E-04	9.17E-01	3.98E+00
Xylenes	4.46E-01	1.95E+00							4.91E-03	1.23E-03	6.28E-04	1.57E-04	4.51E-01	1.95E+00
Arsenic			1.86E-04	8.16E-04	3.14E-06	1.37E-05	2.06E-05	9.02E-05					2.10E-04	9.20E-04
Beryllium			1.12E-05	4.90E-05	1.88E-07	8.24E-07	1.24E-06	5.41E-06					1.26E-05	5.52E-05
Cadmium			1.02E-03	4.49E-03	1.73E-05	7.56E-05	1.13E-04	4.96E-04					1.15E-03	5.06E-03
Chromium			1.30E-03	5.71E-03	2.20E-05	9.62E-05	1.44E-04	6.31E-04					1.47E-03	6.44E-03
Cobalt			7.82E-05	3.43E-04	1.32E-06	5.77E-06	8.65E-06	3.79E-05					8.82E-05	3.86E-04
Lead	3.41E-03	1.50E-02	4.66E-04	2.04E-03	7.84E-06	3.44E-05	5.15E-05	2.25E-04	2.29E-04	5.72E-05	1.98E-05	4.96E-06	4.19E-03	1.73E-02
Manganese			3.54E-04	1.55E-03	5.96E-06	2.61E-05	3.91E-05	1.71E-04					3.99E-04	1.75E-03
Mercury			2.42E-04	1.06E-03	4.08E-06	1.79E-05	2.68E-05	1.17E-04					2.73E-04	1.20E-03
Nickel			1.96E-03	8.57E-03	3.29E-05	1.44E-04	2.16E-04	9.47E-04					2.20E-03	9.66E-03
Selenium			2.24E-05	9.79E-05	3.76E-07	1.65E-06	2.47E-06	1.08E-05					2.52E-05	1.10E-04
Maximum HAP	1.53E+00	6.71E+00	6.99E-02	3.06E-01	1.18E-03	5.15E-03	7.72E-03	3.38E-02	7.10E-02	1.77E-02	5.69E-03	1.42E-03		7.06
Facility Total	3.75E+00	1.64E+01	8.36E-02	3.66E-01	1.46E-03	6.39E-03	9.24E-03	4.05E-02	1.15E-01	2.86E-02	1.44E-02	3.61E-03		16.85

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Table B-11 Turbine Hazardous Air Pollutant Emissions - GE 7FA.02

Summary of HAP Emission Rates -Combustion Turbine

NG-Firing: Maximum CT HAP Emissions

Parameter	Units	
Maximum Heat Input (HHV):	MMBtu/hr	3,482
Maximum Annual Hours:	hrs/yr	8,760

Pollutant	CT Emission Factor[1] (lb/MMBtu)	CT1 Total (lb/hr)	CT2 Total (lb/hr)	CT Total TPY
1,3-Butadiene	4.3E-07	1.50E-03	1.50E-03	1.31E-02
Acetaldehyde	4.0E-05	1.39E-01	1.39E-01	1.22E+00
Acrolein	6.4E-06	2.23E-02	2.23E-02	1.95E-01
Benzene	1.2E-05	4.18E-02	4.18E-02	3.66E-01
Ethylbenzene	3.2E-05	1.11E-01	1.11E-01	9.76E-01
Formaldehyde[2]	2.2E-04	7.66E-01	7.66E-01	6.71E+00
Naphthalene	1.3E-06	4.53E-03	4.53E-03	3.97E-02
Polycyclic Aromatic Hydrocarbons (PAHs)	2.2E-06	7.66E-03	7.66E-03	6.71E-02
Propylene Oxide	2.9E-05	1.01E-01	1.01E-01	8.85E-01
Toluene	1.3E-04	4.53E-01	4.53E-01	3.97E+00
Xylene	6.4E-05	2.23E-01	2.23E-01	1.95E+00
Lead	4.9E-07	1.71E-03	1.71E-03	1.50E-02
Max. individual HAP				6.71
Total HAPs				16.41

Notes:
CT = Combustion Turbine

[1] - EPA AP-42, Table 3.1-3, April 2000.

[2] CT vendor emissions factor- based on meeting 91 ppbvd @ 15% O2

Table B-12 Duct Burner Hazardous Air Pollutant Emissions - GE 7FA.02

	Heat Input:	475	MMBtu/hr				
	Permitted Hours:	8,760	hrs/yr				

CAS No.	Pollutant	Emission Factor[a] (lb/10^6 scf)	Emission Factor (lb/MMBtu)	Emission Factor Rating	DB1 Emission Rate (lb/hr)	DB2 Emission Rate (lb/hr)	Emission Rate (tpy)
91-57-6	2-Methylnaphthalene	2.40E-05	2.35E-08	D	1.12E-05	1.12E-05	9.79E-05
56-49-5	3-Methylchloranthrene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
	7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-08	E	7.45E-06	7.45E-06	6.53E-05
83-32-9	Acenaphthene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
203-96-8	Acenaphthylene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
120-12-7	Anthracene	2.40E-06	2.35E-09	E	1.12E-06	1.12E-06	9.79E-06
56-55-3	Benz(a)anthracene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
71-43-2	Benzene	2.10E-03	2.06E-06	B	9.78E-04	9.78E-04	8.57E-03
50-32-8	Benzo(a)pyrene	1.20E-06	1.18E-09	E	5.59E-07	5.59E-07	4.90E-06
205-99-2	Benzo(b)fluoranthene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
191-24-2	Benzo(g,h,i)perylene	1.20E-06	1.18E-09	E	5.59E-07	5.59E-07	4.90E-06
207-08-9	Benzo(k)fluoranthene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
218-01-9	Chrysene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
53-70-3	Dibenzo(a,h)anthracene	1.20E-06	1.18E-09	E	5.59E-07	5.59E-07	4.90E-06
25321-22-6	Dichlorobenzene	1.20E-03	1.18E-06	E	5.59E-04	5.59E-04	4.90E-03
206-44-0	Fluoranthene	3.00E-06	2.94E-09	E	1.40E-06	1.40E-06	1.22E-05
86-73-7	Fluorene	2.80E-06	2.75E-09	E	1.30E-06	1.30E-06	1.14E-05
50-00-0	Formaldehyde	7.50E-02	7.35E-05	B	3.49E-02	3.49E-02	3.06E-01
110-54-3	Hexane[b]	1.30E-03	1.27E-06	E	6.05E-04	6.05E-04	5.30E-03
193-39-5	Indeno(1,2,3-cd)pyrene	1.80E-06	1.76E-09	E	8.38E-07	8.38E-07	7.34E-06
91-20-3	Naphthalene	6.10E-04	5.98E-07	E	2.84E-04	2.84E-04	2.49E-03
85-01-8	Phenanathrene	1.70E-05	1.67E-08	D	7.92E-06	7.92E-06	6.93E-05
129-00-0	Pyrene	5.00E-06	4.90E-09	E	2.33E-06	2.33E-06	2.04E-05
108-88-3	Toluene	3.40E-03	3.33E-06	C	1.58E-03	1.58E-03	1.39E-02
7440-38-2	Arsenic	2.00E-04	1.96E-07	E	9.31E-05	9.31E-05	8.16E-04
7440-41-7	Beryllium	1.20E-05	1.18E-08	E	5.59E-06	5.59E-06	4.90E-05
7440-43-9	Cadmium	1.10E-03	1.08E-06	D	5.12E-04	5.12E-04	4.49E-03
7440-47-3	Chromium	1.40E-03	1.37E-06	D	6.52E-04	6.52E-04	5.71E-03
7440-48-4	Cobalt	8.40E-05	8.24E-08	D	3.91E-05	3.91E-05	3.43E-04
7439-92-1	Lead	5.00E-04	4.90E-07		2.33E-04	2.33E-04	2.04E-03
7439-96-5	Manganese	3.80E-04	3.73E-07	D	1.77E-04	1.77E-04	1.55E-03
7439-97-6	Mercury	2.60E-04	2.55E-07	D	1.21E-04	1.21E-04	1.06E-03
7440-02-0	Nickel	2.10E-03	2.06E-06	C	9.78E-04	9.78E-04	8.57E-03
7782-49-2	Selenium	2.40E-05	2.35E-08	E	1.12E-05	1.12E-05	9.79E-05
Maximum HAP							0.31
Total							0.37

a) EPA AP-42, Tables 1.4-3 and 1.4-4, July 1998

b) Emission factor for hexane for natural gas fired external combustion equipment presented in AP-42 Section 1.4 are are not consistent with other organic HAPs present in Table 1.4-3. Therefore, hexane EFs for natural gas fired external combustion equipment are baded on B 2588 combustion emission factors, Ventura County APCD

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Table B-13 Dew Point Heater Hazardous Air Pollutant Emissions - GE 7FA.02

	Heat Input:	16.00	MMBtu/hr			
	Permitted Hours:	8,760	hrs/yr			

CAS No.	Pollutant	Emission Factor[a] ($lb/10^6$ scf)	Emission Factor (lb/MMBtu)	Emission Factor Rating	Emission Rate (lb/hr)	Emission Rate (tpy)
91-57-6	2-Methylnaphthalene	2.40E-05	2.35E-08	D	3.76E-07	1.65E-06
56-49-5	3-Methylchloranthrene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
	7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-08	E	2.51E-07	1.10E-06
83-32-9	Acenaphthene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
203-96-8	Acenaphthylene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
120-12-7	Anthracene	2.40E-06	2.35E-09	E	3.76E-08	1.65E-07
56-55-3	Benz(a)anthracene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
71-43-2	Benzene	2.10E-03	2.06E-06	B	3.29E-05	1.44E-04
50-32-8	Benzo(a)pyrene	1.20E-06	1.18E-09	E	1.88E-08	8.24E-08
205-99-2	Benzo(b)fluoranthene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
191-24-2	Benzo(g,h,i)perylene	1.20E-06	1.18E-09	E	1.88E-08	8.24E-08
207-08-9	Benzo(k)fluoranthene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
218-01-9	Chrysene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
53-70-3	Dibenzo(a,h)anthracene	1.20E-06	1.18E-09	E	1.88E-08	8.24E-08
25321-22-6	Dichlorobenzene	1.20E-03	1.18E-06	E	1.88E-05	8.24E-05
206-44-0	Fluoranthene	3.00E-06	2.94E-09	E	4.71E-08	2.06E-07
86-73-7	Fluorene	2.80E-06	2.75E-09	E	4.39E-08	1.92E-07
50-00-0	Formaldehyde	7.50E-02	7.35E-05	B	1.18E-03	5.15E-03
110-54-3	Hexane[b]	4.60E-03	4.51E-06	E	7.22E-05	3.16E-04
193-39-5	Indeno(1,2,3-cd)pyrene	1.80E-06	1.76E-09	E	2.82E-08	1.24E-07
91-20-3	Naphthalene	6.10E-04	5.98E-07	E	9.57E-06	4.19E-05
85-01-8	Phenanathrene	1.70E-05	1.67E-08	D	2.67E-07	1.17E-06
129-00-0	Pyrene	5.00E-06	4.90E-09	E	7.84E-08	3.44E-07
108-88-3	Toluene	3.40E-03	3.33E-06	C	5.33E-05	2.34E-04
7440-38-2	Arsenic	2.00E-04	1.96E-07	E	3.14E-06	1.37E-05
7440-41-7	Beryllium	1.20E-05	1.18E-08	E	1.88E-07	8.24E-07
7440-43-9	Cadmium	1.10E-03	1.08E-06	D	1.73E-05	7.56E-05
7440-47-3	Chromium	1.40E-03	1.37E-06	D	2.20E-05	9.62E-05
7440-48-4	Cobalt	8.40E-05	8.24E-08	D	1.32E-06	5.77E-06
7439-92-1	Lead	5.00E-04	4.90E-07		7.84E-06	3.44E-05
7439-96-5	Manganese	3.80E-04	3.73E-07	D	5.96E-06	2.61E-05
7439-97-6	Mercury	2.60E-04	2.55E-07	D	4.08E-06	1.79E-05
7440-02-0	Nickel	2.10E-03	2.06E-06	C	3.29E-05	1.44E-04
7782-49-2	Selenium	2.40E-05	2.35E-08	E	3.76E-07	1.65E-06
Maximum HAP						0.01
Total						0.01

a) EPA AP-42, Tables 1.4-3 and 1.4-4, July 1998

b) Emission factor for hexane fo natural gas fired external combustion equipment presented in AP-42 Section 1.4 are are not sonsistent with other organic HAPs present in Table 1.4-3. Therefore, hexane Efs for natural gas fired external combustion equipment are baded on B 2588 combustion emission factors, Ventura County APCD

Table B-14 Auxiliary Boiler Hazardous Air Pollutant Emissions - GE 7FA.02

	Heat Input:	105.00	MMBtu/hr			
	Permitted Hours:	8,760	hrs/yr			

CAS No.	Pollutant	Emission Factor[a] (lb/10^6 scf)	Emission Factor (lb/MMBtu)	Emission Factor Rating	Emission Rate (lb/hr)	Emission Rate (tpy)
91-57-6	2-Methylnaphthalene	2.40E-05	2.35E-08	D	2.47E-06	1.08E-05
56-49-5	3-Methylchloranthrene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
	7,12-Dimethylbenz(a)anthracene	1.60E-05	1.57E-08	E	1.65E-06	7.21E-06
83-32-9	Acenaphthene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
203-96-8	Acenaphthylene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
120-12-7	Anthracene	2.40E-06	2.35E-09	E	2.47E-07	1.08E-06
56-55-3	Benz(a)anthracene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
71-43-2	Benzene	2.10E-03	2.06E-06	B	2.16E-04	9.47E-04
50-32-8	Benzo(a)pyrene	1.20E-06	1.18E-09	E	1.24E-07	5.41E-07
205-99-2	Benzo(b)fluoranthene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
191-24-2	Benzo(g,h,i)perylene	1.20E-06	1.18E-09	E	1.24E-07	5.41E-07
207-08-9	Benzo(k)fluoranthene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
218-01-9	Chrysene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
53-70-3	Dibenzo(a,h)anthracene	1.20E-06	1.18E-09	E	1.24E-07	5.41E-07
25321-22-6	Dichlorobenzene	1.20E-03	1.18E-06	E	1.24E-04	5.41E-04
206-44-0	Fluoranthene	3.00E-06	2.94E-09	E	3.09E-07	1.35E-06
86-73-7	Fluorene	2.80E-06	2.75E-09	E	2.88E-07	1.26E-06
50-00-0	Formaldehyde	7.50E-02	7.35E-05	B	7.72E-03	3.38E-02
110-54-3	Hexane[b]	1.30E-03	1.27E-06	E	1.34E-04	5.86E-04
193-39-5	Indeno(1,2,3-cd)pyrene	1.80E-06	1.76E-09	E	1.85E-07	8.12E-07
91-20-3	Naphthalene	6.10E-04	5.98E-07	E	6.28E-05	2.75E-04
85-01-8	Phenanathrene	1.70E-05	1.67E-08	D	1.75E-06	7.67E-06
129-00-0	Pyrene	5.00E-06	4.90E-09	E	5.15E-07	2.25E-06
108-88-3	Toluene	3.40E-03	3.33E-06	C	3.50E-04	1.53E-03
7440-38-2	Arsenic	2.00E-04	1.96E-07	E	2.06E-05	9.02E-05
7440-41-7	Beryllium	1.20E-05	1.18E-08	E	1.24E-06	5.41E-06
7440-43-9	Cadmium	1.10E-03	1.08E-06	D	1.13E-04	4.96E-04
7440-47-3	Chromium	1.40E-03	1.37E-06	D	1.44E-04	6.31E-04
7440-48-4	Cobalt	8.40E-05	8.24E-08	D	8.65E-06	3.79E-05
7439-92-1	Lead	5.00E-04	4.90E-07		5.15E-05	2.25E-04
7439-96-5	Manganese	3.80E-04	3.73E-07	D	3.91E-05	1.71E-04
7439-97-6	Mercury	2.60E-04	2.55E-07	D	2.68E-05	1.17E-04
7440-02-0	Nickel	2.10E-03	2.06E-06	C	2.16E-04	9.47E-04
7782-49-2	Selenium	2.40E-05	2.35E-08	E	2.47E-06	1.08E-05
Maximum HAP						0.03
Total						0.04

a) EPA AP-42, Tables 1.4-3 and 1.4-4, July 1998

b) Emission factor for hexane for natural gas fired external combustion equipment presented in AP-42 Section 1.4 are are not consistent with other organic HAPs present in Table 1.4-3. Therefore, hexane EF for natural gas fired external combustion equipment are based on B 2588 combustion emission factors, Ventura County APCD

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Table B-15 Hazardous Air Pollutant Emissions HAPs Exemption Analysis - GE 7FA.02

Pollutant	Total - New Source		Virginia Air Toxics Exeption Levels		Exempt Hourly	Exempt Annually	SAAC (ug/m3	
	Emission Rate		Maximum Hourly	Annual				
	lb/hr	tpy	lb/hr	tpy	Yes/No	Yes/No	Hourly	Annual
1,3-Butadiene	3.08E-03	1.31E-02	1.452	3.19	Yes	Yes		
2-Methylnaphthalene	2.52E-05	1.10E-04	*	*	Yes	Yes		
3-Methylchloranthrene	1.89E-06	8.28E-06	*	*	Yes	Yes		
7,12-Dimethylbenz(a)anthracene	1.68E-05	7.36E-05	*	*	Yes	Yes		
Acenaphthene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Acenaphthylene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Acetaldehyde	2.81E-01	1.22E+00	8.91	26.1	Yes	Yes		
Acrolein	4.50E-02	1.95E-01	0.02277	0.03335	**No**	**No**	17.25	0.46
Anthracene	2.52E-06	1.10E-05	*	*	Yes	Yes		
Benz(a)anthracene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Benzene	1.08E-01	3.81E-01	2.112	4.64	Yes	Yes		
Benzo(a)pyrene	1.26E-06	5.52E-06	*	*	Yes	Yes		
Benzo(b)fluoranthene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Benzo(g,h,i)perylene	1.26E-06	5.52E-06	*	*	Yes	Yes		
Benzo(k)fluoranthene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Chrysene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Dibenzo(a,h)anthracene	1.26E-06	5.52E-06	*	*	Yes	Yes		
Dichlorobenzene	1.26E-03	5.52E-03	21.813	65.395	Yes	Yes		
Ethylbenzene	2.23E-01	9.76E-01	17.919	62.93	Yes	Yes		
Fluoranthene	3.15E-06	1.38E-05	*	*	Yes	Yes		
Fluorene	2.94E-06	1.29E-05	*	*	Yes	Yes		
Formaldehyde	1.62E+00	7.06E+00	0.0825	0.174	**No**	**No**	62.5	2.4
Hexane	1.42E-03	6.21E-03	11.616	25.52	Yes	Yes		
Indeno(1,2,3-cd)pyrene	1.89E-06	8.28E-06	*	*	Yes	Yes		
Naphthalene	1.32E-02	4.33E-02	2.607	7.54	Yes	Yes		
PAH	2.11E-02	6.85E-02	*	*	Yes	Yes		
Phenanathrene	1.78E-05	7.82E-05	*	*	Yes	Yes		
Propylene Oxide	2.79E-01	9.04E-01	3.168	6.96	Yes	Yes		
Pyrene	5.25E-06	2.30E-05	*	*	Yes	Yes		
Toluene	9.17E-01	3.98E+00	18.645	54.665	Yes	Yes		
Xylenes	4.51E-01	1.95E+00	21.483	62.93	Yes	Yes		
Arsenic	2.10E-04	9.20E-04	0.0132	0.029	Yes	Yes		
Beryllium	1.26E-05	5.52E-05	0.000132	0.00029	Yes	Yes		
Cadmium	1.15E-03	5.06E-03	0.0033	0.00725	Yes	Yes		
Chromium	1.47E-03	6.44E-03	0.0033	0.00725	Yes	Yes		
Cobalt	8.82E-05	3.86E-04	0.0033	0.00725	Yes	Yes		
Lead	4.19E-03	1.73E-02	0.0099	0.02175	Yes	Yes		
Manganese	3.99E-04	1.75E-03	0.33	0.725	Yes	Yes		
Mercury	2.73E-04	1.20E-03	0.0033	0.00725	Yes	Yes		
Nickel	2.20E-03	9.66E-03	0.0066	0.0145	Yes	Yes		
Selenium	2.52E-05	1.10E-04	0.0132	0.029	Yes	Yes		

Table B-16 Greenhouse Gas Emissions - GE 7FA.02

Potential Carbon Dioxide Equivalent (CO_2e) Emissions from the Combustion Sources														
	Heat Input (MMBtu/hr)		Maximum Annual		CO_2			CH_4			N_2O			CO_2e
Emissions Source	LHV *	HHV *	Operating Hours (hr/yr)	Potential Heat Input (MMBtu/yr)	Emission Factor‡ (kg/MMBtu)	Potential Emissions (short tpy) CO_2	Potential Emissions (short tpy) CO_2e ¥	Emission Factor § (kg/MMBtu)	Potential Emissions (short tpy) CH_4	Potential Emissions (short tpy) CO_2e ¥	Emission Factor § (kg/MMBtu)	Potential Emissions (short tpy) N_2O	Potential Emissions (short tpy) CO_2e ¥	Potential Emissions (short tpy)
Scenario 1														
CT1 - Steady State - NG		3,482	8,760	30,504,072	53.02	1,783,102	1,783,102	1.0E-03	33.63	841	1.0E-04	3.36	1002	1,784,945
CT2 - Steady State - NG		3,482	8,760	30,504,072	53.02	1,783,102	1,783,102	1.0E-03	33.63	841	1.0E-04	3.36	1002	1,784,945
CT1 -Duct Burner		475	8,760	4,160,912	53.02	243,224	243,224	1.0E-03	4.59	115	1.0E-04	0.46	137	243,476
CT2 -Duct Burner		475	8,760	4,160,912	53.02	243,224	243,224	1.0E-03	4.59	115	1.0E-04	0.46	137	243,476
														4,056,841
Scenario 2														
CT1 - Steady State - NG		3,482	8,492	29,569,682	53.02	1,728,482	1,728,482	1.0E-03	32.60	815	1.0E-04	3.26	971	1,730,269
CT2 - Steady State - NG		3,482	8,492	29,569,682	53.02	1,728,482	1,728,482	1.0E-03	32.60	815	1.0E-04	3.26	971	1,730,269
CT1- Startup - NG		2,121	268	569,028	53.02	33,262	33,262	1.0E-03	0.63	16	1.0E-04	0.06	19	33,297
CT2- Startup - NG		2,121	268	569,028	53.02	33,262	33,262	1.0E-03	0.63	16	1.0E-04	0.06	19	33,297
CT1 -Duct Burner		475	8,492	4,033,457	53.02	235,774	235,774	1.0E-03	4.45	111	1.0E-04	0.44	133	236,018
CT2 -Duct Burner		475	8,492	4,033,457	53.02	235,774	235,774	1.0E-03	4.45	111	1.0E-04	0.44	133	236,018
														3,999,166
Auxiliary Equipment														
Auxiliary Boiler		105.00	8,760	919,800	53.02	53,766	53,766	1.0E-03	1.01	25	1.0E-04	0.10	30	53,822
Dew Point Heater		16.00	8,760	140,160	53.02	8,193.0	8,193.0	1.0E-03	0.155	3.9	1.0E-04	0.015	4.6	8,201
Emergency Generator		25.43	500	12,716	73.96	1,037	1,037	3.0E-03	0.04	1	6.0E-04	0.01	3	1,040
FWP		2.21	500	1,103	73.96	90	90	3.0E-03	0.00	0	6.0E-04	0.00	0	90
														63,154
									Total CO_2e Potential Annual Emissions					4,119,995

Potential CO_2e Emissions from Natural Gas Piping Components					
		Emissions Factor per Component (scf/hr) £	Annual Emissions (tpy)		
Component	Number of Components		CO_2 δ	CH_4 δ	CO_2e ϕ
Valve	400	0.027	0.05	1.93	48.2
Connectors	700	0.003	0.01	0.37	9.4
Relief valve	20	0.04	0.00	0.14	3.6
		Total	0.1	2.4	61

Potential CO_2e Emissions from Circuit Breakers							
	Quantity SF_6 Insulating Gas			Annual Emissions			
Number of Circuit Breakers	Per Component (lb)	Total (lb)	Annual Leak Rate (%)	SF_6 lb/yr	SF_6 tpy	CO_2e ¥ tpy	
4	1900	7600.00	0.50	38.0	0.019	433.2	
2	30	60.00	0.50	0.3	0.00015	3.4	
					Total	437	

Total Facility Potential CO_2e Emissions	
	Annual ¥ (tpy)
CTs	3,569,890
Duct Burner	486,951
Auxiliary Boiler	53,822
Dew Point Heater	8,201
Emergency Generator	1,040
FWP	90
NG piping	61
Circuit breakers	437
Total	4,120,493

Total Facility Potential CO_2 Emissions	
	Annual (tpy)
CTs	3,566,204
Duct Burner	486,449
Auxiliary Boiler	53,766
Dew Point Heater	8,193
Emergency Generator	1,037
FWP	90
NG piping	0.1
Total	4,115,738

Total Facility Potential CH_4 Emissions	
	Annual (tpy)
CTs	67
Duct Burner	9
Auxiliary Boiler	1.01
Dew Point Heater	0.15
Emergency Generator	0.04
FWP	0.00
NG piping	2.44
Total	80.1

Total Facility Potential N_2O Emissions	
	Annual (tpy)
CTs	7
Duct Burner	1
Auxiliary Boiler	0.10
Dew Point Heater	0.02
Emergency Generator	0.01
FWP	0.00
Total	7.8

*Maximum heat input across all loads and temperatures
‡Mandatory Reporting of Greenhouse Gases, Final Rule; Federal Register Vol. 74, No. 209, October 30, 2009, Table C-1 to Subpart C of Part 98.
§Mandatory Reporting of Greenhouse Gases, Final Rule; Federal Register Vol. 74, No. 209, October 30, 2009, Table C-2 to Subpart C of Part 98.
¥Based on global warming potential of 1 for CO_2, 25 for CH_4, 298 for N_2O, and 22,800 for SF_6.
£Based on 40 CFR 98, Table W-1a for Eastern United States.
ϕBased on natural gas composition of 98-percent CH_4 and 1-percent CO_2.

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Table B-17 Annual CO2 Emission Rate - GE 7FA.02

Annual CO_2 Emission Rate Derivation - GE Unit - Natural Gas				
	Parameter	Units	7FA	
Operating Mode	Annual Avg. Ambient Condition Basis	(°F)	59	mid temperature range for plant expected to run all year
	Min Load Definition	(% of Full Load)	30.0%	GE
	Heat Input	MMBtu/hr	7274.2	GE case 17; CT + DB (two Turbines)
	Full/Base Load Annual Avg.	(MW_{gross})	1060	GE
	Min Load Annual Avg.	(MW_{gross})	0	
	Full/Base Load Steady State Operation	(% of annual hours)	100%	assumption
	Min Load Steady State Operation	(% of annual hours)	0%	assumption
Startup - HOT	Start Time to 100% Load	(min)	30	C4GT (hot start)
		(MW/min)	29	
	Ramp Rate	(%/min)	1.67	= min load (%)/30 min
	Time in Load Ramp to Min Load	(min)	30	C4GT
	Start Time to Min Load	(min)	30	C4GT (hot start)
	Estimated Power Generated During Start	(MWh_{gross})	870	assumed 29MW/min; 29 MW/min * 30 min
	Starts per Year	(#)	400	assumption - based on Gas only scenario
	Total Time in Start	(min)	12,000	= 30 min x 400
	Total Power Generated in Start	(MWh_{gross})	348,080	power output during event x number of events
	Fuel Use Turning Gear to Min Load	(MMBtu)	480	C4GT (hot start)
	Start CO_2 Emissions to 100% Load	(lb/event)	--	
	Estimated Start CO_2 Emissions to Min Load	(lb/event)	56,106	=fuel used (MMBtu) x 53.02 kg/MMBtu x 2.2046 lb/kg
	Estimated Start CO_2 Emissions	(tons/yr)	11,221	=lb CO2/event x events/year x ton/2,000 lb
Startup - Warm	Start Time to 100% Load	(min)	50	C4GT (warm start)
		(MW/min)	-	
	Ramp Rate	(%/min)	1.00	= min load (%)/50 min
	Time in Load Ramp to Min Load	(min)	50	C4GT
	Start Time to Min Load	(min)	50	C4GT (warm start)
	Estimated Power Generated During Start	(MWh_{gross})	1450	assumed 29MW/min; 29 MW/min * 50 min
	Starts per Year	(#)	80	assumption - based on Gas only scenario
	Total Time in Start	(min)	4,000	= 50 min x 80
	Total Power Generated in Start	(MWh_{gross})	116,000	power output during event x number of events
	Fuel Use Turning Gear to Min Load	(MMBtu)	1163	C4GT(warm start)
	Start CO_2 Emissions to 100% Load	(lb/event)		
	Estimated Start CO_2 Emissions to Min Load	(lb/event)	135,941	=fuel used (MMBtu) x 53.02 kg/MMBtu x 2.2046 lb/kg
	Estimated Start CO_2 Emissions	(tons/yr)	5,438	=lb CO2/event x events/year x ton/2,000 lb
Startup - COLD	Start Time to 100% Load	(min)	60	C4GT (cold start)
		(MW/min)	-	
	Ramp Rate	(%/min)	0.83	= min load (%)/60 min
	Time in Load Ramp to Min Load	(min)	60	C4GT
	Start Time to Min Load	(min)	60	C4GT (cold start)
	Estimated Power Generated During Start	(MWh_{gross})	1740	assumed 29MW/min; 29 MW/min * 60 min
	Starts per Year	(#)	20	assumption - based on Gas only scenario (2 turbines)
	Total Time in Start	(min)	1,200	=60 min x 20
	Total Power Generated in Start	(MWh_{gross})	34,800	power output during event x number of events
	Fuel Use Turning Gear to Min Load	(MMBtu)	1,531	C4GT (cold start)
	Start CO_2 Emissions to 100% Load	(lb/event)		
	Estimated Start CO_2 Emissions to Min Load	(lb/event)	155,578	=fuel used (MMBtu) x 53.02 kg/MMBtu x 2.2046 lb/kg
	Estimated Start CO_2 Emissions	(tons/yr)	1,556	=lb CO2/event x events/year x ton/2,000 lb
Shutdown	Shutdown Time from 100% Load	(min)	30.0	C4GT
		(MW/min)	--	
	Shutdown Ramp Rate	(%/min)		
	Shutdown Time from Min Load	(min)	30.0	C4GT
	Time in Load Ramp from Min Load	(min)	--	
	Power Generated during Shutdown	(MWh_{gross})	870.00	assumed 29MW/min; 29 MW/min * 30 min
	Shutdowns per Year	(#)	500	assumption - based on Gas only scenario
	Total Time in Shutdown	(min)	15,000	=30 min x 500
	Total Power Generated in Shutdown	(MWh_{gross})	435,000	
	Fuel Use Min Load to Turning Gear	(MMBtu)	150	C4GT
	Shutdown CO_2 Emissions (from 100%)	(lb/event)	--	
	Estimated Shutdown CO_2 Emissions from Min Load	(lb/event)	40,911	=fuel used (MMBtu) x 53.02 kg/MMBtu x 2.2046 lb/kg
	Estimated Shutdown CO_2 Emissions	(tons/yr)	10,228	=lb CO2/event x events/year x ton/2,000 lb
Steady State (Balance of Hours)	Remaining Time in 8,760 hr Period	(min)	1,019,000	= ((8760 hr/yr * 60 min/hr) * 2 turbines) - (Minutes Hot start +Minutes Warm Start+ Minutes Cold Start+Minutes Shutdown)
		(hrs)	16,983	= steady state time (min) x (hr/60 min)
	Generation at Full/Base Load	(MWh_{gross})	18,002,888	= Base Load (MW) x Base Load % x Steady State (hr)
	Generation at Min Load	(MWh_{gross})	0	
	New & Clean Gross Heat Rate at Full/Base Load	(Btu/kWh, HHV)	6,862	
	New & Clean Gross Heat Rate at Min Load	(Btu/kWh, HHV)		
	Assumed CO_2 Intensity	(lb/MMBtu)	116.9	=53.02 kg/MMBtu x 2.2046 lb/kg
	New & Clean CO_2 Emission Rate at Full/Base Load	(lb/MWh)	802	= Base Load (MMBtu/kWh) x 116.9 lb CO2/MMBtu
	New & Clean CO_2 Emission Rate at Min Load	(lb/MWh)	0	= Min Load (MMBtu/kWh) x 116.9 lb CO2/MMBtu
	New & Clean Blended Load Steady State Emissions	(tons/yr)	7,230,175	= [Base (MWhs) x (lb/mWh) + Min (MWhr) x (lb/MWh)] x (ton/2,000 lb)
Annual (8,760 hrs) Average Emission Rate Basis	New and Clean	(tons/yr)	7,248,617	Steady State CO2 + Startup CO2 + Shutdown CO2
		(lb/hr avg)	1,654,955	= CO2 (ton/yr) x (yr/8,760 hr) x (2,000 lb/ton)
		(MWhs)	18,936,153	MWh for steady state, startup, and shutdown
		(lb/MWh$_{gross}$)	766	= CO2 (ton/yr) x (2,000 lb/ton) / (Annual MWh)
	CT/HRSG efficiency losses due to degradation prior to CT/HRSG overhaul	%	6.0	EPA
	auxiliary plant equipment losses due to degradation over time	%	3.0	EPA
	potential difference between the calculated plant heat rate and the actual tested plant heat rate.	%	3.3	EPA
	Marginal	(tons/yr)	8,140,197	New and Clean tons/yr * 1.06*1.03*1.033
		(lb/hr avg)	1,858,492	= margined CO2 (ton/yr) x (yr/8,760 hr) x (2,000 lb/ton)
		(MWhs)	18,936,153	MWh for steady state, startup, and shutdown
		(lb/MWh$_{gross}$)	860	= margined CO2 (ton/yr) x (2,000 lb/ton) / (Annual MWh)

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Table B-18 VOC Emissions from Fuel Oil Storage Tanks - GE 7FA.02

Storage Tank	Capacity gal	Annual Turnovers	Annual Throughput gal/yr	Annual Emissions lb/yr*	Tons/yr
Emergency Generator	3,000	29	87,000	2.27	0.00114
Fire Water Pump	400	22	8,800	0.26	0.00013
Total					0.00127

Calculated using EPA's Tanks 4.09d program

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APPENDIX C

CONTROL TECHNOLOGY REVIEW FROM EPA's RBLC

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Table C-1. RBLC Database NOx [illegible] Results - Combined Cycle [illegible]

RBLC ID	FACILITY NAME	CORPORATE/COMPANY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BASIS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MW	[illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MMBTU/H	[illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MMBTU/H	[illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MMBTU/H	[illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MMBTU/H	[illegible]	[illegible]		[illegible]
[illegible]	PLANT	[illegible]	WY	[illegible]	[illegible]	[illegible]	Auxiliary Boiler	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	PLANT	[illegible]	WY	[illegible]	[illegible]	[illegible]	Emergency Generator	[illegible]	HP		[illegible]		BACT-PSD
[illegible]	PLANT	[illegible]	WY	[illegible]	[illegible]	[illegible]	Fire Pump Engine	[illegible]	HP		[illegible]		BACT-PSD
[illegible]	PLANT	[illegible]	WY	[illegible]	[illegible]	[illegible]	Combined Cycle Turbine/Duct Burner	[illegible]	[illegible]	SCR & [illegible]	[illegible]	[illegible]	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Simple Cycle Turbine [illegible]	40	MW	SCR	[illegible]	PPMV AT 15% O2	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	[illegible] Cycle Turbine [illegible]	40	MW	SCR	[illegible]	PPMV AT 15% O2	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	[illegible] Cycle Turbine [illegible]	40	MW	SCR	[illegible]	PPMV AT 15% O2	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Simple Cycle Turbine [illegible]	40	MW	SCR	[illegible]	PPMV AT 15% O2	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Simple Cycle Turbine [illegible]	40	MW	SCR	[illegible]	PPMV AT 15% O2	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Inlet Air Heater [illegible]	[illegible]	MMBTU/H	Ultra Low NOx Burners	[illegible]	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Diesel Emergency Generator [illegible]	[illegible]	hp	EPA Tier 2 rated	[illegible]		BACT-PSD
[illegible]	[illegible]	[illegible]	WY	[illegible]	[illegible]	[illegible]	Diesel Fire Pump Engine [illegible]	[illegible]	hp	EPA Tier 2 rated	[illegible]		BACT-PSD

Source: EPA RBLC, accessed May 2016

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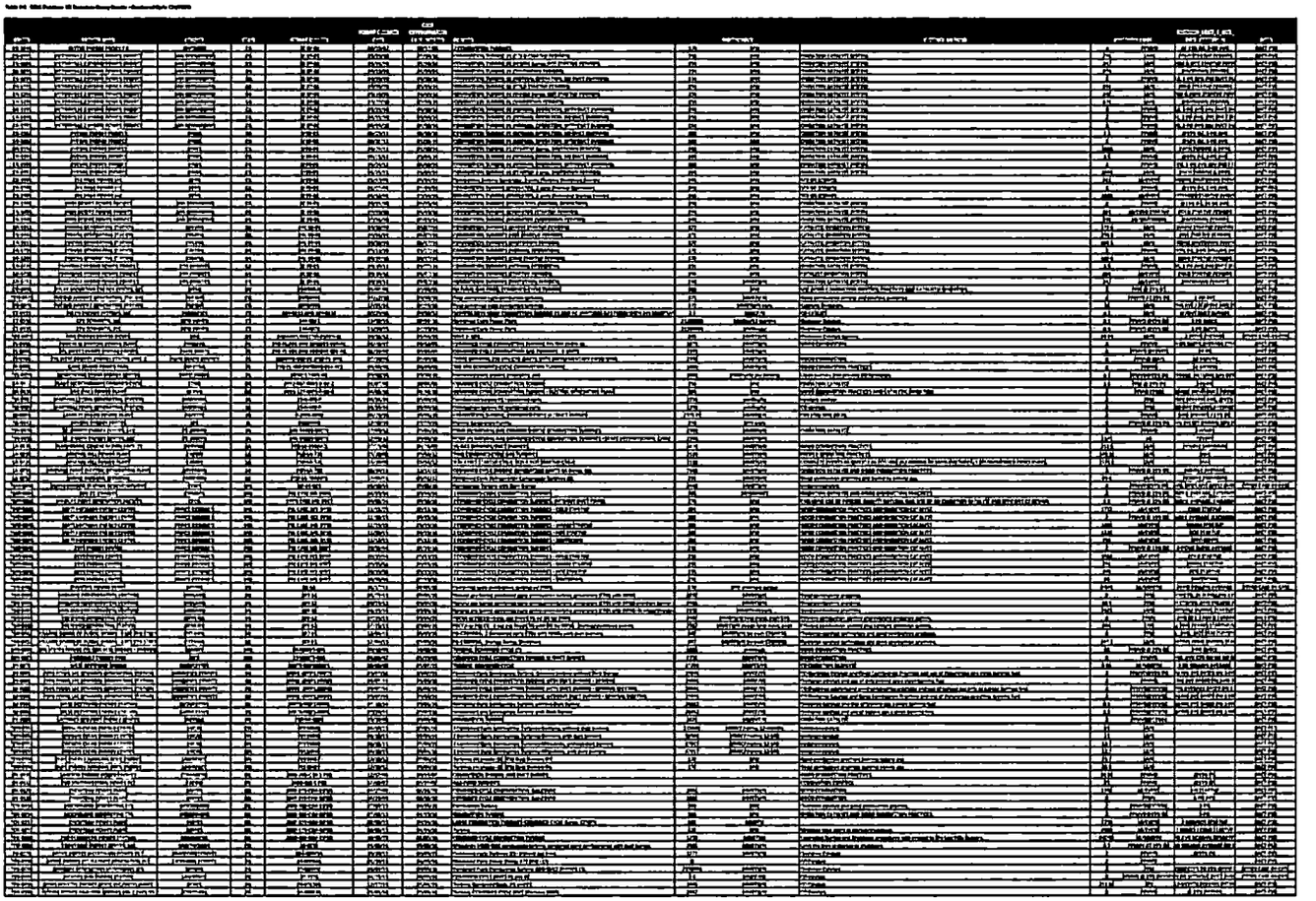

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[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
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Table C-4. RBLC Summary PM Emission Query Results - Combined Cycle CTs/HRSG

RBLCID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BASIS
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	GE LM6000PF-(3) Turbines (4)	59900	hp ISO	Good Combustion Practices	0.0066	LB/MMBTU	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	GE LM6000PF-(3) Turbines (4)	59900	hp ISO	Good Combustion Practices	0.0066	LB/MMBTU	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	GE LM6000PF-(3) Turbines (4)	59900	hp ISO	Good Combustion Practices	0.0066	LB/MMBTU	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Duct Burners (4)	140	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Duct Burners (4)	140	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Duct Burners (4)	140	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Caterpillar 3215C Black Start Generator (1)	1500	kW-e	Good Combustion Practices	0.03	G/HP-H	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Caterpillar 3215C Black Start Generator (1)	1500	kW-e	Good Combustion Practices	0.03	G/HP-H	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Caterpillar 3215C Black Start Generator (1)	1500	kW-e	Good Combustion Practices	0.03	G/HP-H	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Sigma Thermal Auxiliary Heater (1)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Sigma Thermal Auxiliary Heater (1)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/12	Sigma Thermal Auxiliary Heater (1)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0076	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/20/10	01/09/14	Fuel Combustion	59900	HP	Combustion Turbines EU IDs 1-8 use good combustion practices involve increasing the ...	0.0066	LB/MMBTU	BACT-PSD
AK-0076	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/20/10	01/09/14	Fuel Combustion	140	MMBTU/H	Combustion Turbines EU IDs 9-12 use good combustion practices involve increasing the ...	7.6	LB/MMBTU	BACT-PSD
AK-0076	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/20/10	01/09/14	Fuel Combustion	12.5	MMBTU/H	Combustion Turbines EU IDs 13-15 uses good combustion practices involve increasing the ...	7.6	LB/MMBTU	BACT-PSD
AK-0076	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/20/10	01/09/14	Fuel Combustion	1500	kW-e	Black Start diesel fired engine EU 17 shall be equipped with turbo charging and after co...	0.04	G/HP-H	BACT-PSD
CA-1144	BLYTHE ENERGY PROJECT II	BLYTHE	CA	SE 02-01	04/25/07	05/17/08	FIRE PUMP	303	HP		0.1	LB/H	BACT-PSD
CA-1144	BLYTHE ENERGY PROJECT II	BLYTHE	CA	SE 02-01	04/25/07	05/17/08	2 COMBUSTION TURBINES	130	MW	USE PUBLIC UTILITY COMMISSION QUALITY NATURAL GAS W/ SULFUR CONTENT ...	6	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, NO DU...	154	MW	PUC QUALITY NATURAL GAS	12	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COMBUSTION TURBINE #2 (NORMAL OPERATION, NO DU...	154	MW	PUC QUALITY NATURAL GAS	12	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	154	MW	PUC QUALITY NATURAL GAS	18	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COMBUSTION TURBINE #2 (NORMAL OPERATION, WITH D...	154	MW	PUC QUALITY NATURAL GAS	18	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR, USE PUC QUALITY NATURAL GAS	0.2	GRAINS PER 100 DSCF	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/29/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR	0.2	GRAINS PER 100 DSCF	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/29/14	AUXILIARY BOILER	35	MMBTU/H	OPERATIONAL RESTRICTION OF 500 HR/YR, USE PUC QUALITY NATURAL GAS	0.2	GRAINS PER 100 DSCF	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/29/14	AUXILIARY BOILER	35	MMBTU/H	OPERATIONAL RESTRICTION OF 500 HR/YR	0.2	GRAINS PER 100 DSCF	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	EMERGENCY ENGINE	2000	KW	OPERATIONAL RESTRICTION OF 50 HR/YR, USE OF ULTRA LOW SULFUR FUEL NOT TO E...	0.2	G/KW-H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	EMERGENCY ENGINE	2000	KW	OPERATIONAL RESTRICTION OF 50 HR/YR, USE OF ULTRA LOW SULFUR FUEL NOT TO E...	0.2	G/KW-H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	EMERGENCY FIREWATER PUMP ENGINE	135	KW	OPERATIONAL RESTRICTION OF 50 HR/YR, (OR MAY) AS REQUIRED FOR FIRE SAFETY TE...	0.2	G/KW-H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	EMERGENCY FIREWATER PUMP ENGINE	135	KW	OPERATIONAL RESTRICTION OF 50 HR/YR, (OR MAY) AS REQUIRED FOR FIRE SAFETY TE...	0.2	G/KW-H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/30/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, NO DU...	154	MW	PUC QUALITY NATURAL GAS	12	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/30/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, NO DU...	154	MW	PUC QUALITY NATURAL GAS	12	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/30/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	154	MW	USE PUC QUALITY NATURAL GAS	18	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	154	MW	PUC QUALITY NATURAL GAS	18	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/28/14	COOLING TOWER	130000	GAL/MIN		1.6	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/30/14	COOLING TOWER	130000	GAL/MIN		1.6	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/30/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, NO DU...	180	MW	USE PUC QUALITY NATURAL GAS	8.91	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/23/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, NO DU...	180	MW	USE PUC QUALITY NATURAL GAS	8.91	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/23/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	180	MW	USE PUC QUALITY NATURAL GAS	11.78	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/23/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	180	MW	USE PUC QUALITY NATURAL GAS	11.78	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/30/14	COMBUSTION TURBINE #2 (NORMAL OPERATION, NO DU...	180	MW	USE PUC QUALITY NATURAL GAS	8.91	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/30/14	COMBUSTION TURBINE #2 (NORMAL OPERATION, NO DU...	180	MW	USE PUC QUALITY NATURAL GAS	8.91	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/23/14	COMBUSTION TURBINE #1 (NORMAL OPERATION, WITH D...	180	MW	USE PUC QUALITY NATURAL GAS	11.78	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/30/14	COMBUSTION TURBINE #2 (NORMAL OPERATION, WITH D...	180	MW	USE PUC QUALITY NATURAL GAS	11.78	LB/H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/23/14	AUXILIARY BOILER	37.4	MMBTU/H	USE PUC QUALITY NATURAL GAS, OPERATIONAL LIMIT OF 46,675 MMBTU/YR	0.0034	GR/DSCF	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/29/14	AUXILIARY BOILER	37.4	MMBTU/H	USE PUC QUALITY NATURAL GAS, OPERATIONAL LIMIT OF 46,675 MMBTU/YR	0.0034	GR/DSCF	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/29/14	EMERGENCY IC ENGINE	550	KW	USE PUC QUALITY PIPELINE NATURAL GAS	0.34	G/HP-H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/29/14	EMERGENCY IC ENGINE	550	KW	USE PUC QUALITY PIPELINE NATURAL GAS	0.34	G/HP-H	BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/29/14	EMERGENCY FIREWATER PUMP ENGINE	288	HP	USE ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD FUEL SULFUR, OPERATIONAL	0		BACT-PSD
CA-1192	AVENAL ENERGY PROJECT	KINGS	CA	SJ 08-01	06/21/11	01/29/14	EMERGENCY FIREWATER PUMP ENGINE	288	HP	USE ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD FUEL SULFUR, OPERATIONAL	0		BACT-PSD
CA-1178	MORRO BAY POWER PLANT	SAN LUIS OBISPO	CA	SLO 2005-01	09/25/08	01/14/14	COMBUSTION TURBINE GENERATOR	180	MW	USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT BURNERS NO MORE THAN 4000	11	LB/H	BACT-PSD
CA-1178	MORRO BAY POWER PLANT	SAN LUIS OBISPO	CA	SLO 2005-01	09/25/08	01/14/14	COMBUSTION TURBINE GENERATOR	180	MW	USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT BURNERS NO MORE THAN 4000	11	LB/H	BACT-PSD
CA-1178	MORRO BAY POWER PLANT	SAN LUIS OBISPO	CA	SLO 2005-01	09/25/08	01/14/14	COMBUSTION TURBINE GENERATOR	180	MW	USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT BURNERS NO MORE THAN 4000	11	LB/H	BACT-PSD
CA-1178	MORRO BAY POWER PLANT	SAN LUIS OBISPO	CA	SLO 2005-01	09/25/08	01/14/14	COMBUSTION TURBINE GENERATOR	180	MW	USE PIPELINE QUALITY NATURAL GAS, OPERATE DUCT BURNERS NO MORE THAN 4000	11	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (WARM STARTUP PERIOD)	172	MW	USE NATURAL GAS	13	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (WARM STARTUP PERIOD)	172	MW	USE NATURAL GAS	13	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (HOT STARTUP PERIOD)	172	MW	USE NATURAL GAS	12	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (HOT STARTUP PERIOD)	172	MW	USE NATURAL GAS	12	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (SHUTDOWN PERIOD)	172	MW	USE NATURAL GAS	6	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (SHUTDOWN PERIOD)	172	MW	USE NATURAL GAS	6	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	WATER BATH HEATER	10	MMBTU/H		0.029	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	WATER BATH HEATER	10	MMBTU/H		0.029	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	WET SURFACE AIR COOLER	1000	GAL/MIN		0.34	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (NORMAL OPERATION)	172	MW	USE NATURAL GAS	11.5	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (NORMAL OPERATION)	172	MW	USE NATURAL GAS	11.5	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (COLD STARTUP PERIOD)	172	MW	USE NATURAL GAS	12	LB/H	BACT-PSD
CA-1211	COLUSA GENERATING STATION	COLUSA	CA	SAC 06-01	09/11/10	01/27/14	COMBUSTION TURBINES (COLD STARTUP PERIOD)	172	MW	USE NATURAL GAS	12	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110	MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110	MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110	MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COMBUSTION TURBINES (NORMAL OPERATION)	154	MW	USE PUC QUALITY NATURAL GAS	0.0048	LB/MMBTU	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COMBUSTION TURBINES (NORMAL OPERATION)	154	MW	USE PUC QUALITY NATURAL GAS	0.0048	LB/MMBTU	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COMBUSTION TURBINES (NORMAL OPERATION)	154	MW	USE PUC QUALITY NATURAL GAS	0.0048	LB/MMBTU	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	2683	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	2683	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	2683	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	182	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	182	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	EMERGENCY IC ENGINE	182	HP	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY HEATER	40	MMBTU/H	USE PUC QUALITY PIPELINE NATURAL GAS	0.3	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY HEATER	40	MMBTU/H	USE PUC QUALITY PIPELINE NATURAL GAS	0.3	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY HEATER	40	MMBTU/H	USE PUC QUALITY PIPELINE NATURAL GAS	0.3	LB/H	BACT-PSD

Table C-4. RBLC Database PM Emissions Query Results - Combined Cycle CTs/HRSG

RBLCID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		CASE
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COOLING TOWER	130000	gpm CIRCULATION RATE		1.6	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COOLING TOWER	130000	gpm CIRCULATION RATE		1.6	LB/H	BACT-PSD
CA-1212	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	COOLING TOWER	130000	gpm CIRCULATION RATE		1.6	LB/H	BACT-PSD
CO-0074	ROCKY MOUNTAIN ENERGY CENTER, LLC	WELD	CO	01WE0524	05/02/06	09/09/08	NATURAL GAS FIRED, COMBINED CYCLE TURBINE	300	MW	NATURAL GAS QUALITY FUEL ONLY AND GOOD COMBUSTION CONTROL PRACTICES	0.0074	LB/MMBTU	BACT-PSD
*CO-0078	PUEBLO AIRPORT GENERATING STATION	PUEBLO	CO	09PB0791	07/22/10	03/23/14	Three simple cycle combustion turbines	799.7	MMBTU/H	Use of pipeline quality natural gas and good combustor design.	4.6	LB/H	BACT-PSD
*CO-0078	PUEBLO AIRPORT GENERATING STATION	PUEBLO	CO	09PB0791	07/22/10	03/23/14	Three simple cycle combustion turbines	799.7	MMBTU/H	Use of pipeline quality natural gas and good combustor design.	4.6	LB/H	BACT-PSD
*CO-0078	PUEBLO AIRPORT GENERATING STATION	PUEBLO	CO	09PB0791	07/22/10	03/23/14	Four combined cycle combustion turbines	473	MMBTU/H	Use of pipeline quality natural gas and good combustor design.	4.8	LB/H	BACT-PSD
*CO-0078	PUEBLO AIRPORT GENERATING STATION	PUEBLO	CO	09PB0791	07/22/10	03/23/14	Four combined cycle combustion turbines	473	MMBTU/H	Use of pipeline quality natural gas and good combustor design.	4.8	LB/H	BACT-PSD
CT-0151	KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX	CT	104-0131 AND 104-0132	02/25/08	04/30/12	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2	2.1	MMFT3/H		11	LB/H	BACT-PSD
CT-0151	KLEEN ENERGY SYSTEMS, LLC	MIDDLESEX	CT	104-0131 AND 104-0133	02/25/08	04/30/12	SIEMENS SGT6-5000F COMBUSTION TURBINE #1 AND #2	15111	GAL/H		17	LB/H	BACT-PSD
CT-0157	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0023	11/30/15	02/29/16	Combined Cycle Power Plant	21300000	MMbtu/12 months		9.71	LB/H	BACT-PSD
CT-0157	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0023	11/30/15	02/29/16	Combined Cycle Power Plant	2770000	gal/ 12 months		41.6	LB/H	BACT-PSD
CT-0158	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0024	11/30/15	02/29/16	Combined Cycle Power Plant	21300000	MMBtu/yr		9.71	LB/H	BACT-PSD
CT-0158	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0024	11/30/15	02/29/16	Combined Cycle Power Plant	1770000	gal/ 12 months		41.6	LB/H	BACT-PSD
DE-0024	GARRISON ENERGY CENTER	KENT COUNTY	DE	APC-2013/0298	01/30/13	01/25/16	Unit 1	2260	million BTUs	Fuel Usage Restrictions to natural gas and low sulfur distillate oil	120.4	TPY	BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	TWO 20-CELL MECHANICAL DRAFT	150000	GAL/MIN		0		BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	COMBINED CYCLE COMBUSTION GAS TURBINES - 6 UNITS	2333	MMBTU/H		2	GR/100 SCF GAS	BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	TWO 99.8 MMBTU/H GAS-FIRED AUXILIARY BOILERS	99.8	MMBTU/H		2	GR/100 SCF GAS	BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	TWO GAS-FUELED 10 MMBTU/H PROCESS HEATERS	10	MMBTU/H		2	GR/100 SCF GAS	BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	FOUR 2250 KW LIQUID FUEL EMERGENCY GENERATORS				0.4	G/HP-H	BACT-PSD
FL-0286	FPL WEST COUNTY ENERGY CENTER	PALM BEACH	FL	PSD-FL-354 AND 0990646-001-AC	01/10/07	03/31/08	ONE EMERGENCY DIESEL FIRED PUMP AND 500 GALLON STORAGE TANK				0.4	G/HP-H	BACT-PSD
FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	PALM BEACH COUNTY	FL	0990646-002-AC (PSD-FL-396)	07/30/08	03/03/11	THREE NOMINAL 250 MW CTG (EACH) WITH SUPPLEMENTARY	2333	MMBTU/H		2	GR/100 SCF GAS	BACT-PSD
FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	PALM BEACH COUNTY	FL	0990646-002-AC (PSD-FL-396)	07/30/08	03/03/11	TWO NOMINAL 10 MMBTU/H NATURAL GAS-FIRED PROCESS	10	MMBTU/H		2	GR/100 SCF	BACT-PSD
FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	PALM BEACH COUNTY	FL	0990646-002-AC (PSD-FL-396)	07/30/08	03/03/11	ONE 20-CELL MECHANICAL DRAFT COOLING TOWER			THE PERMITTEE SHALL CERTIFY THAT THE COOLING TOWER WAS CONSTRUCTED TO AC	0.0005	%	BACT-PSD
FL-0303	FPL WEST COUNTY ENERGY CENTER UNIT 3	PALM BEACH COUNTY	FL	0990646-002-AC (PSD-FL-396)	07/30/08	03/03/11	TWO NOMINAL 2,250 KW (~21 MMBTU/H) EMERGENCY	21	MMBTU/H		0.1	G/HP-H	BACT-PSD
FL-0304	CANE ISLAND POWER PARK	OSCEOLA	FL	PSD-FL-400 (0970043-014-AC)	09/08/08	04/22/09	AN EIGHT CELL MECHANICAL COOLING TOWER				0		BACT-PSD
FL-0304	CANE ISLAND POWER PARK	OSCEOLA	FL	PSD-FL-400 (0970043-014-AC)	09/08/08	04/22/09	300 MW COMBINED CYCLE COMBUSTION TURBINE	1860	MMBTU/H	FUEL SPECIFICATIONS: 2 GR S/100 SCF OF GAS	2	GR S/100 SCF GAS	BACT-PSD
FL-0304	CANE ISLAND POWER PARK	OSCEOLA	FL	PSD-FL-400 (0970043-014-AC)	09/08/08	04/22/09	EMERGENCY FIRED PUMP, 2 ULSD OIL STORAGE TANK				0.15	G/HP-H	BACT-PSD
FL-0304	CANE ISLAND POWER PARK	OSCEOLA	FL	PSD-FL-400 (0970043-014-AC)	09/08/08	04/22/09	DIESEL ELECTRIC GENERATOR FOR SAFE SHUTDOWN OF UNIT 4 AND ULSD FU STORAGE TANK				0.15	G/HP-H	BACT-PSD
FL-0317	[illegible] POWER STATION	[illegible]	FL	1050233-030-AC	10/14/13	11/03/14	Combined cycle power block (4 on 1)	1100	MW	good practices	2	GR S/100 SCF GAS	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Combined-cycle electric generating unit	3096	MMBtu/hr per turbine	Use of clean fuels	2	GRAIN S/100 SCF GAS	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Combined-cycle electric generating unit	3096	MMBtu/hr per turbine	Use of clean fuels	2	GR S/100 SCF GAS	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Combined-cycle electric generating unit	3096	MMBtu/hr per turbine	Use of clean fuels	2	GR S/100 SCF GAS	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Auxiliary Boiler, 99.8 MMBtu/hr	99.8	MMBtu/hr	Use of clean fuels	10	% OPACITY	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Mechanical draft cooling tower	465415	gallons water/hr	Must have certified drift rate no more than 0.0005%	0		BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	Three 3300-kW ULSD emergency generators	0		Use of clean fuel	0.2	G / KW-HR	BACT-PSD
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	03/09/16	08/26/16	One 422-hp emergency fire pump engine	0		Use of clean fuel	0.2	G / KW-HR	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/15	Combustion turbine #1 - combined cycle	2258	mmBtu/hr		0.01	LB/MMBTU	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/10	dew point heater	13.32	mmBtu/hr		0.008	LB/MMBTU	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/15	cooling tower	180000	gallons/minute	drift eliminator	1.3	LB/H	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/15	Combustion turbine #2 - combined cycle	2258	mmBtu/hr		0.01	LB/MMBTU	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/16	auxiliary boiler	60.1	mmBtu/hr		0.008	LB/MMBTU	BACT-PSD
ID-0018	LANGLEY GULCH POWER PLANT	PAYETTE	ID	P-2009.0092	06/25/10	10/05/10	COMBUSTION TURBINE, COMBINED CYCLE W/ DUCT BURNER	2375.28	MMBTU/H	GOOD COMBUSTION PRACTICES (GCP)	0		BACT-PSD
ID-0018	LANGLEY GULCH POWER PLANT	PAYETTE	ID	P-2009.0092	06/25/10	10/05/10	EMERGENCY GENERATOR ENGINE	750	KW	GOOD COMBUSTION PRACTICES (GCP)	0.2	G/KW-H	BACT-PSD
ID-0018	LANGLEY GULCH POWER PLANT	PAYETTE	ID	P-2009.0092	06/25/10	10/05/10	FIRE PUMP ENGINE	235	KW	GOOD COMBUSTION PRACTICES (GCP)	0.2	G/KW-H	BACT-PSD
ID-0018	LANGLEY GULCH POWER PLANT	PAYETTE	ID	P-2009.0092	06/25/10	10/05/10	COOLING TOWER	81300	GAL/MIN	GOOD OPERATING PRACTICES	0		BACT-PSD
ID-0018	LANGLEY GULCH POWER PLANT	PAYETTE	ID	P-2009.0092	06/25/10	10/05/10	BULK CHEMICAL STORAGE AND LOADING (5)	0		GOOD OPERATING PRACTICES	0		BACT-PSD
*IL-0117	NELSON ENERGY CENTER	LEE	IL	16030004	12/28/16	03/27/16	Electric Generation Facility	230	MW each		0.017	LB/MMBTU	BACT-PSD
*IL-0117	NELSON ENERGY CENTER	LEE	IL	16030004	12/28/16	03/27/16	Electric Generation Facility	230	MW each		0.005	LB/MMBTU	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION	2300	MMBTU/H	GOOD COMBUSTION PRACTICE AND FUEL SPECIFICATION	11	LB/H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION	2300	MMBTU/H	GOOD COMBUSTION PRACTICE AND FUEL SPECIFICATION	11	LB/H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION	2300	MMBTU/H	GOOD COMBUSTION PRACTICE AND FUEL SPECIFICATION	11	LB/H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) NATURAL GAS AUXILIARY BOILERS	80	MMBTU/H	GOOD COMBUSTION PRACTICES AND FUEL SPECIFICATIONS	0.0075	LB/MMBTU	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) NATURAL GAS AUXILIARY BOILERS	80	MMBTU/H	GOOD COMBUSTION PRACTICES AND FUEL SPECIFICATIONS	0.0075	LB/MMBTU	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) NATURAL GAS AUXILIARY BOILERS	80	MMBTU/H	GOOD COMBUSTION PRACTICES AND FUEL SPECIFICATIONS	0.0075	LB/MMBTU	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) FIREWATER PUMP DIESEL ENGINES	371	BHP, EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) FIREWATER PUMP DIESEL ENGINES	371	BHP, EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) FIREWATER PUMP DIESEL ENGINES	371	BHP, EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) EMERGENCY DIESEL GENERATORS	3006	HP EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) EMERGENCY DIESEL GENERATORS	3006	HP EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) EMERGENCY DIESEL GENERATORS	3006	HP EACH	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	EMERGENCY DIESEL GENERATOR	3012	HP	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	EMERGENCY DIESEL GENERATOR	3012	HP	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	EMERGENCY DIESEL GENERATOR	3012	HP	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) COOLING TOWERS	170000	GAL/MIN	DRIFT ELIMINATOR	0.0005	% DRIFT LOSS	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) COOLING TOWERS	170000	GAL/MIN	DRIFT ELIMINATOR	0.0005	% DRIFT LOSS	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TWO (2) COOLING TOWERS	170000	GAL/MIN	DRIFT ELIMINATOR	0.0005	% DRIFT LOSS	BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TURBINE LUBE OIL DEMISTER VENTS	0		GOOD DESIGN AND OPERATING PRACTICES	0		BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TURBINE LUBE OIL DEMISTER VENTS	0		GOOD DESIGN AND OPERATING PRACTICES	0		BACT-PSD
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00579	12/03/12	05/04/16	TURBINE LUBE OIL DEMISTER VENTS	0		GOOD DESIGN AND OPERATING PRACTICES	0		BACT-PSD
LA-0256	PLAQUEMINE COGENERATION FACILITY	IBERVILLE	LA	PSD-LA-659(M2)	07/23/09	04/29/09	(4) GAS TURBINES/DUCT BURNERS	2178	MMBTU/H	USE OF CLEAN BURNING FUELS	11.8	LB/H	BACT-PSD
LA-0256	PLAQUEMINE COGENERATION FACILITY	IBERVILLE	LA	PSD-LA-659(M2)	07/23/09	04/29/09	COOLING TOWER	0.001	% DRIFT RATE	GOOD OPERATING PRACTICES	1.4	LB/H	BACT-PSD
LA-0224	ARSENAL HILL POWER PLANT	CADDO	LA	PSD-LA-726	03/20/08	03/31/12	TWO COMBINED CYCLE GAS TURBINES	2110	MMBTU/H	GOOD COMBUSTION DESIGN/ PROPER OPERATING PRACTICES/ PIPELINE QUALITY NAT	24.21	LB/H	BACT-PSD
LA-0224	ARSENAL HILL POWER PLANT	CADDO	LA	PSD-LA-726	03/20/08	03/31/12	COOLING TOWER	140000	GAL/MIN	USE OF MIST ELIMINATORS	1.4	LB/H	BACT-PSD
LA-0224	ARSENAL HILL POWER PLANT	CADDO	LA	PSD-LA-726	03/20/08	03/31/12	OFF DIESEL FIRE PUMP	330	HP	USE OF LOW SULFUR FUELS, LIMITING OPERATING HOURS AND PROPER ENGINE MAIN	0.66	LB/H	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	COMBINED CYCLE TURBINE GENERATORS (UNITS 6A & 6B)	7146	MMBTU/H	COMBUSTION PRACTICES	24.71	LB/H	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	COMBINED CYCLE TURBINE GENERATORS (UNITS 6A & 6B)	7146	MMBTU/H	COMBUSTION PRACTICES	24.71	LB/H	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	AUXILIARY BOILER (AUX-1)	338	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	7.6	LB/MMSCF	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	AUXILIARY BOILER (AUX-1)	338	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	7.6	LB/MMSCF	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	CHILLER COOLING TOWER (CHILL CT)	12000	GAL/MIN	HIGH EFFICIENCY MIST ELIMINATOR	0.001	PERCENT DRIFT	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	CHILLER COOLING TOWER (CHILL CT)	12000	GAL/MIN	HIGH EFFICIENCY MIST ELIMINATOR	0.001	PERCENT DRIFT	BACT-PSD
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/12/11	UNIT 6 COOLING TOWER	111947	GAL/MIN	HIGH EFFICIENCY MIST ELIMINATOR	0.0005	PERCENT DRIFT	BACT-PSD

Table C-4. RBLC Database PM Emission Query Results - Combined Cycle CTs/HRSG

RBLC ID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE OF DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROLS METHOD	EMISSION LIMIT		BASIS
LA-0254	NINE MILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/27/11	UNIT 6 COOLING TOWER	153047	GAL/MIN	HIGH EFFICIENCY MIST ELIMINATOR	0.0005	% PERCENT DRIFT	BACT-PSD
LA-0254	NINE MILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/27/11	EMERGENCY DIESEL GENERATOR	1250	HP	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
LA-0254	NINE MILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/27/11	EMERGENCY DIESEL GENERATOR	1250	HP	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
LA-0254	NINE MILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/27/11	EMERGENCY FIRE PUMP	350	HP	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
LA-0254	NINE MILE POINT ELECTRIC GENERATING PLANT	JEFFERSON	LA	PSD-LA-752	08/16/11	12/27/11	EMERGENCY FIRE PUMP	350	HP	ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
LA-0256	COGENERATION PLANT	ASCENSION	LA	PSD-LA-754	12/06/11	04/05/13	COGENERATION TRAINS 1-3 (1-25, 2-30, 3-30)	475	MMBTU/H	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES	2.72	LB/H	BACT-PSD
LA-0256	COGENERATION PLANT	ASCENSION	LA	PSD-LA-754	12/06/11	04/05/13	COGENERATION TRAINS 1-3 (1-25, 2-30, 3-30)	475	MMBTU/H	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES	2.72	LB/H	BACT-PSD
LA-0256	COGENERATION PLANT	ASCENSION	LA	PSD-LA-754	12/06/11	04/05/13	EMERGENCY GENERATOR	1818	HP	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES	0.01	LB/H	BACT-PSD
LA-0256	COGENERATION PLANT	ASCENSION	LA	PSD-LA-754	12/06/11	04/05/13	EMERGENCY GENERATOR	1818	HP	USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES	0.01	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Generator Engines (2)	3012	hp	fueled by natural gas	0.71	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Simple Cycle Refrigeration Compressor Turbines (24)	286	MMBTU/H	Good combustion practices and fueled by natural gas	2.06	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Combined Cycle Refrigeration Compressor Turbines (6)	286	MMBTU/H	Good combustion practices and fueled by natural gas	2.06	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Simple Cycle Generation Turbines (2)	286	MMBTU/H	Good combustion practices and fueled by natural gas	2.06	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Marine Flare	1590	MMBTU/H	proper plant operations and maintain the presence of the flame when the gas is routed	14.82	LB/H	BACT-PSD
LA-0257	SABINE PASS LNG TERMINAL	CAMERON	LA	PSD-LA-703(M3)	12/06/11	03/21/13	Wet/Dry Gas Flares (4)	0.26	MMBTU/H	proper plant operations and maintain the presence of the flame when the gas is routed	0.01	LB/H	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Combustion Turbine with Duct Burner	2449	MMBTU/H		0.0033	LB/MMBTU	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Combustion Turbine with Duct Burner	2449	MMBTU/H		0.0052	LB/MMBTU	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Auxiliary Boiler	80	MMBTU/H		0.005	LB/MMBTU	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Auxiliary Boiler	80	MMBTU/H		0.005	LB/MMBTU	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Emergency Engine/Generator	7.4	MMBTU/H		0.15	GM/BHP-H	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Emergency Engine/Generator	7.4	MMBTU/H		0.15	GM/BHP-H	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Fire Pump Engine	2.7	MMBTU/H		0.15	GM/BHP-H	BACT-PSD
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-12-022	01/30/14	05/05/16	Fire Pump Engine	2.7	MMBTU/H		0.15	GM/BHP-H	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	2 COMBINED-CYCLE COMBUSTION TURBINES	725	MEGAWATT	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	0.007	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	2 COMBINED-CYCLE COMBUSTION TURBINES	725	MEGAWATT	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	0.011	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	AUXILIARY BOILER	93	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.005	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	AUXILIARY BOILER	93	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.005	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	EMERGENCY GENERATOR	1500	KW	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	EMERGENCY GENERATOR	1500	KW	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	300	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	300	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	FUEL GAS HEATER	9.5	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.007	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/24/16	FUEL GAS HEATER	9.5	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.007	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT	1000	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	23.8	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT	1000	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	36	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT	1000	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	16	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITHOUT D	720	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	15	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITHOUT D	270	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	21.1	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	2 COMBINED CYCLE COMBUSTION TURBINES, WITHOUT D	270	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND EFFICIENT TURBINE DESIGN	21.1	LB/H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	AUXILIARY BOILER	45	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	AUXILIARY BOILER	45	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	AUXILIARY BOILER	45	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY GENERATOR 1	2250	KW	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY GENERATOR 1	2250	KW	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY GENERATOR 1	2250	KW	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	477	HP	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	477	HP	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	477	HP	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OP	0.15	G/HP-H	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	04/08/14	03/26/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTIC	0.0075	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	2 COMBINED-CYCLE COMBUSTION TURBINES	286	MW	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	8.0	LB/H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	2 COMBINED-CYCLE COMBUSTION TURBINES	286	MW	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	17.9	LB/H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	2 COMBINED-CYCLE COMBUSTION TURBINES	286	MW	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	17.9	LB/H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	AUXILIARY BOILER	42	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0019	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	AUXILIARY BOILER	42	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	AUXILIARY BOILER	42	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY GENERATOR	1490	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.16	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY GENERATOR	1490	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.16	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY GENERATOR	1490	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.2	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	305	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	305	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	305	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	0.2	G/HP-H	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0019	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	09/21/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD COMBUSTION PRACTICES	0.0075	LB/MMBTU	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	2 COMBINED-CYCLE COMBUSTION TURBINES	235	MW	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	14	LB/H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	2 COMBINED-CYCLE COMBUSTION TURBINES	235	MW	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRAC	11	LB/H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	AUXILIARY BOILER	93	MMBTU/H	EFFICIENT BOILER DESIGN, EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS, AND A	0.0075	LB/MMBTU	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	AUXILIARY BOILER	93	MMBTU/H	EFFICIENT BOILER DESIGN, EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS, AND A	0.0075	LB/MMBTU	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	DIESEL-FIRED AUXILIARY (EMERGENCY) ENGINES (TWO)	1500	HP	USE OF ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.2	G/HP-H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	DIESEL-FIRED AUXILIARY (EMERGENCY) ENGINES (TWO)	1500	HP	USE OF ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	DIESEL-FIRED FIRE PUMP ENGINE	300	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR DIESEL FUEL AND GOOD COMBUSTION PRACTIC	0.2	G/HP-H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	DIESEL-FIRED FIRE PUMP ENGINE	300	HP	EXCLUSIVE USE OF ULTRA LOW SULFUR DIESEL FUEL AND GOOD COMBUSTION PRACTIC	0.15	G/HP-H	BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	ONSITE PAVED AND UNPAVED ROADS	0		MINIMIZE EMISSIONS BY TAKING REASONABLE PRECAUTIONS TO PREVENT PARTICULA	0		BACT-PSD
*MD-0046	KEYS ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9297	10/31/14	05/13/16	ONSITE PAVED AND UNPAVED ROADS	0		MINIMIZE EMISSIONS BY TAKING REASONABLE PRECAUTIONS TO PREVENT PARTICULA	0		BACT-PSD
*MI-0412	[illegible] POWER PLANT	WAYNE	MI	[illegible]	11/17/13	05/06/16	Combined cycle combustion turbine w/ HRSG	320	MW electrical output		0.0066	LB/MMBTU	OTHER CASE-BY-CASE
*MI-0412	[illegible] POWER PLANT	WAYNE	MI	[illegible]	11/17/13	05/06/16	Combined cycle combustion turbine w/ HRSG	320	MW electrical output		0.0066	LB/MMBTU	BACT-PSD
*MI-0412	[illegible] POWER PLANT	WAYNE	MI	[illegible]	11/17/13	05/06/16	Diesel fuel fired emergency engine (RICE)	752	HP	Good combustion practices	0.04	G/HP-H	BACT-PSD
*MI-0412	[illegible] POWER PLANT	WAYNE	MI	[illegible]	11/17/13	05/06/16	Diesel fuel fired emergency engine (RICE)	752	HP	Good combustion practices	0.0573	LB/H	BACT-PSD
*MI-0412	[illegible] POWER PLANT	WAYNE	MI	[illegible]	11/17/13	05/06/16	Diesel fuel fired emergency engine (RICE)	752	HP	Good combustion practices	0.0573	LB/H	BACT-PSD
*MI-0417	MIDLAND COGENERATION VENTURE	MIDLAND	MI	[illegible]	04/23/13	05/06/16	Natural gas fired combined cycle combustion turbine w/ [illegible]	2237	MMBTU/H	Good combustion practices	0.004	LB/MMBTU	BACT-PSD

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Table C-4. RBLC Database PM Emissions Query Results - Combined Cycle CTs/HRSG

RBLCID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROL METHOD DESCRIPTION	EMISSION LIMIT		BASIS
*MI-0405	MIDLAND COGENERATION VENTURE	MIDLAND	MI	185-12	04/23/13	05/04/16	Natural gas fired combined cycle combustion turbine	2217	MMBTU/H	Good combustion practices	0.004	LB/MMBTU	BACT-PSD
*MI-0405	MIDLAND COGENERATION VENTURE	MIDLAND	MI	185-12	04/23/13	05/04/16	Natural gas fired combined cycle combustion turbine	2217	MMBTU/H	Good combustion practices	0.008	LB/MMBTU	BACT-PSD
*MI-0405	MIDLAND COGENERATION VENTURE	MIDLAND	MI	185-12	04/23/13	05/04/16	Natural gas fired combined cycle combustion turbine	2486	MMBTU/H	Good combustion practices	0.004	LB/MMBTU	BACT-PSD
*MI-0405	MIDLAND COGENERATION VENTURE	MIDLAND	MI	185-12	04/23/13	05/04/16	Natural gas fired combined cycle combustion turbine	2486	MMBTU/H	Good combustion practices	0.008	LB/MMBTU	BACT-PSD
*MI-0405	MIDLAND COGENERATION VENTURE	MIDLAND	MI	185-12	04/23/13	05/04/16	Natural gas fired combined cycle combustion turbine	2486	MMBTU/H	Good combustion practices	0.008	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGAUXBOILERS: Two auxiliary boilers EA, 100 MMBTU/H	100	BTU/H heat input	Efficient combustion; natural gas fuel	0.0018	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGAUXBOILERS: Two auxiliary boilers EA, 100 MMBTU/H	100	BTU/H heat input	Efficient combustion; natural gas fuel	0.007	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGAUXBOILERS: Two auxiliary boilers EA, 100 MMBTU/H	100	BTU/H heat input	Efficient combustion; natural gas fuel	0.002	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion	171	MMBTU/H	Efficient combustion; natural gas fuel	0.01	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion	171	MMBTU/H	Efficient combustion; natural gas fuel	0.02	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion	171	MMBTU/H	Efficient combustion; natural gas fuel	0.01	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/H	12	heat input per	Efficient combustion; natural gas fuel	0.007	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/H	12	heat input per	Efficient combustion; natural gas fuel	0.002	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/H	12	heat input per	Efficient combustion; natural gas fuel	0.0018	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGCCA or FGCCB—4 nat. gas fired CTG w/ DB for HRSG	2587	/H heat input	Combustion air filters, efficient combustion control, low sulfur natural gas fuel.	0.0046	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGCCA or FGCCB—4 nat. gas fired CTG w/ DB for HRSG	2587	/H heat input	Combustion air filters, efficient combustion control, low sulfur natural gas fuel.	0.0021	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	FGCCA or FGCCB—4 nat. gas fired CTG w/ DB for HRSG	2587	/H heat input	Combustion air filters, efficient combustion control, low sulfur natural gas fuel.	0.0046	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	EU-FIREPUMP: Diesel fuel fired emergency backup fire pu	315	hp nameplate	Proper combustion design and ultra low sulfur diesel fuel	0.15	G/HP-H	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	EU-FIREPUMP: Diesel fuel fired emergency backup fire pu	315	hp nameplate	Proper combustion design and ultra low sulfur diesel fuel	0.4	LB/H	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	197-12	07/25/13	05/04/16	EU-FIREPUMP: Diesel fuel fired emergency backup fire pu	315	hp nameplate	Proper combustion design and ultra low sulfur diesel fuel.	0.4	LB/H	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel gas heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.007	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel gas heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.0075	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel gas heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.0075	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	FG-CTGHRSG: 2 Combined cycle CTGs with HRSGs with du	647	MW for each C	Good combustion practices and the use of pipeline quality natural gas.	0.007	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	FG-CTGHRSG: 2 Combined cycle CTGs with HRSGs with du	647	MW for each C	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	FG-CTGHRSG: 2 Combined cycle CTGs with HRSGs with du	647	MW for each C	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler B (EUAUXBOILERB)	95	MMBTU/H	Good combustion practices	0.0018	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler B (EUAUXBOILERB)	95	MMBTU/H	Good combustion practices	0.007	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler B (EUAUXBOILERB)	95	MMBTU/H	Good combustion practices	0.007	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine—natural gas (EUNGRICE)	1000	KW	Good combustion practices	0.0001	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine—natural gas (EUNGRICE)	1000	KW	Good combustion practices	0.01	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine—natural gas (EUNGRICE)	1000	KW	Good combustion practices	0.01	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine —Diesel Fire Pump (EUFPRICE)	315	HP	Good combustion practices	0.22	G/HP-H	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine —Diesel Fire Pump (EUFPRICE)	315	HP	Good combustion practices	0.09	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Emergency Engine —Diesel Fire Pump (EUFPRICE)	315	HP	Good combustion practices	0.09	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Cooling Tower — Wet Mechanical Draft (EUCOOLTWR)	0		Mist/drift eliminators	2.37	T/YR	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Cooling Tower — Wet Mechanical Draft (EUCOOLTWR)	0		Mist/drift eliminators	2.37	T/YR	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler A (EUAUXBOILERA)	55	MMBTU/H	Good combustion practices	0.0018	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler A (EUAUXBOILERA)	55	MMBTU/H	Good combustion practices	0.007	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Auxiliary Boiler A (EUAUXBOILERA)	55	MMBTU/H	Good combustion practices	0.007	LB/MMBTU	BACT-PSD
MN-0071	FAIRBAULT ENERGY PARK	RICE	MN	13100071-001	06/05/07	03/25/08	COMBINED CYCLE COMBUSTION TURBINE W/DUCT BURN	1758	MMBTU/H		0.01	LB/MMBTU	BACT-PSD
MN-0071	FAIRBAULT ENERGY PARK	RICE	MN	13100071-001	06/05/07	03/25/08	EMERGENCY GENERATOR	1750	KW		0.0004	LB/HP-H	BACT-PSD
MN-0071	FAIRBAULT ENERGY PARK	RICE	MN	13100071-001	06/05/07	03/25/08	EMERGENCY GENERATOR	1750	KW		0.0007	LB/HP-H	BACT-PSD
NJ-0074	WEST DEPTFORD ENERGY	GLOUCESTER	NJ	54878-BOP080001	05/06/09	01/27/15	TURBINE, COMBINED CYCLE	17298	MMFT3/YR	CLEAN FUELS - NATURAL GAS AND ULTRA LOW SULFUR (15PPM SULFUR) DISTILLATE O	11.96	LB/H	Other Case-by-Case
NJ-0074	WEST DEPTFORD ENERGY	GLOUCESTER	NJ	54878-BOP080001	05/06/09	01/27/15	TURBINE, COMBINED CYCLE	17298	MMFT3/YR	USE OF CLEAN FUELS, NATURAL GAS AND ULTRA LOW SULFUR DISTILLATE OIL	11.96	LB/H	Other Case-by-Case
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Combined Cycle Combustion Turbine -Siemens turbine wi	23091	MMCF/YR	Use of Natural Gas as a Clean Burning fuel	10.5	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Combined Cycle Combustion Turbine -Siemens turbine wi	23091	MMCF/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	13	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Combined Cycle Combustion Turbine -Siemens turbine wi	23091	MMCF/YR	USE OF NATURAL GAS A CLEAN BURNING FUEL	13	LB/H	OTHER CASE-BY-CASE
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of natural gas a clean burning fuel	14.6	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of natural gas a clean burning fuel	14	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of natural gas a clean burning fuel	14	LB/H	OTHER CASE-BY-CASE
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	3 Cell Wet Mechanical Cooling Tower	19008	GAL/M		0.16	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	3 Cell Wet Mechanical Cooling Tower	19008	GAL/M		0.16	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	3 Cell Wet Mechanical Cooling Tower	19008	GAL/M		0.16	LB/H	OTHER CASE-BY-CASE
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of natural gas only as a clean burning fuel	14.6	LB/H	OTHER CASE-BY-CASE
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of natural gas only as a clean burning fuel	14.6	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	23091	MMCF/YR	Use of Natural Gas a clean burning fuel	8.8	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Emergency diesel fire pump	0		Use of Ultra low sulfur distillate oil	0.15	G/B-HP-H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Emergency diesel fire pump	0		Use of ultra low sulfur distillate oil	0.15	G/B-HP-H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	Emergency diesel fire pump	0		Use of Ultra low sulfur distillate oil	0.15	G/B-HP-H	OTHER CASE-BY-CASE
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITHOUT DUCT	23091	MMCF/YR	Use of Natural Gas as a clean burning fuel	9.7	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITHOUT DUCT	23091	MMCF/YR	Use of Natural Gas as a clean burning fuel	12.7	LB/H	BACT-PSD
NJ-0081	PSEG FOSSIL LLC SEWAREN GENERATING STATION	MIDDLESEX COUNTY	NJ	18098-(BOP130002)	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITHOUT DUCT	23091	MMCF/YR	Use of natural gas as a clean burning fuel	12.7	LB/H	OTHER CASE-BY-CASE
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine without Duct Burner	20282	MMCF/YR	Use of natural gas a clean burning fuel	6	LB/H	BACT-PSD
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine without Duct Burner	20282	MMCF/YR	Use of natural gas a clean burning fuel	10	LB/H	BACT-PSD
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine without Duct Burner	20282	MMCF/YR	Use of natural gas a clean burning fuel	10	LB/H	BACT-PSD
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine with Duct Burner	20282	MMCF/YR	Use of Natural gas a clean burning fuel	13.1	LB/H	BACT-PSD
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine with Duct Burner	20282	MMCF/YR	Use of Natural gas a clean burning fuel	21.95	LB/H	BACT-PSD
NJ-0082	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	54679/BOP130001	07/18/14	05/02/16	Combined Cycle Combustion Turbine with Duct Burner	20282	MMCF/YR	Use of Natural Gas a clean burning fuel	21.51	LB/H	BACT-PSD
NY-0095	CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK	NY	PSD-NY-0001	05/10/06	05/08/08	AUXILIARY BOILER	73	MMBTU/H	LOW SULFUR FUEL (0.04%)	0.011	LB/MMBTU	BACT-PSD
NY-0095	CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK	NY	PSD-NY-0001	05/10/06	05/08/08	COMBUSTION TURBINE	2221	MMBTU/H	LOW SULFUR FUEL	0.0053	LB/MMBTU	BACT-PSD
NY-0095	CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK	NY	PSD-NY-0001	05/10/06	05/08/08	COMBUSTION TURBINE	2221	MMBTU/H	LOW SULFUR FUEL (0.04%)	0.011	LB/MMBTU	BACT-PSD
NY-0095	CAITHNESS BELLPORT ENERGY CENTER	SUFFOLK	NY	PSD-NY-0001	05/10/06	05/08/08	AUXILIARY BOILER	29.4	MMBTU/H	LOW SULFUR FUEL	0.0033	LB/MMBTU	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	Mechanical draft wet cooling tower, 36 cell	322000	GAL/MIN		1.19	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	Mechanical draft wet cooling tower, 36 cell	322000	GAL/MIN		0.0034	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	Emergency fire pump engine	300	HP	Purchased certified to the standards in NSPS Subpart IIII	0.1	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	2 Combined Cycle Combustion Turbines-Siemens, without	34108	CF/Rating 12-	clean burning fuel, only natural gas	11.8	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	2 Combined Cycle Combustion Turbines-Siemens, with du	33140	MCF/Rating 12	clean burning fuel, only natural gas	14	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	2 Combined Cycle Combustion Turbines-Mitsubishi, witho	47017	MCF/Rating 12	clean burning fuel, only natural gas	11.3	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	Auxiliary Boiler	99	MMBtu/h	Clean burning fuel, only burning natural gas	0.79	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	Emergency generator	2250	KW	Purchased certified to the standards in NSPS Subpart IIII	0.09	LB/H	BACT-PSD
*OH-1252	OREGON CLEAN ENERGY CENTER	LUCAS	OH	P0110840	06/18/13	05/04/16	2 Combined Cycle Combustion Turbines-Mitsubishi, with	47017	MCF/Rating 12	clean burning fuel, only natural gas	16.1	LB/H	BACT-PSD

Table C-4. RBLC Database PM Emissions Query Results - Combined Cycle CTs/NGCC

RBLC ID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE OF DETERMINATION (LAST UPDATED)	PROCESS	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BASIS
*OH-0254	DUKE ENERGY HANGING ROCK ENERGY	LAWRENCE	OH	P0118067	12/18/12	05/04/16	Turbines (4) (model GE 7FA) Duct Burners Off	172	MW	Burning natural gas in an efficient combustion turbine	11	LB/H	BACT-PSD
*OH-0254	DUKE ENERGY HANGING ROCK ENERGY	LAWRENCE	OH	P0118067	12/18/12	05/04/16	Turbines (4) (model GE 7FA) Duct Burners On	172	MW	Burning natural gas in an efficient combustion turbine	14.9	LB/H	BACT-PSD
OK-0115	LAWTON ENERGY COGEN FACILITY	COMANCHE	OK	2001-205-C (M-1) PSD	11/12/08	05/11/07	COMBUSTION TURBINE AND DUCT BURNERS			GOOD COMBUSTION PRACTICES	0.0067	LB/MMBTU	BACT-PSD
OK-0117	PSO SOUTHWESTERN POWER PLT	CADDO	OK	2003-403-C PSD	02/08/07	05/21/07	GAS FIRED TURBINES			USE OF LOW ASH FUEL (NATURAL GAS) AND EFFICIENT COMBUSTION	0.0069	LB/MMBTU	BACT-PSD
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	01/23/09	07/19/10	COMBINED CYCLE COGENERATION (e.g. 25MW)	1882	MMBTU/H	NATURAL GAS FUEL	0.56	LB/H	N/A
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	01/23/09	07/19/10	COOLING TOWER	8	CELLS	DRIFT ELIMINATORS	0.4	LB/MMGAL	BACT-PSD
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	01/23/09	07/19/10	FUEL GAS HEATER (H2O BATH)	18.8	MMBTU/H		0.1	LB/H	N/A
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	01/23/09	07/19/10	EMERGENCY DIESEL GENERATOR (2200 HP)	2200	HP		0.72	LB/H	BACT-PSD
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	01/23/09	07/19/10	EMERGENCY FIRE PUMP (267-HP DIESEL)	267	HP		0.34	LB/H	BACT-PSD
*OK-0154	MOORELAND GENERATING STA	WOODWARD	OK	2009-309-C(M-1) PSD	07/02/13	04/15/16	Combustion Turbine	360	MW	LOW ASH FUEL AND COMBUSTION CONTROL.	22.1	LB/H	BACT-PSD
*OK-0154	MOORELAND GENERATING STA	WOODWARD	OK	2009-309-C(M-1) PSD	07/02/13	04/15/16	COMBUSTION TURBINE	360	MW	LOW ASH FUEL AND COMBUSTION CONTROL.	22.1	LB/H	BACT-PSD
*OK-0154	MOORELAND GENERATING STA	WOODWARD	OK	2009-309-C(M-1) PSD	07/02/13	04/15/16	DIESEL-FIRED EMERGENCY GENERATOR ENGINE	1341	HP	COMBUSTION CONTROL.	0.44	LB/H	BACT-PSD
*OK-0154	MOORELAND GENERATING STA	WOODWARD	OK	2009-309-C(M-1) PSD	07/02/13	04/15/16	COOLING TOWER (C) OPTION)	0	NA	MAKEUP WATER CONTROLS AND 0.0005% DRIFT ELIMINATORS.	1	TPY	BACT-PSD
*OK-0154	MOORELAND GENERATING STA	WOODWARD	OK	2009-309-C(M-1) PSD	07/02/13	04/15/16	COOLING TOWER ([illegible] OPTION)	0	NA	MAKEUP WATER CONTROLS AND 0.0005% DRIFT ELIMINATORS.	3.0	TPY	BACT-PSD
OR-0048	CARTY PLANT	MORROW	OR	25-0016-ST-02	12/29/10	09/08/11	COMBINED CYCLE NATURAL GAS FIRED ELECTRIC GENERA	2866	MMBTU/H	CLEAN FUEL	2.5	LB/MMCF	BACT-PSD
OR-0048	CARTY PLANT	MORROW	OR	25-0016-ST-02	12/29/10	09/08/11	NATURAL GAS-FIRED BOILER	91	MMBTU/H	CLEAN FUEL	2.5	LB/MMCF	BACT-PSD
*OR-0050	TROUTDALE ENERGY CENTER, LLC	MULTNOMAH	OR	26-0235	03/05/14	05/05/16	Mitsubishi M501GAC combustion turbine, combined cycle	2988	MMBTU/H	Utilize only natural gas or ULSD fuel; limit the time in startup or shutdown.	72.9	LB/H TOTAL PM	BACT-PSD
*OR-0050	TROUTDALE ENERGY CENTER, LLC	MULTNOMAH	OR	26-0235	03/05/14	05/05/16	GE LMS 100 combustion turbines, simple cycle with water	1690	MMBTU/H	Utilize only natural gas or ULSD fuel; limit the time in startup or shutdown.	9.1	LB/H TOTAL PM	BACT-PSD
*OR-0050	TROUTDALE ENERGY CENTER, LLC	MULTNOMAH	OR	26-0235	03/05/14	05/05/16	Auxiliary boiler	39.8	MMBTU/H	Utilize only natural gas.	0		BACT-PSD
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	BRADFORD COUNTY	PA	08-00045A	10/10/12	04/02/15	Emergency Generator	0			0.02	G/B-HP-H	OTHER CASE-BY-CASE
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	BRADFORD COUNTY	PA	08-00045A	10/10/12	04/02/15	Emergency Generator	0			0.02	G/B-HP-H	OTHER CASE-BY-CASE
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	BRADFORD COUNTY	PA	08-00045A	10/10/12	04/02/15	Fire Pump	0			0.09	G/B-HP-H	OTHER CASE-BY-CASE
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	BRADFORD COUNTY	PA	08-00045A	10/10/12	04/02/15	Fire Pump	0			0.02	G/B-HP-H	OTHER CASE-BY-CASE
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	BRADFORD COUNTY	PA	08-00045A	10/10/12	04/02/15	Combined-cycle Turbines (2) - Natural gas fired	3277	MMBTU/H	Using fuel with little or no ash and sulfur content.	0.004	LB/MMBTU	BACT-PSD
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/23/16	Fire Pump Engine - 460 BHP	0			0.09	G/HP-H	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/23/16	Fire Pump Engine - 460 BHP	0			0.09	G/HP-H	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/01/16	Combined Cycle Power Plants 472 MW - (2)	0			0.0057	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/01/16	Combined Cycle Power Plants 472 MW - (2)	0			0.0057	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/05/16	Combined Cycle Power Plants 472 MW - (2)	0			0.0054	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/01/16	EMERGENCY GENERATOR-ENGINE	0			0.02	G/HP-H	OTHER CASE-BY-CASE
*PA-0286	MOXIE ENERGY LLC/PATRIOT GENERATION PL	LYCOMING COUNTY	PA	41-00084A	01/31/13	04/05/16	EMERGENCY GENERATOR-ENGINE	0			0.02	G/HP-H	OTHER CASE-BY-CASE
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	SNYDER	PA	55-00001E	04/01/13	04/21/16	AUXILIARY BOILER (80 POWER)	200000	MMBTU		0.005	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	SNYDER	PA	55-00001E	04/01/13	04/05/16	DEW POINT HEATER	15	MMBTU/H		0.005	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0288	SUNBURY GENERATION LP/SUNBURY SES	SNYDER	PA	55-00001E	04/01/13	04/05/16	Combined Cycle Combustion Turbines AND DUCT BURNERS	2158000	MMBTU/H		0.009	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0291	HICKORY RUN ENERGY STATION	LAWRENCE	PA	37-337A	04/23/13	04/05/16	EMERGENCY FIREWATER PUMP	3.25	MMBTU/H		0.15	LB/H	OTHER CASE-BY-CASE
*PA-0291	HICKORY RUN ENERGY STATION	LAWRENCE	PA	37-337A	04/23/13	04/05/16	AUXILIARY BOILER	40	MMBTU/H		0.005	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0291	HICKORY RUN ENERGY STATION	LAWRENCE	PA	37-337A	04/23/13	04/05/16	EMERGENCY GENERATOR	7.8	MMBTU/H		0.02	TPY	OTHER CASE-BY-CASE
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Turbine, Combined Cycle, #1 and #2	3046	MMBTU/H		48.54	TPY	BACT-PSD
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Turbine, Combined Cycle, #1 and #2	3046	MMBTU/H		48.54	TPY	BACT-PSD
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Fuel Preheater	8.5	MMBTU/H		0.007	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Auxiliary Boiler	40	MMBTU/H		0.46	T/YR	OTHER CASE-BY-CASE
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Auxiliary Boiler	40	MMBTU/H		0.46	T/YR	N/A
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Emergency Generator	65	Gal/hr		0.017	T/YR	OTHER CASE-BY-CASE
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Emergency Generator	80	Gal/hr		0.005	T/YR	OTHER CASE-BY-CASE
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Emergency Firewater Pump	26	Gal/hr		0.005	T/YR	N/A
*PA-0296	BERKS HOLLOW ENERGY ASSOC LLC/ONTELAUNEE	BERKS	PA	06-05150A	12/17/13	05/04/16	Emergency Firewater Pump	26	Gal/hr		0.005	T/YR	N/A
*PA-0298	FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY	SCHUYLKILL	PA	54-00080A	03/04/14	05/04/16	Turbine, COMBINED CYCLE UNIT (Siemens 8000)	2267	MMBTU/H		18.4	LB/H	BACT-PSD
*PA-0298	FUTURE POWER PA/GOOD SPRINGS NGCC FACILITY	SCHUYLKILL	PA	54-00080A	03/04/14	05/04/16	Turbine, COMBINED CYCLE UNIT (Siemens 8000)	2267	MMBTU/H		15.6	LB/H	BACT-PSD
TX-0497	[illegible] FACILITY	BRAZORIA	TX	PSD-TX-995 AND 46XXX	[illegible]	10/02/07	COGENERATION TRAINS 2 AND 3 (TURBINE AND DUCT BUR	95	MW	THE USE OF PROPER COMBUSTION CONTROL AND FIRING ONLY GASEOUS FUELS CONT	18.03	LB/H	BACT-PSD
TX-0502	NACOGDOCHES POWER STERNE GENERATING FAC	NACOGDOCHES	TX	PSD-TX 1015 AND 46XXX	06/05/06	04/25/08	WESTINGHOUSE/SIEMENS MODEL 501F GAS TURBINE	180	MW	TITAN POWER LLC REPRESENTS THE FIRING OF PIPELINE NATURAL GAS IN THE COMBU	26.0	LB/H	BACT-PSD
TX-0543	[illegible] POWER PLANT	[illegible]	TX	P8924	01/23/09	11/05/09	ELECTRICAL GENERATION	8.44	MW	TCEQ'S CURRENT BACT GUIDELINES PROVIDE NO GUIDANCE FOR PM EMISSIONS FOR	0		BACT-PSD
TX-0546	[illegible] POWER STATION	HARRIS	TX	PSDTX1125	09/08/10	09/14/11	Turbine	2180	MW	use low ash fuel (natural gas or low sulfur diesel as a backup) and good combustion pra	11.1	LB/H	BACT-PSD
TX-0546	[illegible] POWER STATION	HARRIS	TX	PSDTX1125	09/02/10	09/14/11	Turbine	1398	MW	use of low ash fuel (natural gas or low sulfur diesel as a backup)	11.1	LB/H	BACT-PSD
TX-0546	[illegible] POWER STATION	HARRIS	TX	PSDTX1125	09/05/10	09/24/13	Turbine	1390	MW	use of low ash fuel (natural gas or low sulfur diesel as a backup)	11.1	LB/H	BACT-PSD
TX-0600	THOMAS C. FERGUSON POWER PLANT	LLANO	TX	PSDTX1244	09/01/11	09/14/21	Natural gas-fired turbines	390	MW	pipeline quality natural gas	31.41	LB/H	BACT-PSD
TX-0614	CHANNEL ENERGY CENTER LLC	HARRIS	TX	PSDTX955M1	10/15/13	01/08/14	Combined Cycle Turbine	180	MW	Good combustion and the use of gaseous fuel	27	LB/H	BACT-PSD
TX-0615	CHANNEL ENERGY CENTER LLC	HARRIS	TX	PSDTX955M1	10/15/13	01/08/14	Combined Cycle Turbine	180	MW	good combustion and the use of gaseous fuel	27	LB/H	BACT-PSD
TX-0616	CHANNEL ENERGY CENTER LLC	HARRIS	TX	PSDTX955M1	10/15/13	01/08/14	Combined Cycle Turbine	180	MW	good combustion and the use of gaseous fuel	27	LB/H	BACT-PSD
TX-0619	DEER PARK ENERGY CENTER	HARRIS	TX	PSDTX979M2	09/26/13	09/25/13	Combined Cycle Turbine	180	MW	good combustion and use of natural gas	27	LB/H	BACT-PSD
TX-0619	DEER PARK ENERGY CENTER	HARRIS	TX	PSDTX979M2	09/26/12	09/25/13	Combined Cycle Turbine	180	MW	good combustion and the use of natural gas	27	LB/H	BACT-PSD
TX-0619	DEER PARK ENERGY CENTER	HARRIS	TX	PSDTX979M2	09/26/13	09/25/13	Combined Cycle Turbine	180	MW		27	LB/H	BACT-PSD
TX-0632	ES JOSLIN POWER PLANT	CALHOUN	TX	PSDTX1256	09/12/12	09/25/13	Combined cycle gas turbine	195	MW		18	LB/H	BACT-PSD
TX-0632	ES JOSLIN POWER PLANT	CALHOUN	TX	PSDTX1256	09/12/12	09/25/13	Combined cycle gas turbine	195	MW	good combustion and natural gas as fuel	18	LB/H	BACT-PSD
TX-0632	ES JOSLIN POWER PLANT	CALHOUN	TX	PSDTX1256	09/12/12	09/25/13	Combined cycle gas turbine	195	MW	good combustion and natural gas as fuel	18	LB/H	BACT-PSD
*TX-0641	PINECREST ENERGY CENTER	ANGELINA	TX	PSDTX1298	11/12/13	11/21/11	combined cycle turbine	700	MW	pipeline quality natural gas and good combustion practices	79.2	LB/H	BACT-PSD
*TX-0641	PINECREST ENERGY CENTER	ANGELINA	TX	PSDTX1298	11/12/13	11/21/11	Auxiliary boiler	150	MMBTU/H	pipeline quality natural gas and good combustion practices	1.14	LB/H	BACT-PSD
*TX-0660	FGE TEXAS POWER I AND FGE TEXAS POWER II	MITCHELL	TX	PSDTX1344	03/24/14	06/13/14	Alstom Turbine	230.7	MW	Low sulfur fuel, good combustion practices	1	[illegible]	BACT-PSD
*TX-0677	CORPUS CHRISTI LIQUEFACTION PLANT	SAN PATRICIO	TX	PSDTX1306 107718	09/12/14	05/05/16	Refrigeration compressor turbines	40000	hp		0.72	LB/H	BACT-PSD
*TX-0677	CORPUS CHRISTI LIQUEFACTION PLANT	SAN PATRICIO	TX	PSDTX1306 107718	09/12/14	05/05/16	Refrigeration compressor turbines	40000	hp		0.72	LB/H	BACT-PSD
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	BRAZORIA	TX	104840 91770 PSDTX1302	07/16/14	05/05/16	Heating Medium Heaters	130	MMBTU/H		0.91	LB/H	BACT-PSD
*TX-0678	FREEPORT LNG PRETREATMENT FACILITY	BRAZORIA	TX	104840 91770 PSDTX1302	07/16/14	05/05/16	Combustion Turbine	87	MW		13.72	LB/H	BACT-PSD
*TX-0680	[illegible] ELECTRIC GENERATING STATION	CHAMBERS	TX	107xxx, PSDTX1304	05/29/14	05/05/16	Combined cycle natural gas turbines	225	MW	Good combustion practices, natural gas	0		BACT-PSD
*TX-0689	BAYPORT COMPLEX	HARRIS	TX	9146 PSDTX1342	09/03/21	05/05/16	(4) cogeneration turbines	80	MW		0		BACT-PSD
*TX-0690	BAYPORT COMPLEX	HARRIS	TX	9146 PSDTX1342	09/05/13	05/05/16	(3) gas-fired boilers	956	MMBTU/H	good combustion practices	0		BACT-PSD
*TX-0698	LA PALOMA ENERGY CENTER	CAMERON	TX	101542 PSDTX1288	02/07/13	05/05/16	(2) combined cycle turbines	650	MW		0		BACT-PSD
*TX-0698	LA PALOMA ENERGY CENTER	CAMERON	TX	101542 PSDTX1288	02/07/13	05/05/16	Boiler	150	MMBTU/H		0		BACT-PSD
*TX-0698	LA PALOMA ENERGY CENTER	CAMERON	TX	101542 PSDTX1288	02/07/13	05/05/16	cooling tower	0		mist eliminators	0.001	%	BACT-PSD
*TX-0699	SAND HILL ENERGY CENTER	TRAVIS	TX	48106, PSDTX1317	02/07/13	05/05/16	Natural gas-fired combined cycle turbine	375.9	MW		0		BACT-PSD
*TX-0710	VICTORIA POWER STATION	VICTORIA	TX	105298 PSDTX1344	12/01/14	05/05/16	combined cycle turbine	197	MW		0		BACT-PSD
*TX-0710	VICTORIA POWER STATION	VICTORIA	TX	105298 PSDTX1344	12/01/14	05/05/16	cooling tower	0		mist eliminators	0.001	%	BACT-PSD
*TX-0712	TRINIDAD GENERATING FACILITY	HENDERSON	TX	111393 PSDTX1356	11/20/14	05/05/16	combined cycle turbine	497	MW		0		BACT-PSD
*TX-0712	TRINIDAD GENERATING FACILITY	HENDERSON	TX	111393 PSDTX1356	11/20/14	05/05/16	cooling tower	0		mist eliminators	0.001	%	BACT-PSD

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Table C-4. RBLC Gasifiers Pre Evaluation Query Results - Combined Cycle CHP[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	TENASKA BROWNSVILLE OPERATING STATION	CAMERON	TX	[illegible]	[illegible]	[illegible]	[illegible]	374	MW		0	[illegible]
[illegible]	TENASKA BROWNSVILLE OPERATING STATION	CAMERON	TX	[illegible]	[illegible]	[illegible]	[illegible]	0		[illegible]	0.0005	lb
[illegible]	[illegible]	HARRIS	TX	[illegible]	[illegible]	[illegible]	[illegible]	340	MW		0	[illegible]
[illegible]	[illegible]	HARRIS	TX	[illegible]	[illegible]	[illegible]	[illegible]	0		[illegible]	0.0005	lb
[illegible]	[illegible]	WHARTON	TX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	MW	[illegible]	41	lb/h
[illegible]	COLORADO SPRINGS ENERGY CENTER	WHARTON	TX	[illegible]	[illegible]	[illegible]	[illegible]	1300	MW	[illegible]	45	lb/h
[illegible]	COLORADO SPRINGS ENERGY CENTER	WHARTON	TX	[illegible]	[illegible]	[illegible]	[illegible]	1300	MW	[illegible]	45	lb/h
[illegible]	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TARRANT	TX	[illegible]	[illegible]	[illegible]	[illegible]	230	MW		35.47	lb/h
[illegible]	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TARRANT	TX	[illegible]	[illegible]	[illegible]	[illegible]	230	MW		35.47	lb/h
[illegible]	JOHN C. HALL POWER STATION	HARRIS	TX	[illegible]	[illegible]	[illegible]	[illegible]	385	MW	[illegible]	14	lb/MW
[illegible]	JOHN C. HALL POWER STATION	HARRIS	TX	[illegible]	[illegible]	[illegible]	[illegible]	385	MW	[illegible]	14	lb/MW
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW		31.4	lb/h
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW		31.4	lb/h
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	232	MW	[illegible]	31.4	lb/h
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	232	MW	[illegible]	31.4	lb/h
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	31.4	lb/h
[illegible]	[illegible]	CHEROKEE	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	31.4	lb/h
[illegible]	[illegible]	HOOD	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	lb/h
[illegible]	[illegible]	HOOD	TX	[illegible]	[illegible]	[illegible]	[illegible]	231	MW	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	lb/h
[illegible]	PORT ARTHUR LNG EXPORT TERMINAL	JEFFERSON	TX	[illegible]	[illegible]	[illegible]	[illegible]	38	38 TONNES/YR		110	lb/h
[illegible]	PORT ARTHUR LNG EXPORT TERMINAL	JEFFERSON	TX	[illegible]	[illegible]	[illegible]	[illegible]	33	38 TONNES/YR		110	lb/h
[illegible]	PORT ARTHUR LNG EXPORT TERMINAL	JEFFERSON	TX	[illegible]	[illegible]	[illegible]	[illegible]	34	MW	Good combustion practices and use of low carbon, low sulfur fuel	2.32	lb/h
[illegible]	PORT ARTHUR LNG EXPORT TERMINAL	JEFFERSON	TX	[illegible]	[illegible]	[illegible]	[illegible]	34	MW	Good combustion practices and use of low carbon, low sulfur fuel	2.32	lb/h
VA-0319	WARREN COUNTY POWER PLANT - DOMINION	WARREN	VA	[illegible]	[illegible]	[illegible]	[illegible]	299	MWGT/HR	Natural Gas only, fuel has maximum sulfur content of 0.0005% by weight.	8	lb/h
VA-0319	WARREN COUNTY POWER PLANT - DOMINION	WARREN	VA	[illegible]	[illegible]	[illegible]	[illegible]	299	MWGT/HR	Natural Gas only, fuel has maximum sulfur content of 0.0005% by weight.	8	lb/h
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	341	MWGT/HR	Clean burning fuels and good combustion practices.	5	lb/h
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	341	MWGT/HR	Clean burning fuels and good combustion practices.	5	lb/h
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	1.86	MMBTU/HR	Clean burning LSD fuel and good combustion practices.	0.15	lb/MMBtu
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	1.86	MMBTU/HR	Clean burning LSD fuel and good combustion practices.	0.15	lb/MMBtu
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	95000	GAL/HR	Use of drift eliminators as a drift rate of 0.001% of the circulating water flow and a total	0.1	lb/h
VA-0319	NAV COGENERATION I, LLC - SMART WATTS PL	PRINCE GEORGE	VA	[illegible]	[illegible]	[illegible]	[illegible]	95000	GAL/HR	Use of drift eliminators as a drift rate of 0.001% of the circulating water flow and a total	0.1	lb/h
VA-0319	BRUNSWICK COUNTY POWER STATION	BRUNSWICK	VA	[illegible]	[illegible]	[illegible]	[illegible]	86.7	MMBTU/HR	Use sulfur/carbon fuel and good combustion practices	0.007	lb/MMBtu
VA-0319	BRUNSWICK COUNTY POWER STATION	BRUNSWICK	VA	[illegible]	[illegible]	[illegible]	[illegible]	86.7	MMBTU/HR	Use sulfur/carbon fuel and good combustion practices	0.007	lb/MMBtu
VA-0319	BRUNSWICK COUNTY POWER STATION	BRUNSWICK	VA	[illegible]	[illegible]	[illegible]	[illegible]	3443	MMBTU/HR	Use sulfur/carbon fuel and good combustion practices.	0.0075	lb/MMBtu
VA-0319	BRUNSWICK COUNTY POWER STATION	BRUNSWICK	VA	[illegible]	[illegible]	[illegible]	[illegible]	3443	MMBTU/HR	Use sulfur/carbon fuel and good combustion practices.	0.0075	lb/MMBtu
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	720	pounds/hr	Use of Natural Gas & Good Combustion Practices	0.3	lb/h
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	2775.7	HP		0	
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	751	HP		0	
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	154000	gpm	Drift Eliminator	0.02	lb/h
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	154000	gpm		0.5	lb/h
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	154000	gpm		0.01	lb/h
WV-0075	MOUNDSVILLE COMBINED CYCLE POWER PLANT	MARSHALL	WV	[illegible]	[illegible]	[illegible]	[illegible]	2419.86	pounds/hr	Good Combustion Practices, Inlet Air Filtration, & use of Natural Gas	0.9	lb/h
WV-0079	CHEVIOT PRAIRIE GENERATING STATION	LAWRENCE	WV	[illegible]	[illegible]	[illegible]	[illegible]	43	MW	good combustion practices	4	lb/h
WV-0079	CHEVIOT PRAIRIE GENERATING STATION	LAWRENCE	WV	[illegible]	[illegible]	[illegible]	[illegible]	43	MW	good combustion practices	4	lb/h
WV-0079	CHEVIOT PRAIRIE GENERATING STATION	LAWRENCE	WV	[illegible]	[illegible]	[illegible]	[illegible]	43	MW	good combustion practices	4	lb/h
WV-0079	CHEVIOT PRAIRIE GENERATING STATION	LAWRENCE	WV	[illegible]	[illegible]	[illegible]	[illegible]	43	MW	good combustion practices	4	lb/h
WV-0079	CHEVIOT PRAIRIE GENERATING STATION	LAWRENCE	WV	[illegible]	[illegible]	[illegible]	[illegible]	43	MW	good combustion practices	4	lb/h

Source: EPA RBLC, queried May 2016

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Table C-6. RBLC Database NO_x Emissions Using Months - Combined Cycle CTs/HRSG

STATE	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BACT
CT-0119	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0024	11/08/13	02/19/16	Combined Cycle Power Plant	2120000	MMBtu/12 months		2.11	lb/h	BACT-PSD
CT-0119	CPV TOWANTIC, LLC	NEW HAVEN	CT	144-0024	11/08/13	02/19/16	Combined Cycle Power Plant	2120000	MMBtu/yr	Use of inherently low sulfur fuel	2.11	lb/h	BACT-PSD
*DE-0072	DPC ENTERGY CENTER DOVER	KENT	DE	ADM-001/00132788-2 (REV-1)	10/11/12	08/19/16	UNIT 3- TG1	615	MMBTU/H		0.12	lb/h	OTHER CASE-BY-CASE
DE-0024	DAIRYLAND INDUSTRIES	KENT COUNTY	DE	APC-2012-0096	01/30/13	01/28/14	Unit 1	2.368	million BTUs		24.2	TONS	BACT-PSD
*FL-0144	DESTINOR ELEAN ENERGY CENTER	OKEECHOBEE	FL	0930211-001-AC	03/04/16	03/24/16	Combined cycle electric generating unit	3094	MMBtu/hr gas fire	Use of low sulfur fuels	3	lb/MMBtu	BACT-PSD
*IA-0101	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	11-A-498-P	04/11/14	04/04/16	Combustion turbine #1 - combined cycle	2.914	mmBtu/hr		0.0093	lb/MMBTU	BACT-PSD
*IA-0102	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	11-A-499-P	04/11/14	03/04/16	Combustion turbine #2 - combined cycle	2.914	mmBtu/hr		0.0092	LB/MMBTU	BACT-PSD
*IN-0154	ST. JOSEPH ENERGY CENTER, LLC	ST. JOSEPH	IN	141-31003-00070	12/03/12	08/04/16	FOUR (4) NATURAL GAS COMBINED CYCLE COMBUSTION T	2.388	MMBTU/H	FUEL SPECIFICATION	0.75	lb/MMBtu/hr	BACT-PSD
LA-0224	ARTI NAL ISLAND POWER PLANT	CADDO	LA	PSD-LA-774	07/24/08	01/18/13	TWO COMBINED CYCLE GAS TURBINES	2.118	MMBTU/H	USE OF LOW-SULFUR PIPELINE QUALITY NATURAL	5.87	lb/h	BACT-PSD
*MA-0045	SALEM HARBOR STATION REDEVELOPMENT	ESSEX	MA	NE-13-021	01/08/14	05/25/16	Combustion Turbine with Duct Burner	2.615	MMBTU/H		0.007	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CECIL CASE NO. 9127	04/08/14	08/16/16	1 COMBINED CYCLE COMBUSTION TURBINES, WITH DUCT	1008	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL G	12.5	lb/h	BACT-PSD
*MD-0043	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CECIL CASE NO. 9127	04/08/14	05/16/16	1 COMBINED CYCLE COMBUSTION TURBINES, WITHOUT D	770	MW	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL G	8.7	lb/h	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PGC CASE NO. 9172	11/13/15	05/19/16	1 COMBINED-CYCLE COMBUSTION TURBINES	798	MW	INITIAL AND ANNUAL PERFORMANCE TEST USING	4.6	lb/h	BACT-PSD
ME-0061	*PIO POSTAL LLC DEWAREN GENERATING STATIO	MIDDLESEX COUNTY	NJ	18088 (BOP130002)	08/07/14	01/07/16	Combined Cycle Combustion Turbine - Siemens turbine wit	3.3891	MMBtu/HR	USE OF NATURAL GAS & CLEAN BURNING FUEL	2.79	lb/h	BACT-PSD
ME-0061	*PIO POSTAL LLC DEWAREN GENERATING STATIO	MIDDLESEX COUNTY	NJ	18088 (BOP120002)	03/07/14	08/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BUR	3.3891	MMBtu/HR	Use of natural gas a clean burning fuel	2.79	lb/h	BACT-PSD
ME-0061	*PIO POSTAL LLC DEWAREN GENERATING STATIO	MIDDLESEX COUNTY	NJ	18088 (BOP120002)	03/07/14	07/07/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BUR	3.3891	MMBtu/HR	Use of natural gas a clean burning fuel and a low s	2.87	lb/h	BACT-PSD
ME-0061	*PIO POSTAL LLC DEWAREN GENERATING STATIO	MIDDLESEX COUNTY	NJ	18088 (BOP120002)	03/07/14	07/02/16	COMBINED CYCLE COMBUSTION TURBINE WITHOUT DUCT	3.3891	MMBtu/HR	Use of natural gas a low sulfur fuel	2.74	lb/h	BACT-PSD
NJ-0103	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	14078/BOP120001	07/18/14	03/02/16	Combined Cycle Combustion Turbine without Duct Burner	1027.2	MMCF/YR	Use of natural gas a clean burning fuel	0.74	lb/h	OTHER CASE-BY-CASE
NJ-0103	WEST DEPTFORD ENERGY STATION	GLOUCESTER	NJ	14078/BOP120001	07/18/14	03/02/16	Combined Cycle Combustion Turbine with Duct Burner	1027.2	MMCF/YR	Use of natural gas a clean burning fuel	0.98	lb/h	OTHER CASE-BY-CASE
NY-0095	CATINOR'S BELLPORT ENERGY CENTER	SUFFOLK	NY	P10-01-0071	05/19/08	05/08/08	COMBUSTION TURBINE	2271	MMBtu/hr	NOXTUNE'S PBTL	0.0084	lb/MMBTU	BACT-PSD
*OH-0194	DELTA ENERGY MARCHING ROCK ENERGY	LAWRENCE	OH	P0113048	12/18/12	01/04/16	Turbines (4) (model GE 7FA) Duct Burners Off	172	MW	Burning natural gas in an efficient combustion tur	0.14	lb/h	BACT-PSD
*OH-0196	DELTA ENERGY MARCHING ROCK ENERGY	LAWRENCE	OH	P0113048	12/18/12	01/04/16	Turbines (4) (model GE 7FA) Duct Burners On	172	MW	Burning natural gas in an efficient combustion tur	0.21	lb/h	BACT-PSD
*OH-0050	TRIDELTA ENERGY CENTER, LLC	MULTNOMAH	OR	35-0215	03/05/14	05/25/16	Mitsubishi M501-GAC combustion turbine, combined cycle	2888	MMBTU/H	Utilize only natural gas as an IRED fuel	0		BACT-PSD
PA-0178	MOXIE LIBERTY LLC/LIBERTY POWER & PA T	BRADFORD COUNTY	PA	PAA-000496	10/11/12	04/05/16	Combined-cycle Turbines (2) - Natural gas fired	2777	MMBTU/H		0.0032	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0196	MOXIE ENERGY LLC/PATRIOT GENERATION PLT	TIOGA COUNTY	PA	41-00004A	05/21/13	04/07/16	Combined Cycle Power Block: 472 MW - (2)	8			0.0001	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0203	SUNBURY GENERATION LP/SUNBURY GES	SNYDER	PA	55-00001	04/01/13	04/07/16	Combined Cycle Combustion Turbine AND DUCT BURNER	2538000	MMBTU/H		0.0018	LB/MMBTU	OTHER CASE-BY-CASE
*PA-0291	MELCHER RUN ENERGY STATION	LAWRENCE	PA	37-317A	04/23/13	04/07/16	COMBINED CYCLE UNITS #1 and #2	8.4	MMCF/HR		2.18	LB/GRID/HR	OTHER CASE-BY-CASE
*PA-0296	KEYSTONE ENERGY ARROC LLC/CONTLAWNE	BERKS	PA	06-05118BA	12/17/13	08/04/16	Turbine, Combined Cycle, #1 and #2	3046	MMBTU/H		0.07	T/YR	OTHER CASE-BY-CASE
*PA-0298	ITHME POWER PARCOCO BRANCH NODE FACIL	SCHUYLKILL	PA	54-00002A	03/04/14	05/04/16	Turbine, COMBINED CYCLE UNIT (Siemens 5000)	2367	MMBTU/H		3.4	LB/H	BACT-PSD
TX-0447	NESTLE CHOCOLATE BAYONNE FACILITY	BRAZORIA	TX	PSD-TX-NEW AND 46192	08/19/06	10/02/07	COGENERATION TRAIN 2 AND 3 (TURBINE AND DUCT BUR	23	MW	THE TURBINES WILL FIRE NATURAL GAS AND THE	1.94	lb/h	BACT-PSD
TX-0581	CHEROKEE POWER STATION ENERATING FACI	NACOGDOCHES	TX	PSD-TX-1071 AND 49293	06/05/08	06/05/08	WESTINGHOUSE/SIEMENS MODEL SGT6-5000F GAS TURBINE	150	MW		2.5	lb/h	BACT-PSD
TX-0830	THOMAS C. FERGUSON POWER PLANT	LLANO	TX	PSD-TX-1041	08/01/11	04/15/11	Natural gas-fired turbines	250	MW	pipeline quality natural gas	13.04	lb/h	BACT-PSD
*TX-0734	B B DEXTER ELECTRIC GENERATING STATION	HARRIS	TX	PSD-TX-1331 PDT11294	12/18/14	08/09/16	(2) combined cycle turbines	248	MW		9.5	SULFUR/100 D	BACT-PSD
*TX-0745	CPV CORPUS BRIDGE ENERGY CENTER	WHARTON	TX	119561, PSD-TX-1410, GHGPSD-TX-117	04/01/15	05/16/16	Combined-cycle gas turbine electric generating facility	1.208	MW	refined combined lea, natural gas fuel	3	CA/100 MCF	BACT-PSD
*TX-0751	EAGLE MOUNTAIN STEAM ELECTRIC STATION	TARRANT	TX	117026, PSD-TX-1290, R700	06/18/15	06/29/15	Combined Cycle Turbines (Rgt 25 MW) RC natural gas	250	MW		15.34	LB/H	BACT-PSD
*TX-0774	FCI EAGLE PASS PROJECT	CHEROKEE	TX	119516, PSD-TX-1414, AND GHGPSD-T	11/04/15	12/29/15	Combined Cycle Turbines (Rgt 25 MW)	223	MW	low sulfur fuel	10.4	T/YR	BACT-PSD
*TX-0788	MCCOYS STATION	CHEROKEE	TX	123401, PSD-TX-1425, GHGPSD-TX-115	05/04/16	06/21/16	Combined Cycle Gamma, Cogeneration	251	MW	GOOD COMBUSTION PRACTICES AND LOW SULFU	3	CA/100 MCF	BACT-PSD
*TX-0799	PECONGO/ATSAM ELECTRIC STATION	HOOD	TX	107569 AND PSD-TX-1432	03/08/16	08/11/16	Combined Cycle Gamma, Cogeneration	251	MW	GOOD COMBUSTION PRACTICES AND LOW SULFU	3	CA/100 MCF	BACT-PSD
VA-0135	WARREN COUNTY POWER PLANT - DOMINION	WARREN	VA	81351-007	12/17/13	05/30/13	COMBINED CYCLE TURBINE, Gamma, DUCT BURNER, 8	7996	MMBTU/H	Natural Gas burning	0.1003	LB/MMBTU	BACT-PSD
*WA-0071	BREMERTON COUNTY POWER STATION	BREMERTON	WA	13-04-021	08/12/13	08/21/13	COMBUSTION TURBINE & NATURATORS, (2)	1443	MMBTU/H	low sulfur fuel	0.0036	LB/MMBTU	BACT-PSD

Source: EPA RBLC, queried May 2016

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Table C-6. GHLC Database CO2 Emission Query Results

ORIS ID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER(S)	PERMIT ISSUANCE DATE	DATE OF EMISSIONS DATA UPDATED	FUEL(S)	MEGAWATT		CONTROL METHOD	EMISSION LIMIT		BACT
[illegible]	[illegible]	[illegible]	CT	[illegible]	11/20/13	02/14/14	Combined Cycle Power Plant	21,000000	MW/hr/yr		[illegible]	LB/MWh	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04/14/14	05/04/14	Combustion turbine #1 - combined cycle	2758	mmBtu/hr		[illegible]	LB/MW-H	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	04/14/14	05/04/14	Combustion turbine #2, combined cycle	2758	mmBtu/hr		[illegible]	lb/mw-hr (CN/	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08/26/11	12/12/11	AUXILIARY BOILER (UNIT-1)	250	MMBTU/H		117	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06/26/11	12/12/11	FIRE PUMP ENGINE GENERATOR	1248	HP	PROPER OPERATION AND GOOD COMBUSTION PRACTICES	149	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	06/26/11	12/12/11	DIESEL FIRE PUMP	230	HP	PROPER OPERATION AND GOOD COMBUSTION PRACTICES	196	LB/MMBTU	BACT-PSD
[illegible]	[illegible]	[illegible]	MD	MDC CASE NO. 9797	10/31/14	05/18/16	1 COMBINED-CYCLE COMBUSTION TURBINES	235	MW	CO2 CEMS	800	LB/MW H CO	BACT-PSD
[illegible]	[illegible]	MIDDLESEX COUNTY	NJ	[illegible]	07/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	[illegible]	MMCF/YR		975	LB/MW-H	BACT-PSD
[illegible]	[illegible]	MIDDLESEX COUNTY	NJ	[illegible]	03/07/14	05/02/16	COMBINED CYCLE COMBUSTION TURBINE WITH DUCT BU	1588	MMCF/YR		975	LB/MW-H	BACT-PSD
[illegible]	[illegible]	[illegible]	PA	08-0313004	12/17/13	05/06/16	Turbine, Combined Cycle, #1 and #2	3046	MMBTU/H		1800	LB/MW-H	BACT-PSD
[illegible]	[illegible]	[illegible]	PA	08-0313004	12/17/13	05/06/16	Fuel Preheater	0.5	MMBTU/H		0000.0	T/YR	N/A
[illegible]	[illegible]	[illegible]	IL	PSD-TX-1244-GHG	11/25/11	09/25/13	TURBINE (ETL - DIESEL) (FIRED) (MISCELLANEOUS GENERATOR	211.8		Fly ash shed; fuel conveying equipment (two) 0.3 gram/dry dry; [illegible]	2927.8	T/YR	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	PSD-TX-979-GHG	11/29/12	01/08/14	CTCL(MISC)(TCD) (Seed)	0			(002427)	T/YR	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	PSD-TX-979-GHG	11/29/12	01/08/14	NG-FLO	0			0.11	T/YR	OTHER CASE BY-CASE
[illegible]	[illegible]	HARRIS	TX	PSD-TX-979-GHG	11/29/12	01/08/14	CTCL(MISC)(PCO-Seed)	0			0.05	T/YR	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	PSD-TX-975-GHG	11/29/12	01/07/14	CTCL(MISC)(TD-Seed)-Initial Phase	0			(004191)	T/YR	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	PSD-TX-975-GHG	11/29/12	01/07/14	NG-FLO	0			0.20	T/YR	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	PSD-TX-975-GHG	11/29/12	01/07/14	CTCL(MISC)(TCD-Seed)-Final Phase	0			(002893)	T/YR	BACT-PSD
[illegible]	[illegible]	[illegible]	TX	PSD-TX-1389-GHG	09/25/14	05/04/16	Large Combustion Turbine	705	MW		970	LB/MW-H	BACT-PSD
[illegible]	[illegible]	[illegible]	TX	[illegible]	09/01/15	05/06/16	Combined-cycle gas turbine electric generating facility	1200	MW	efficient generators, gas turbines, and drivers	0.70	LB/MWH	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	[illegible]	08/15/15	12/22/15	Simple cycle turbines greater than 25 megawatts (Unit 6)	510	MW		1372	LB /MW H	BACT-PSD
[illegible]	[illegible]	HARRIS	TX	[illegible]	09/15/15	12/22/15	Combined cycle and cogeneration turbines greater than 2	304	MMBTU/H		839	LB /MW H	BACT-PSD
[illegible]	[illegible]	CHAMBERS	TX	[illegible]	09/15/15	09/06/16	Simple cycle turbines greater than 25 megawatts (Unit	720	MW		1372	LB CO2/MWH	BACT-PSD
[illegible]	[illegible]	CHAMBERS	TX	[illegible]	09/15/15	09/06/16	Combined cycle and cogeneration turbines greater than 2	304	MMBTU/H		839	LB CO2/MWH	BACT-PSD

Source: EPA GHG, queried May 2016

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Table C-8. GHG Database CO Emissions Cheery Sample - Boilers [illegible]

STATE	FACILITY NAME	COUNTY	STATE	PERMIT REASON	PERMIT CHANGE DATE	DATE OF PERMITTED MOD/CONSTRUCTION	PROCESS	THROUGHPUT	CONTROL METHOD	EMISSION LIMIT	BACT
AK [illegible]	[illegible]	[illegible]	AK	[illegible]	01/04/13	03/19/14	Three (3) Package Boilers	243 MMBTU/H		90 PPMV	BACT PSD
AR [illegible]	[illegible]	[illegible]	AR	[illegible]	11/18/13	03/23/14	[illegible]	240 MMBTU/H	GOOD AND EFFICIENT OPERATING PRACTICES	0.06 LB/H	BACT PSD
CA [illegible]	[illegible]	[illegible]	CA	[illegible]	10/23/13	01/27/14	AUXILIARY BOILER	110 MMBTU/H		30 PPMVD	BACT PSD
GA [illegible]	PLANT MCDONOUGH COMBINED CYCLE	COBB	GA	[illegible]	01/07/08	10/07/08	AUXILIARY BOILERS	700 MMBTU/H		0.007 LB/MMBTU	BACT PSD
IA [illegible]	[illegible]	[illegible]	IA	[illegible]	05/16/2012	06/13/13	Auxiliary Boiler	473.4 MMBTU/H	good combustion practices	0.0011 LB/MMBTU	BACT PSD
ID [illegible]	POWER COUNTY ADVANCED ENERGY CENTER	POWER	ID	[illegible]	02/14/08	07/07/10	150 MMBTU/H PACKAGE BOILER, SAC	150 MMBTU/H	GOOD COMBUSTION PRACTICES	0.074 LB/MMBTU	BACT PSD
[illegible]	CROWLEY MINERALS, LLC	COLUMBIA	FL	[illegible]	06/05/2014	01/05/15	Boiler	264 MMBTU/H	good combustion practices	0.03 LB/MMBTU	BACT PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	08/21/13	08/04/15	FOUR (4) NATURAL GAS-FIRED BOILER	218 MMBTU/H, EACH	PROPER DESIGN AND GOOD COMBUSTION PRACTICES	27.23 LB/MMBTU	BACT PSD
LA [illegible]	[illegible]	[illegible]	LA	[illegible]	07/24/08	04/30/09	TCU(1), EQT113 - TWO UTIL. BOILER	298 MMBTU/H	GOOD COMBUSTION PRACTICES	0.0363 LB/MMBTU	BACT PSD
LA [illegible]	[illegible]	[illegible]	LA	[illegible]	05/27/11	05/04/06	COMBUSTORS(2 BOILER) [illegible]	217.8 MM BTU/HR	GOOD COMBUSTION PRACTICES, PROPER DESIGN OF BURNER AND FIREBOX COMP	30.87 LB/H	BACT PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12/29/2009	12/16/10	BOILER	1190 MMBTU/H	EFFICIENT COMBUSTION	0.173 LB/MMBTU	BACT PSD
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07/24/08	12/16/10	AUXILIARY BOILER	250 MMBTU/H	EFFICIENT COMBUSTION	0.005 LB/MMBTU	OTHER CASE BY CASE
[illegible]	NORTHERN ILLINOIS POWER CO. (DBA PCI	BARTLETT	[illegible]	[illegible]	05/13/08	10/01/08	BOILER, AUXILIARY, NATURAL GAS	148 mmbtu/h	GOOD COMBUSTION	0.06 LB/MMBTU	BACT PSD
[illegible]	[illegible]	ADAMS	[illegible]	[illegible]	08/06/14	01/15/15	261 MMBtu/h normal gas fired boiler	261 MMBTU/H	CO Catalyst Oxidation	5 PPMV @ 3% O2	BACT PSD
[illegible]	HARVEST OPERATING COMPANY, INC.	CLARK	[illegible]	217	06/29/08	12/01/09	BOILER - UNIT 2-11	21 MMBTU/H	OPERATING IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION	0.046 LB/MMBTU	Other Case-by-Case
[illegible]	[illegible]	CLARK	[illegible]	221	11/30/09	01/15/10	BOILERS - UNITS 2C2-16, 2C2-17 AND 2	44 MMBTU/H	GOOD COMBUSTION PRACTICES INCLUDING THE USE OF PROPER AIR TO FUEL RATI	0.0145 LB/MMBTU	LAER
OH [illegible]	AMERICAN MUNICIPAL POWER GENERA	MERCER	OH	[illegible]	10/08/09	11/06/09	AUXILIARY BOILER	250 MMBTU/H		12.6 LB/H	BACT PSD
OH [illegible]	CAMPBELL SOUP COMPANY	[illegible]	OH	[illegible]	12/14/12	10/13/11	Boilers (3)	8		0.07 LB/MMBTU	BACT PSD
OH [illegible]	[illegible]	WASHINGTON	OH	[illegible]	01/13/12	05/06/15	Two 249 MMBtu/H boilers	249 MMBtu/H	Use of clean fuels and good combustion practices	0.036 LB/MMBTU	BACT PSD
[illegible]	[illegible]	[illegible]	TX	[illegible]	06/19/08	01/19/10	Two Natural Gas-Fired Auxiliary Boile	450 MMBtu/H	Good combustion design and practices	0.004 LB/MMBTU	BACT PSD
TX [illegible]	SANDY CREEK ENERGY STATION	MCLENNAN	TX	[illegible]	07/24/08	11/06/09	AUXILIARY BOILER	179 MMBTU/H		6.3 LB/H	BACT PSD
TX [illegible]	[illegible]	[illegible]	TX	[illegible]	12/12/13	12/21/13	Auxiliary boiler	250 MMBTU/H	Operating quality natural gas and good combustion	73 PPMVD	BACT PSD
TX [illegible]	[illegible]	CAMERON	TX	[illegible]	03/07/13	05/09/14	Boiler	199 MMBTU/H	good combustion practices	75 PPMVD	BACT PSD
TX [illegible]	[illegible]	[illegible]	TX	[illegible]	06/18/15	05/21/14	Industrial-Size Boilers/Flameless	0	Good combustion practice to ensure complete combustion	30 PPMVD @ 3% O2	BACT PSD
[illegible]	[illegible]	MARSHALL	WV	[illegible]	11/21/14	08/08/15	Auxiliary Boiler	100 mmBtu/hr	Good Combustion Practices	4 LB/H	BACT PSD

Source: EPA RBLC, queried May 2016

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Table C-8. RBLC Database VOC Emissions Query Results - Boilers 100MMBtu/hr < E < 250 MMBtu/hr

RBLID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE OF INFORMATION LAST UPDATED	PROCESS	THROUGHPUT	CONTROL METHOD	EMISSIONS LIMIT	DATA
AK-0083	LENAI NITROGEN OPERATIONS	UNA	AK	AQ0081CPT06	01/06/13	02/15/16	Three (3) Heritage Boilers	243 MMBTU/H		0.0054 LB/MMBTU	BACT-PSD
*AR-0131	EL DORADO CHEMICAL COMPANY	UNION	AR	0573 AOP R16	11/18/13	02/25/16	START UP BOILER	240 MMBTU/H	GOOD AND EFFICIENT OPERATING	0.46 LB/H	BACT-PSD
GA-0127	PLANT MCDONOUGH COMBINED CYCLE	COBB	GA	4911-067-0003-V-03-	01/07/08	10/09/08	AUXILLARY BOILERS	200 MMBTU/H		0.0051 LB/MMBTU	LAER
IA-0102	IOWA FERTILIZER COMPANY	LEE	IA	12-219	02/28/2012 Entered AC	08/13/13	Auxiliary Boiler	477.4 MMBTU/H	good combustion practices	0.0014 LB/MMBTU	BACT-PSD
*IL-0114	CROMUS CHEMICALS, LLC	DOUGLAS	IL	13050037	12/05/2014 Entered AC	05/02/16	Boiler	384 MMBTU/H	good combustion practices	0.0054 LB/MMBTU	BACT-PSD
*IN-0175	OHIO VALLEY RESOURCES, LLC	SPENCER	IN	147-37123-00062	09/22/11	05/04/16	FOUR (4) NATURAL GAS-FIRED BOILER	238 MMBTU/HR, EACH	PROPER DESIGN AND GOOD COMP	3.5 LB/MMCF	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	02/27/13	03/04/16	COMMERCIAL/MORING BOILER 1 Battery; 2	217.5 MM BTU/HR	FLUE GAS RECIRCULATION AND GO	3.41 LB/H	BACT-PSD
MI-0383	KARN WEADOCK GENERATING COMPLEX	BAY	MI	341-07	2/25/2009 Entered AC	12/16/30	BOILER	8150 MMBTU/H	EFFICIENT COMBUSTION	0.003 LB/MMBTU	BACT-PSD
MI-0383	KARN WEADOCK GENERATING COMPLEX	BAY	MI	341-07	12/25/07	12/16/30	AUXILIARY BOILER	270 MMBTU/H	EFFICIENT COMBUSTION	0.0013 LB/MMBTU	BACT-PSD
MN-0086	NORTHERN STATES POWER CO, DBA XCEL	RAMSEY	MN	053300015-004	03/18/08	10/02/08	BOILER, AUXILIARY, NATURAL GAS	108 mmbtu/h	GOOD COMBUSTION	0.005 LB/MMBTU	BACT-PSD
*MS-0082	LIMBE ICE AIR CTL MS	ADAMS	MS	0040-00053	05/08/14	01/18/15	261 MMBtu/h natural gas-fired boiler	261 MMBTU/H		0	BACT-PSD
*NE-0179	ACP BOY	ADAMS	NE	CP14-007	01/22/13	08/18/13	Boiler #1	208 MMBTU/H		0.0054 LB/MMBTU	BACT-PSD
*NE-0179	ACP BOY	ADAMS	NE	CP14-007	01/22/13	08/18/13	Boiler #2	208 MMBTU/H		0.0054 LB/MMBTU	BACT-PSD
NV-0050	MGM MIRAGE	CLARK	NV	875	11/30/09	01/15/10	BOILERS - UNITS CC008, CC007 AND C	44 MMBTU/H	LIMITING THE FUEL TO NATURAL G	0.0055 LB/MMBTU	Other Case-by-Case
OH-0319	AMERICAN MUNICIPAL POWER GENERAT	MEIGS	OH	P0104861	10/06/09	11/06/09	AUXILIARY BOILER	150 MMBTU/H		0.83 LB/H	BACT-PSD
OH-0334	CAMPBELL SOUP COMPANY	HENRY	OH	P0108878	12/14/10	10/12/11	Boilers (3)	0		0.0054 LB/MMBTU	OTHER CASE BY CASE
TX-0499	SANDY CREEK ENERGY STATION	MCLENNAN	TX	PSD-TX-1099 AND 70	07/24/06	11/08/07	AUXILLARY BOILER	175 MMBTU/H		0.7 LB/H	BACT-PSD
*TX-0841	PANDHANDLE ENERGY CENTER	ANGELINA	TX	PSDTX1298	11/12/13	11/21/13	Auxiliary boiler	150 MMBTU/H	pipeline quality natural gas and go	0.9 LB/H	BACT-PSD
*TX-0708	LA PALOMA ENERGY CENTER	CAMERON	TX	101542 PSDTX1288	02/07/13	05/09/16	Boiler	150 MMBTU/H	good combustion practices	0	BACT-PSD
*WV-0075	MOUNTAINEER COMBINED CYCLE POWER	MAMPSHALL	WV	R14-0795	11/21/14	09/30/15	Auxiliary Boiler	105 mmbtu/hr	Use of Natural Gas & Good Combu	0.6 LB/H	BACT-PSD

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Table C-1b. RBLC Database PM Limitations Query Results - Boilers 100MMBtu/hr < X < 250 MMBtu/hr

RBLID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT	CONTROL METHOD	EMISSIONS LIMIT	BASIS
AK-0078	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/29/10	01/08/14	Fuel Combustion	148 MMBTU/H	Combustion Turbines EU ID# 9-12 u	7.6 LB/MMBTU	BACT-PSD
AK-0078	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	12/29/10	01/08/14	Fuel Combustion	32.8 MMBTU/H	Combustion Turbines EU ID# 13 u	7.6 LB/MMBTU	BACT-PSD
AK-0078	INTERNATIONAL STATION POWER PLANT	ANCHORAGE	AK	AQ0164CPT01	7/26/2010 Airnxp;AC	01/08/14	Fuel Combustion	1,500 KW-e	Black Start diesel fuel engine EU I	0.01 G/KW-H	BACT-PSD
AK-0081	TESORO NORTHWEST OPERATIONS	USA	AK	AQ0083CPT06	01/08/15	02/19/16	Three (3) Package Boilers	243 MMBTU/H		0.0074 LB/MMBTU	BACT-PSD
AK-0081	TESORO NORTHWEST OPERATIONS	USA	AK	AQ0083CPT06	01/08/15	02/19/16	Three (3) Package Boilers	243 MMBTU/H		0.0074 LB/MMBTU	BACT-PSD
AK-0081	TESORO NORTHWEST OPERATIONS	USA	AK	AQ0083CPT06	01/08/15	02/19/16	Three (3) Package Boilers	243 MMBTU/H		0.0074 LB/MMBTU	BACT-PSD
CA-1312	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110 MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8 LB/H	BACT-PSD
CA-1312	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110 MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8 LB/H	BACT-PSD
CA-1312	PALMDALE HYBRID POWER PROJECT	LOS ANGELES	CA	SE 09-01	10/18/11	01/27/14	AUXILIARY BOILER	110 MMBTU/H	USE PUC QUALITY NATURAL GAS	0.8 LB/H	BACT-PSD
IA-0305	IOWA FERTILIZER COMPANY	LEE	IA	12-219	0/29/2012 Airnxp;AC	08/13/13	Auxiliary Boiler	472.4 MMBTU/H	good combustion practices	0.0034 LB/MMBTU	BACT-PSD
IA-0305	IOWA FERTILIZER COMPANY	LEE	IA	12-219	0/29/2012 Airnxp;AC	08/13/13	Auxiliary Boiler	472.4 MMBTU/H	good combustion practices	0.0034 LB/MMBTU	BACT-PSD
IA-0305	IOWA FERTILIZER COMPANY	LEE	IA	12-219	0/29/2012 Airnxp;AC	08/13/13	Auxiliary Boiler	472.4 MMBTU/H	good combustion practices	0.0034 LB/MMBTU	BACT-PSD
ID 0017	POWER COUNTY ADVANCED ENERGY CTR	POWER	ID	P-200B.0088	02/10/09	02/05/10	250 MMBTU/H PACKAGE BOILER, SRC	250 MMBTU/H	GOOD COMBUSTION PRACTICES	0.0037 LB/MMBTU	BACT-PSD
*IL-0134	CROMUS CHEMICALS, LLC	DOUGLAS	IL	13080007	9/03/2014 Airnxp;AC	05/05/16	Boiler	884 MMBTU/H	good combustion practices	0.0034 LB/MMBTU	BACT-PSD
*IL-0134	CROMUS CHEMICALS, LLC	DOUGLAS	IL	13080007	9/03/2014 Airnxp;AC	05/05/16	Boiler	884 MMBTU/H	good combustion practices	0.001 LB/MMBTU	BACT-PSD
*IN-0179	OHIO VALLEY RESOURCES, LLC	SPENCER	IN	147-37122-00062	09/25/13	05/04/16	FOUR (4) NATURAL GAS-FIRED BOILER	218 MMBTU/HR, EACH	PROPER DESIGN AND GOOD COMB	7.6 LB/MMCF	BACT-PSD
*IN-0179	OHIO VALLEY RESOURCES, LLC	SPENCER	IN	147-37122-00062	09/25/13	05/04/16	FOUR (4) NATURAL GAS-FIRED BOILER	218 MMBTU/HR, EACH	PROPER DESIGN AND GOOD COMB	7.6 LB/MMCF	BACT-PSD
LA 0279	SMURFIT-STONE PLAQUEMINE PLANT 2	IBERVILLE	LA	PSD LA-731	07/10/08	04/20/09	EQT112, EQT113 - TWO UTIL. BOILERS	250 MMBTU/H	GOOD COMBUSTION PRACTICES A	0.005 LB/MMBTU	BACT-PSD
*LA-0272	ANNIHANA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-788	07/27/11	04/04/16	COMMFOUGMMI BOILER 1 > 2	217.3 MM BTU/HR	GOOD COMBUSTION PRACTICES P	1.94 LB/H	BACT-PSD
*LA-0272	ANNIHANA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-788	07/27/11	04/04/16	COMMFOUGMMI BOILER 1 > 2	217.3 MM BTU/HR	GOOD COMBUSTION PRACTICES P	1.94 LB/H	BACT-PSD
MA-0037	CENTRAL HEATING PLANT; AMHERST CAM	HAMPSHIRE	MA	050-029-MA11	10/28/08	08/17/10	BOILERS	162 MMBTU/H		0.02 LB/MMBTU	BACT-PSD
MA-0021	KARN WEADOCK GENERATING COMPLEX	BAY	MI	341-07	7/25/2009 Airnxp;AC	12/14/10	BOILER	1190 MMBTU/H	FABRIC FILTER, HYDRATED LIME IN	0.014 LB/MMBTU	BACT-PSD
*MS-0042	EMBREE AIR GTI, MS	ADAMS	MS	0040-00055	05/08/14	01/13/15	261 MMBtu/h natural gas-fired boiler	261 MMBTU/H		1.31 LB/H	BACT-PSD
*MS-0042	EMBREE AIR GTI, MS	ADAMS	MS	0040-00055	05/08/14	01/13/15	261 MMBtu/h natural gas-fired boiler	261 MMBTU/H		1.31 LB/H	BACT-PSD
*MS-0042	EMBREE AIR GTI, MS	ADAMS	MS	0040-00055	05/08/14	01/13/15	261 MMBtu/h natural gas-fired boiler	261 MMBTU/H		1.31 LB/H	BACT-PSD
*NE-0039	ASP ICM	ADAMS	NE	CP14-007	01/25/13	08/19/15	Boiler #1	700 MMBTU/H		0.0074 LB/MMBTU	BACT-PSD
*NE-0039	ASP SCM	ADAMS	NE	CP14-007	01/25/13	08/18/15	Boiler #2	700 MMBTU/H		0.0074 LB/MMBTU	BACT-PSD
OH-0336	CAMPBELL SOUP COMPANY	HENRY	OH	P0106678	12/14/10	10/12/12	boilers (3)	0		0.01 LB/MMBTU	OTHER CASE-BY-CASE
*OH-0354	CRATON POLYMERS US, LLC	WASHINGTON	OH	P0108853	01/25/16	05/04/16	Two 249 MMBtu/h boilers	249 MMBtu/H		15.96 T/YR	N/A
*TN-0163	KINGSPORT COGENERATION	HUMPHREYS	TN	870818F	04/19/16	05/19/16	Two Natural Gas-Fired Auxiliary Boiler	450 MMBtu/hr	Good combustion design and pract	0.006 LB/MMBTU	BACT-PSD
TX-0499	MAXIM CRELMAN POST STATION	MCLENNAN	TX	20-TX 1039 AND 7080	07/24/06	11/29/07	AUXILIARY BOILER	175 MMBTU/H		0.08 LB/H	BACT-PSD
*TX 0841	PINECREST ENERGY CENTER	ANGELINA	TX	PSDTX1298	11/12/13	11/21/15	Auxiliary boiler	150 MMBTU/H	pipeline quality natural gas and gas	1.14 LB/H	BACT-PSD
*TX 0708	LA PALOMA ENERGY CENTER	CAMERON	TX	p01542 PSDTX1288	02/07/13	05/29/15	boiler	150 MMBTU/H		0	BACT-PSD
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER	MARSHALL	WV	R14-0030	11/21/14	09/30/15	Auxiliary Boiler	100 mmBtu/hr	Use of Natural Gas & Good Combu	0.5 LB/H	BACT-PSD

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Table C-11. RBLC Database H_2SO_4 Limitations Query Results – Boilers 100MMBtu/hr < X < 250 MMBtu/hr

REGION	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS	THROUGHPUT	CONTROL METHOD	EMISSION LIMIT	CLASS
MI BRP	KAWWEAUKEE GENERATING COMPANY BAY		MI	541-07	12/19/2007	12/19/2008	BOILER	8190 MMBtu/H	HYDRATED LIME, BH CLEAN AND W	0.034 lb/MMBtu	BACT-PSD

Source: EPA RBLC, queried May 2016

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Table C-12. RBLC Database NOx Emission Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLC ID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BASIS
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0110MSS06	12/20/2010 AC	03/27/13	Sigma Thermal Auxiliary Heater (1)	12.5	MMBTU/H	Low NOx burners and flue gas recirculation	0.2	LB/MMBTU	BACT-PSD
AK-0083	KENAI NITROGEN OPERATIONS	KENAI	AK	AQ0083CPT06	1/06/2015 AC	02/29/16	Startup Heater	101	MMBTU/H	Limited Use (200 hr/yr)	0.099	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACES (LA01, LA04)	37.4	MMBTU each	ULNB WITH FGR	0.11	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS FIRED PASSIVE ANNEALING FURNACE (LO41)	87.2	MMBTU/H	ULTRA LOW NOX BURNERS (ULNB) WITH EXHAUST G	0.11	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	199	MMBTU/H		0.085	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	199	MMBTU/H	ULNB WITH FGR	0.11	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	199	MMBTU/H	ULTRA LOW NOX AND LOW NOX BURNERS	0.085	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	199	MMBTU/H	SCR	100	PPMVD	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	X-0095-0001 THRU X	8/17/2007 AC	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACE (S35)	99	MMBTU/H	ULTRA LOW NOX BURNERS	0.11	LB/MMBTU	BACT-PSD
AL-0231	NUCOR DECATUR LLC	MORGAN	AL	712-0037	6/12/2007 AC	08/31/09	GALVANIZING LINE FURNACE	99.7	MMBTU/H	SCR/ULNB	0.047	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/2015 AC	04/14/16	TWO HARDENING FURNACES	4.75	LB/MMBTU	LOW NOX BURNERS	0.07	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/2015 AC	04/14/16	ANNEALING FURNACE	6.5	MMBTU/H	LOW NOX BURNER	0.06	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/2015 AC	04/14/16	TWO HEAT TREAT FURNACES	25.65	MMBTU/H	LOW NOX BURNERS	0.06	LB/MMBTU	BACT-PSD
AR-0090	NUCOR STEEL, ARKANSAS	MISSISSIPPI	AR	1139-AOP-R6	4/03/2009 AC	04/29/11	ANNEALING FURNACES (SN-61)	4.8	LB/MMBTU	LOW NOX BURNERS	0.1	LB/H	BACT-PSD
CA-1190	PETROROCK - TOWNSEND LEASE	SANTA BARBARA	CA	ATC-12949-01 (2)	1/24/2012 AC	09/26/12	Heater	3	MMBTU/H	Low NOx burner	12	PPMVD@3% O2	OTHER CASE-BY-CASE
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-02	3/11/2010 AC	01/30/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR	9	PPMVD	BACT-PSD
DE-0022	VALERO DELAWARE CITY REFINERY	NEW CASTLE	DE	AQM-003/00016	1/29/2010 AC	08/02/19	CRUDE UNIT ATMOSPHERIC HEATER 21-H-701			SCR	0.04	LB/MMBTU	BACT
DE-0030	VALERO DELAWARE CITY REFINERY	NEW CASTLE	DE	AQM-003/00016	1/29/2010 AC	08/02/19	CRUDE UNIT VACUUM HEATER 21-H-2	240	MMBTU/H	SCR	0.04	LB/MMBTU	BACT
*FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	OKEECHOBEE	FL	0930117-001-AC	3/09/2016 AC	03/16/16	Two natural gas heaters	10	mmBtu/hr	Must have NOx emission design value less than 0.1 F	0.1	LB/MMBTU	BACT-PSD
GA-0130	KIA MOTORS MANUFACTURING GEORGIA	TROUP	GA	3711-285-0034-P-01	2/27/2007 AC	10/27/08	BOILERS AND HEATERS			LOW NOX BURNERS ON BOILER BURNERS	30	PPM @ 3% O2	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	4/14/2014 AC	08/04/14	dew point heater	13.32	mmBtu/hr		0.012	LB/MMBTU	BACT-PSD
LA-0204	PLAQUEMINE PVC PLANT	IBERVILLE	LA	PSD-LA-709(M-1)	2/27/2009 AC	08/06/09	CRACKING FURNACES A-D	99	MMBTU/H EA	LOW NOX BURNERS AND SELECTIVE CATALYTIC RED	0.009	LB/MMBTU	BACT-PSD
LA-0228	[illegible] PLAQUEMINE PLANT 2	IBERVILLE	LA	PSD-LA-711	7/29/2008 AC	04/28/09	FOT123-FOT325 - FOUR VCM CRACKING FURNACES	90	MM BTU/H	LOW NOX BURNERS (LNB) IN COMBINATION WITH S	0.008	LB/MMBTU	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA-742	6/22/2009 AC	05/17/10	SHIFT REACTOR STARTUP HEATER	84.2	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	3.35	LB/H	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA-742	6/22/2009 AC	05/17/10	GASIFIER STARTUP PREHEATER BURNERS (5)	91	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	8.05	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	1/29/2010 AC	07/06/11	FOT0027 - RACOL CHARGE HEATER H-201	87.2	MMBTU/H	Low NOx burners	7.33	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	1/29/2010 AC	07/06/11	FOT0028 - RACOL STARTUP HEATER H-202	81	MMBTU/H	low nox burners	3.71	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	1/29/2010 AC	07/06/11	FOT0029 - Hot Oil Heater H-801	170	MMBTU/H	low nox burners	17.07	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	3/27/2013 AC	05/04/15	PRIMARY REFORMER FURNACE (103-B)	998.3	MM BTU/HR	SELECTIVE CATALYTIC REDUCTION (SCR) AND LOW N	14.39	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	3/27/2013 AC	05/04/15	AMMONIA STARTUP HEATER (102-B)	58.6	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN O	14.65	LB/H	BACT-PSD
MD-0036	DOMINION	CALVERT	MD	CPCN 9045	5/10/2009 AC	08/07/07	FUEL GAS PROCESS HEATER			GOOD COMBUSTION PRACTICES AND DRY LNB	17	PPMVD	LAER
MD-0040	CPV ST CHARLES	CHARLES	MD	CPCN CASE NO. 9129	3/12/2008 AC	02/20/09	HEATER	1.7	MMBTU/H		0.1	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	4/23/2014 AC	07/16/16	FUEL GAS HEATER	9.5	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD	0.035	LB/MMBTU	LAER
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 9327	4/08/2014 AC	03/16/16	DEW POINT HEATER	5	MMBTU/H	USE OF EFFICIENT DESIGN OF THE HEATER, INCLUDI	0.044	LB/MMBTU	LAER
*MD-0043	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/2015 AC	05/18/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOOD	0.035	LB/MMBTU	BACT-PSD
*MI-0405	BAY COMPRESSOR STATION	MACOMB	MI	206-09	9/14/2010 AC	07/28/14	Pipeline heaters	10	MMBTU/H	Low NOx burners	0.8	LB/H	BACT-PSD
*MI-0419	THETFORD GENERATING STATION	GENESEE	MI	193-12	7/25/2013 AC	05/09/18	FG-HEATERS; 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Dry low NOx combustors	0.09	LB/MMBTU	BACT-PSD
*MI-0418	THETFORD GENERATING STATION	GENESEE	MI	193-12	7/25/2013 AC	05/09/18	FG-FUELHTRS; 2 natural gas fuel heaters, 12 MMBTU/H each	12	heat input eac	Low NOx burners	0.05	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/2013 AC	05/09/18	Fuel pre-heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices.	0.55	LB/H	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	9/07/2007 AC	10/30/08	PROCESS HEATERS	800	MMBTU/H		0.04	LB/MMBTU	BACT-PSD
MN-0071	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	9/07/2007 AC	10/30/08	SMALL BOILERS & HEATERS(<100 MMBTU/H)	99	MMBTU/H		0.0095	LB/MMBTU	BACT-PSD
NE-0043	NATUREWORKS, LLC	WASHINGTON	NE	[illegible]	4/29/2008 AC	03/11/09	HOT OIL HEATER	75	MMBTU/H	LOW-NOX BURNERS & FGR	9		BACT-PSD
NV-0047	NELLIS AIR FORCE BASE	CLARK	NV	114	2/26/2008 AC	10/21/09	BOILERS/HEATERS - NATURAL GAS-FIRED			LOW-NOX BURNERS AND FLUE GAS RECIRCULATION	0.05	LB/MMBTU	Other Case-by-Case
NV-0047	NELLIS AIR FORCE BASE	CLARK	NV	114	2/26/2008 AC	10/21/09	BOILERS/HEATERS - DIESEL OIL-FIRED			LOW-NOX BURNER	0.14	LB/MMBTU	BACT-PSD
NV-0050	MGM MIRAGE	CLARK	NV	875	11/30/2009 AC	07/15/11	WATER HEATERS - UNITS NY017 AND NY018 AT NEW YORK - NEW YORK	2	MMBTU/H	LOW-NOX BURNERS AND GOOD COMBUSTION PRAC	0.035	LB/MMBTU	Other Case-by-Case
*OH-0338	REPUBLIC STEEL	LORAIN	OH	P0109191	7/18/2012 AC	05/06/16	Electric Arc Furnace	150	T/H		0.5	LB/T	N/A
*OH-0363	GENERAL ELECTRIC AVIATION, EVENDALE PLANT	HAMILTON	OH	P0112127	5/07/2015 AC	05/06/16	4 indirect-fired Air Preheaters	6			0.14	LB/MMBTU	LAER
OK-0129	MID AMERICAN STEEL ROLLING MILL	MARSHALL	OK	2005-100-C(M-1) PSD	1/23/2009 AC	12/13/10	Electric Arc Furnaces	10	ann per furnace		0.3	LB/T SCRAP	BACT-PSD
OK-0130	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1) PSD	1/23/2009 AC	02/16/10	FUEL GAS HEATER (H2O BATH)	18.8	MMBTU/H		2.7	LB/H	BACT-PSD
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	2/23/2009 AC	08/30/11	Nitric Acid Preheater No. 1 (EU 401, EUG 4)	29	MMBTU/H	Low NOx burners/good combustion practices	0.98	LB/H	BACT-PSD
OK-0135	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	2/23/2009 AC	02/18/10	NITRIC ACID PREHEATERS #1, #3, AND #4	38	MMBTU/H	LOW NOX BURNERS AND GOOD COMBUSTION PRAC	0.96	LB/H	BACT-PSD
OK-0136	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	2/09/2009 AC	02/18/10	H-8 NEW NO. 4 CTU VACUUM HEATER	45	MMBTU/H	ULTRA-LOW NOX BURNERS, 0.03 LB/MMBTU	1.29	LB/H	BACT-PSD
OK-0136	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	2/09/2009 AC	02/18/10	H-4 NEW NO. 4 CTU CRUDE HEATER	125	MMBTU/H	ULTRA-LOW NOX BURNERS, 0.03 LB/MMBTU	3.75	LB/H	BACT-PSD
OK-0136	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	2/09/2009 AC	02/18/10	H-6 NEW NO. 1 CTU TAR STRIPPER HEATER	98	MMBTU/H	ULTRA-LOW NOX BURNERS, 0.03 LB/MMBTU	2.94	LB/H	BACT-PSD
*OK-0153	ROSE VALLEY PLANT	WOODS	OK	2012-1399-C PSD	1/03/2013 AC	04/19/13	REGENERATION HEATERS	5.93	MMBTU/H	LOW-NOX BURNERS	0.049	LB/MMBTU	BACT-PSD
*OK-0153	ROSE VALLEY PLANT	WOODS	OK	2012-1399-C PSD	1/03/2013 AC	04/19/13	HOT OIL HEATER	17.4	MMBTU/H	LOW-NOX BURNERS	0.049	LB/MMBTU	BACT-PSD
PA-0262	CARPENTER TECH CORP	BERKS	PA	06-05007D	4/03/2007 AC	12/27/10	REHEATING FURNACES (8)				9.6	LB/H	Other Case-by-Case
PA-0263	CARPENTER TECH CORP	BERKS	PA	06-05007D	4/03/2007 AC	12/27/10	ANNEALING FURNACES (4)				8.2	LB/H	Other Case-by-Case
*PA-0298	[illegible] HOLLOW ENERGY ASSOC LLC/[illegible]	[illegible]	PA	06-05158A	1/17/2013 AC	05/04/13	Fuel Preheater	8.5	MMBTU/H		0.073	LB/MMBTU	OTHER CASE-BY-CASE
SC-0112	NUCOR STEEL - BERKELEY	BERKELEY	SC	0420-0060-DO	5/05/2008 AC	10/30/13	TUNNEL FURNACE BURNERS	54	MMBTU/H	LOW NOX BURNERS	0.1	LB/MMBTU	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/16/12	NATURAL GAS SPACE HEATERS - 14 UNITS (SO 18)	20.09	MMBTU/H		1.99	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/18/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/18/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	LOW NOX BURNERS WILL BE USED AS CONTROLS FO	8.37	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/18/12	ROTARY FLAKE DRYER #1	95000	LB/H OVEN DR	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/26/12	ROTARY FLAKE DRYER #2	95000	LB/H OVEN DR	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	1/25/2008 AC	10/26/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/26/12	197 MILLION BTU/HR WOOD FIRED FURNACE	197	MMBTU/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/26/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	THE USE OF LOW NOX BURNERS WILL BE USED AS C	8.37	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/16/12	ROTARY FLAKE DRYER #1	95000	OVEN DRY/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/16/12	ROTARY FLAKE DRYER #2	95000	LB/H OVEN DR	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/26/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/16/12	NATURAL GAS SPACE HEATERS - 14 UNITS (SO 17)	20.09	MMBTU/H		1.99	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0080-0046-CB	1/30/2009 AC	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	NOX EMISSIONS CONTROLLED THROUGH A COMBIN	119.29	LB/H	BACT-PSD

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Table C-11. RBLC Database NOx Controls Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLC ID	FACILITY NAME	COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		BASIS
TX-[illegible]	[illegible] GAS PROCESS FACILITY	HENDERSON COUNTY	TX	D-TX [illegible] AND [illegible]	7/11/2008 Act	04/29/09	TURBINE EXHAUST DUCT BURNER (3)				4.61	LB/H	BACT-PSD
TX-[illegible]	[illegible] GAS PROCESS FACILITY	HENDERSON COUNTY	TX	D-TX [illegible] AND [illegible]	7/11/2008 Act	04/29/09	BOTTOM HEATERS (2)	15	MMBTU/H		3.01	LB/H	BACT-PSD
*TX-[illegible]	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]1360 AND 107[illegible]	[illegible]/18/2014 Act	05/12/16	Heaters	45	MMBTU/H	ultra low NOx burners	0.036	LB/MMBTU	BACT-PSD
*TX-[illegible]	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]1360 AND 107[illegible]	[illegible]/18/2014 Act	05/12/16	Heaters (5)	24.5	MMBTU/H	ultra low NOx burners	0.036	LB/MMBTU	BACT-PSD
*TX-[illegible]	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	5/23/2012 Act	09/30/14	Heaters	17	MMBTU/H		0		BACT-PSD
*TX-[illegible]	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	5/23/2012 Act	09/30/14	Heaters	40	MMBTU/H	Flue Gas Recirculation	7.81	TPY	BACT-PSD
*TX-0663	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	5/23/2012 Act	09/30/14	Heaters	30	MMBTU/H	Flue Gas Recirculation	0		BACT-PSD
*TX-0663	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	5/23/2012 Act	09/30/14	Heaters	8	MMBTU/H	Flue Gas recirculation	0		BACT-PSD
*TX-[illegible]	SONORA GAS PLANT	UPTON	TX	104150 PSDTX1316	4/14/2015 Act	05/08/15	Heater	10	MMBTU/H	low-NOx burners	0.01	LB/MMBTU	BACT-PSD
*TX-[illegible]	SONORA GAS PLANT	UPTON	TX	104150 PSDTX1316	4/14/2015 Act	05/08/15	2 heaters	3	MMBTU/H		0.1	LB/MMBTU	BACT-PSD
*TX-[illegible]	PH ROBINSON ELECTRIC GENERATING STATION	GALVESTON	TX	108[illegible] PSDTX1[illegible]	[illegible]/30/2014 Act	05/05/16	fuel gas heater	10	MMBTU/H		0.1	LB/MMBTU	BACT-PSD
*TX-[illegible]	ANTELOPE ELK ENERGY CENTER	HALE	TX	[illegible] PSDTX1[illegible]	4/22/2014 Act	05/04/16	heater	5.5	MMBTU/H		0.036	LB/MMBTU	BACT-PSD
*TX-[illegible]	INDECK WHARTON ENERGY CENTER	WHARTON	TX	111724 PSDTX1374	7/02/2015 Act	05/09/16	heater	5	MMBTU/H		0.1	LB/MMBTU	BACT-PSD
*TX-[illegible]	RAMSEY GAS PLANT	REEVES	TX	1 AND PSDTX1302	3/21/2013 Act	08/03/15	Hot Oil Heaters and Regeneration Heaters	60	MMBTU/H	low NOx burners	0.041	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	GASIFICATION PREHEATER 2	21	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	GASIFICATION PREHEATER 3	21	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	GASIFICATION PREHEATER 4	21	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	GASIFICATION PREHEATER 5	21	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	REACTIVATION HEATER	12.45	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	HST REACTOR CHARGE HEATER	2.32	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	3/04/2009 Act	04/28/09	GASIFICATION PREHEATER 1	21	MMBTU/H	LOW NOX BURNERS	0.05	LB/MMBTU	BACT-PSD
WY-[illegible]	ECHO SPRINGS GAS PLANT	CARBON	WY	MD-7[illegible]57	4/01/2009 Act	04/10/09	HOT OIL HEATER 136	80	MMBTU/H	LOW NOX BURNERS WITH FLUE GAS RECIRCULATION	0.01	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP06)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP07)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP08)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP09)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP10)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12636	8/28/2012 Act	05/29/15	Inlet Air Heater (TP11)	16.1	MMBTU/H	Ultra Low NOx Burners	0.012	LB/MMBTU	BACT-PSD

Source: EPA RBLC, queried May 2016

169920060

Table C-13. RBLC Database CO Emissions Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLCID	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT 1		CASE
*AK-0083	KENAI NITROGEN OPERATIONS	KENAI	AK	AQ0083CPT06	01/06/15	06/29/16	Startup Heater	101	MMBTU/H	Limited Use (500 hr/yr)	0.082	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACES (LA43, LA44)	83.4	MMBTU each		0.08	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED PASSIVE ANNEALING FURNACE (LU41)	37.2	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POIN	140	MMBTU/H		0.075	LB/T	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POIN	140	MMBTU/H		0.075	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POIN	140	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	0095-0001 THRU [illegible]	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACE (LA?)	71	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
AL-0231	NUCOR DECATUR LLC	MORGAN	AL	712-0037	06/12/07	08/31/09	GALVANIZING LINE FURNACE	90.7	MMBTU/H		0.084	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12[illegible]	10/09/15	09/14/16	TWO HARDENING FURNACES	4.13	LB/MMBTU	GCP	0		BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12[illegible]	10/09/15	09/14/16	ANNEALING FURNACE	8.5	MMBTU/H	GCP	0		BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12[illegible]	10/09/15	09/14/16	TWO HEAT TREAT FURNACES	21.45	MMBTU/H	GCP	0.03	LB/MMBTU	BACT-PSD
AR-0098	NUCOR STEEL, ARKANSAS	MISSISSIPPI	AR	1139-AOP-R6	04/03/06	06/26/12	ANNEALING FURNACES (SN-6)	4.8	LB/MMBTU	GOOD COMBUSTION PRACTICE	1.5	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-02	07/11/10	01/10/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR	50	PPMVD	BACT-PSD
FL-0285	PROGRESS BARTOW POWER PLANT	PINELLAS	FL	103 AND 1030011-[illegible]	01/26/07	08/12/09	ONE 3 MM BTU/HR GASEOUS-FUELED PROCESS HEATERS	3	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
*IA-0120	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN CO	WOODBURY	IA	12-219	07/12/13	07/06/16	Startup Heater	54.8	MMBTU/H	good operating practices & use of natural gas	0.0194	LB/MMBTU	BACT-PSD
*IA-0107	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/16	dew point heater	13.32	mmBtu/hr		0.043	LB/MMBTU	BACT-PSD
LA-0204	PLAQUEMINE PVC PLANT	IBERVILLE	LA	PSD-LA-709(M-1)	02/27/08	06/09/09	CRACKING FURNACES A-D	90	MMBTU/H EA	GOOD COMBUSTION PRACTICES AND USE OF NATU	0.084	LB/MMBTU	BACT-PSD
LA-0220	SHINTECH PLAQUEMINE PLANT 3	IBERVILLE	LA	PSD-LA-731	07/10/08	04/20/09	COT122-COT125 - FOUR VCM CRACKING FURNACES	90	MMBTU/H	GOOD COMBUSTION PRACTICES	0.066	LB/MMBTU	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA 742	06/22/09	05/17/10	SHIFT REACTOR STARTUP HEATER	34.2	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	2.82	LB/H	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA 742	06/22/09	05/17/10	GASIFIER STARTUP PREHEATER BURNERS (5)	35	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	2.89	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	PRIMARY REFORMER FURNACE (101-B)	958.1	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	49.16	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	AMMONIA START-UP HEATER (102-B)	39.4	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	2.87	LB/H	BACT-PSD
MD-0036	DOMINION	CALVERT	MD	CPCN 9055	01/10/05	05/07/07	FUEL GAS PROCESS HEATER			GOOD COMBUSTION PRACTICES	143	PPMVD	BACT-PSD
MD-0040	CPV ST CHARLES	CHARLES	MD	CPCN CASE NO. 917[illegible]	11/12/08	07/20/09	HEATER	1.7	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 918[illegible]	04/23/14	08/18/16	FUEL GAS HEATER	9.5	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	CPCN CASE NO. 932[illegible]	04/08/14	08/19/16	DEW POINT HEATER	5	MMBTU/H	USE OF EFFICIENT DESIGN OF THE HEATER, EXCLU	0.083	LB/MMBTU	BACT-PSD
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE. NO. 93[illegible]	11/13/15	08/12/16	FUEL GAS HEATER	13.8	MMBTU/H	GOOD COMBUSTION PRACTICES	0.021	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-12	07/25/13	05/04/16	FG-HEATERS: 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Efficient combustion	0.11	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-12	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/H each	12	heat input eac	Efficient combustion	0.11	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel pre-heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.41	LB/H	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	09/07/07	10/10/08	PROCESS HEATERS	409	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	09/07/07	10/10/08	SMALL BOILERS & HEATERS(<100 MMBTU/H)	99	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
*MS-0092	EMBERCLEAR GTL MS	ADAMS	MS	0040-00025	05/08/14	01/13/15	11 MMBtu/hr methanol-to-gasoline regeneration heater, equipped with lo	11	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
*MS-0092	EMBERCLEAR GTL MS	ADAMS	MS	0040-00025	05/08/14	01/13/15	Two 12 MMBtu/hr reactor heaters, equipped with low-NOx burners	12	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
NE-0043	NATUREWORKS, LLC	WASHINGTON	NE	CP07-0018	04/29/08	05/11/09	HOT OIL HEATER	75	MMBTU/H	GOOD COMBUSTION PRACTICES	0		BACT-PSD
NV-0047	NELLIS AIR FORCE BASE	CLARK	NV	319	02/26/09	10/21/09	BOILERS/HEATERS - NATURAL GAS FIRED			FLUE GAS RECIRCULATION	0.037	LB/MMBTU	Other Case-by-Case
NV-0047	NELLIS AIR FORCE BASE	CLARK	NV	319	02/26/09	10/21/09	BOILERS/HEATERS - DIESEL OIL-FIRED			GOOD COMBUSTION PRACTICE	0.036	LB/MMBTU	Other Case-by-Case
NV-0050	MGM MIRAGE	CLARK	NV	875	11/30/09	09/15/10	WATER HEATERS - UNITS WH037 AND WH038 AT NEW YORK - NEW YORK	2	MMBTU/H	LIMITING THE FUEL TO NATURAL GAS ONLY AND G	0.035	LB/MMBTU	LAER
*OH-0358	REPUBLIC STEEL	LORAIN	OH	P0109[illegible]	07/18/12	05/04/16	Electric Arc Furnace	150	T/H	Direct Shell Evacuation Control system with adjust	2	LB/T	BACT-PSD
*OH-0355	GENERAL ELECTRIC AVIATION, EVENDALE PLANT	HAMILTON	OH	P0117[illegible]	05/07/15	05/04/16	4 Indirect-Fired Air Preheaters	0			0.15	LB/MMBTU	N/A
OK-0128	MID AMERICAN STEEL ROLLING MILL	MARSHALL	OK	[illegible]	06/06/08	12/17/10	Electric Arc Furnaces	90	tons per furnace	Use cleaned scrap	3	LB/T SCRAP	BACT-PSD
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1)PSD	01/23/09	07/18/10	FUEL GAS HEATER (H2O BATH)	18.8	MMBTU/H		0.08	LB/H	N/A
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	08/30/11	Nitric Acid Preheater No. 1 (EU 401, EUG 4)	10	MMBTU/H	good combustion practices	1.45	LB/H	BACT-PSD
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	08/30/11	Nitric Acid Preheater No2 (EU 402, EUG 4)	20	mmbtu/h	good combustion	1.49	LB/H	BACT-PSD
OK-0135	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	02/15/10	NITRIC ACID PREHEATERS #1, #2, AND #4	20	MMBTU/H	GOOD COMBUSTION PRACTICES.	1.65	LB/H	BACT-PSD
OK-0130	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	02/09/09	02/18/10	H-9 NEW NO. 4 CTU VACUUM HEATER	45	MMBTU/H	ULTRA-LOW NOX BURNERS; GOOD COMBUSTION P	3.8	LB/H	BACT-PSD
OK-0130	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	02/09/09	02/18/10	H-4 NEW NO. 4 CTU CRUDE HEATER	175	MMBTU/H	ULTRA-LOW NOX BURNERS; GOOD COMBUSTION P	5	LB/H	BACT-PSD
OK-0130	PONCA CITY REFINERY	KAY	OK	2007-042-C PSD	02/09/09	02/18/10	H-5 NEW NO. 1 CTU TAR STRIPPER HEATER	98	MMBTU/H	ULTRA-LOW NOX BURNERS; GOOD COMBUSTION P	3.92	LB/H	BACT-PSD
*OK-0153	ROSE VALLEY PLANT	WOODS	OK	2012-1595-C PSD	03/01/13	06/19/16	REGENERATION HEATERS	3.61	MMBTU/H	GOOD COMBUSTION PRACTICES.	0.0824	LB/MMBTU	BACT-PSD
*OK-0153	ROSE VALLEY PLANT	WOODS	OK	2012-1595-C PSD	03/01/13	06/19/16	HOT OIL HEATER	17.4	MMBTU/H	Efficient design and combustion.	0.0824	LB/MMBTU	BACT-PSD
PA-0262	CARPENTER TECH CORP	BERKS	PA	06-05007D	10/01/07	12/27/10	REHEATING FURNACES (8)			COMBUSTION CONTROL	2.96	LB/H	Other Case-by-Case
PA-0262	CARPENTER TECH CORP	BERKS	PA	06-05007D	10/01/07	12/27/10	ANNEALING FURNACES (6)				2.2	LB/H	Other Case-by-Case
*PA-0288	[illegible] HOLLOW LINE PIPE ASSOC LLC/[illegible]	[illegible]	PA	[illegible]	12/17/13	05/04/16	Fuel Preheater	6.5	MMBTU/H		0.08	LB/MMBTU	N/A
SC-0113	NUCOR STEEL - BERKELEY	BERKELEY	SC	0420-0060-DO	05/05/08	10/26/11	TUNNEL FURNACE BURNERS	14	MMBTU/H	NATURAL GAS COMBUSTION WITH GOOD COMBU	0.084	LB/MMBTU	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	NATURAL GAS SPACE HEATERS - 34 UNITS (ID 18)	28.89	MMBTU/H		1.07	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	134 MILLION BTU/HR WOOD FIRED FURNACE #1	134	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	134 MILLION BTU/HR WOOD FIRED FURNACE #2	134	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	POLLUTION PREVENTION OF CO EMISSIONS WILL	6	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	ROTARY FLAKE DRYER #1	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	ROTARY FLAKE DRYER #2	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/19/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	134 MILLION BTU/HR WOOD FIRED FURNACE #2	134	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	197 MILLION BTU/HR WOOD FIRED FURNACE	197	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED	6	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	ROTARY FLAKE DRYER #1	75000	OVEN DRY/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	ROTARY FLAKE DRYER #2	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	NATURAL GAS SPACE HEATERS - 34 UNITS (ID 17)	28.89	MMBTU/H		1.07	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/19/12	134 MILLION BTU/HR WOOD FIRED FURNACE #1	134	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	302.11	LB/H	BACT-PSD
TX-0541	TRISTAR GAS PROCESS FACILITY	HENDERSON COUNTY	TX	[illegible]	07/11/08	08/?/09	BOTTOM HEATERS (2)	15	MMBTU/H		1.95	LB/H	BACT-PSD
*TX-0694	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]	05/16/14	05/12/15	Heaters	45	MMBTU/H	clean fuel and good combustion practices	50	PPM	BACT-PSD
*TX-0694	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]	05/16/14	05/12/15	heaters (5)	34.5	MMBTU/H	clean fuel and good combustion practices	50	PPM	BACT-PSD
*TX-0683	JACKSON COUNTY GAS PLANT	JACKSON	TX	[illegible]	05/25/12	05/16/14	Heaters	17	MMBTU/H	Good Combustion Practices	6		BACT-PSD
*TX-0683	JACKSON COUNTY GAS PLANT	JACKSON	TX	[illegible]	05/25/12	05/16/14	Heaters	48	MMBTU/H	Good combustion practices	17.96	LB/H	BACT-PSD
*TX-0683	JACKSON COUNTY GAS PLANT	JACKSON	TX	[illegible]	05/25/12	05/16/14	Heaters	18	MMBTU/H	Good combustion Practices	6		BACT-PSD

Table C-13. RBLC Database CO Distillate Cases Boiler & Heaters (>100 MMBtu/hr)

STATE	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	PLANT DETERMINATION DATE	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT 1		CAT
*TX-0881	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSD-TX-1206	09/20/12	09/20/12	Heaters	3	MMBTU/H	Good combustion practices	0		BACT-PSD
*TX-0888	SONORA GAS PLANT	UPTON	TX	PSD-TX-1110	06/14/13	06/20/13	Heater	19	MMBTU/H		100	PPMVD	BACT-PSD
*TX-0888	SONORA GAS PLANT	UPTON	TX	PSD-TX-1110	06/14/13	06/20/13	2 Heaters	3	MMBTU/H		100	PPMVD	BACT-PSD
*TX-0887	MB ROBINSON ELECTRIC GENERATING STATION	GALVESTON	TX	PSD-TX-1348	04/16/14	04/16/14	fuel gas heater	18	MMBTU/H		0.054	LB/MMBTU	BACT-PSD
*TX-0871	ANTELOPE ELK ENERGY CENTER	HALL	TX	PSD-TX-1354	04/17/14	05/04/14	heater	3.5	MMBTU/H		0.08	LB/MMBTU	BACT-PSD
*TX-0874	PITCHER MOUNTAIN ENERGY CENTER	WHARTON	TX	PSD-TX-1374	05/02/15	05/08/15	heater	3	MMBTU/H		0.04	LB/MMBTU	BACT-PSD
*TX-0753	BAMETT GAS PLANT	MITCHELL	TX	PSD-TX-1372	04/21/15	05/05/15	Hot Oil Heaters and Regeneration Heaters	80	MMBTU/H	Good combustion practices and Firing of residue gas	14	PPMVD @ 3% O	BACT-PSD
*TX-0772	MIDAMERICAN PETROLEUM TRANSLOAD TERMINAL	CRANE	TX	PSD-TX-1288	11/06/13	12/12/13	Commercial/Institutional-Size Boilers/Furnaces	40	MMBTU/H	Good combustion practice to ensure complete com	30	PMVD @ 3% O	BACT-PSD
*TX-0772	MIDAMERICAN PETROLEUM TRANSLOAD TERMINAL	CRANE	TX	PSD-TX-1288	11/06/13	12/12/13	Commercial/Institutional-Size Boilers/Furnaces	96.7	MMBTU/H	Good combustion practice to ensure complete com	30	PMVD @ 3% O	BACT-PSD
*TX-0772	MIDAMERICAN PETROLEUM TRANSLOAD TERMINAL	CRANE	TX	PSD-TX-1288	11/06/13	12/12/13	Commercial/Institutional-Size Boilers/Furnaces	33.5	MMBTU/H	Good combustion practice to ensure complete com	30	PMVD @ 3% O	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	GASIFICATION PREHEATER 7	21	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	GASIFICATION PREHEATER 8	21	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	GASIFICATION PREHEATER 4	21	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	GASIFICATION PREHEATER 9	21	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	BLACK START GENERATOR 1	2989	HP	LIMITED OPERATING HOURS (250 HR/YR)	2.4	G/HP-H	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	BLACK START GENERATOR 2	2989	HP	LIMITED OPERATING HOURS (250 HR/YR)	2.4	G/HP-H	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	BLACK START GENERATOR 3	2989	HP	LIMITED OPERATING HOURS (250 HR/YR)	2.4	G/HP-H	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	REGENERATION HEATER	23.45	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	HOT REACTOR CHARGE HEATER	2.22	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0004	MIDDLE FORK GAS PLANT	CARBON	WV	CT-5673	01/04/09	04/20/09	GASIFICATION PREHEATER 1	21	MMBTU/H	GOOD COMBUSTION PRACTICES	0.08	LB/MMBTU	BACT-PSD
WV-0007	KING SPRINGS GAS PLANT	CARBON	WV	MD-7217	04/01/09	04/16/09	HOT OIL HEATER 130	84	MMBTU/H	GOOD COMBUSTION PRACTICES	0.02	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP06)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP07)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP08)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP09)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP10)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD
*WV-0078	CHEYENNE PRAIRIE GENERATING STATION	LARAMIE	WY	CT-12916	06/18/13	05/29/13	Inlet Air Heater (EP11)	10.1	MMBTU/H	good combustion practices	0.08	LB/MMBTU	BACT-PSD

Source: EPA RBLC, queried May 2015

16092060

160620050

Table C-14. RBLC Database VOC Emissions Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLCID	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT 1		CASE
AK-0083	KENAI NITROGEN OPERATIONS	KENAI	AK	AQ0083CPT06	01/06/15	07/19/16	Startup Heater	101	MMBTU/H	Limited use (200 hr/yr)	0.0054	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACES (LA01, LA02)	21.4	MMBTU each		0.0055	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED PASSIVE ANNEALING FURNACE (BO41)	27.3	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINT	160	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINT	199	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINT	160	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACE (535)	91	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
AL-0231	NUCOR DECATUR LLC	MORGAN	AL	712-0037	06/12/07	08/31/09	GALVANIZING LINE FURNACE	68.7	MMBTU/H		0.0055	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/15	06/14/16	TWO HARDENING FURNACES	4.11	LB/MMBTU	GCP	0.005	LB/MMBTU	BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/15	06/14/16	ANNEALING FURNACE	8.3	MMBTU/H	GCP	0		BACT-PSD
*AL-0307	ALLOYS PLANT	COLBERT	AL	701-0007-X121-X12	10/09/15	06/14/16	TWO HEAT TREAT FURNACES	25.45	MMBTU/H	GCP	0.005	LB/MMBTU	BACT-PSD
AR-0090	NUCOR STEEL, ARKANSAS	MISSISSIPPI	AR	1139-AOP-R6	06/03/09	04/26/12	ANNEALING FURNACES (SN-43)	4.8	LB/MMBTU	GOOD COMBUSTION PRACTICE	0.1	LB/H	BACT-PSD
FL-0285	PROGRESS BARTOW POWER PLANT	PINELLAS	FL	103 AND PSD-FL-...	01/26/07	08/27/08	TWO 9 MM BTU/HR (EACH) GAS-FIRED PROCESS HEATERS	3	MMBTU/H		2	LB/MM SCF	BACT-PSD
IA-0102	DAVENPORT WORKS	SCOTT	IA	11-A-322	07/01/12	10/11/12	Pusher Preheat Furnace	60	MMBTU/h	The company is required to limit the amount of oil...	0		BACT-PSD
IA-0102	DAVENPORT WORKS	SCOTT	IA	11-A-322	07/01/12	10/11/12	Annealing Furnace	12	MMBTU/h	The company is required to limit the amount of oil...	0		BACT-PSD
IA-0102	DAVENPORT WORKS	SCOTT	IA	11-A-322	07/01/12	10/11/12	Bill Line; Continuous Heat Treat Line	27.4	MMBTU/h	The company is required to limit the amount of oil...	0		BACT-PSD
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN	WOODBURY	IA	PN 13-037	07/12/13	05/04/16	Startup Heater	58.8	MMBTU/H	good operating practices & use of natural gas	0.0014	LB/MMBTU	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	PRIMARY REFORMER FURNACE (103-B)	1042	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	0.19	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	AMMONIA START-UP HEATER (102-B)	33.4	MM BTU/HR	GOOD COMBUSTION PRACTICES, PROPER DESIGN	0.38	LB/H	BACT-PSD
MD-0036	DOMINION	CALVERT	MD	CPCN 9015	06/16/06	05/07/07	FUEL GAS PROCESS HEATER			GOOD COMBUSTION PRACTICES	141	PPMVD	LAER
MD-0040	CPV ST CHARLES	CHARLES	MD	PSC CASE NO. 912	11/12/08	02/29/09	HEATER	1.7	MMBTU/H		0.005	LB/MMBTU	LAER
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/19/16	FUEL GAS HEATER	9.5	MMBTU/H	EXCLUSIVE USE OF NATURAL GAS AND GOOD COM	0.005	LB/MMBTU	LAER
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	PSC CASE NO. 932	04/08/14	03/15/16	DEW POINT HEATER	5	MMBTU/H	USE OF EFFICIENT DESIGN OF THE HEATER, EXCLUS	0.005	LB/MMBTU	LAER
*MD-0045	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE. NO. 933	11/13/15	05/13/16	FUEL GAS HEATER	13.0	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GA	0.0054	LB/MMBTU	LAER
*MI-0405	BAY COMPRESSOR STATION	MACOMB	MI	206-08	10/14/10	08/28/14	Pipeline heaters	10	MMBTU/H		0.0	LB/H	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-12	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Efficient combustion; natural gas fuel.	0.017	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-12	07/25/13	05/04/16	FG-FUELHTRS. 2 natural gas fuel heaters, 12 MMBTU/H each	12	heat input eac	Efficient combustion, natural gas fuel.	0.008	LB/MMBTU	BACT-PSD
*MI-0412	HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel pre-heater (EUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.01	LB/H	BACT-PSD
*MS-0091	EMBERCLEAR GTL MS	ADAMS	MS	0040-00075	05/08/14	01/15/15	13 MMBtu/hr methanol-to-gasoline regeneration heater, equipped with low	13	MMBTU/H		0		BACT-PSD
*MS-0092	EMBERCLEAR GTL MS	ADAMS	MS	0040-00075	05/08/14	01/15/15	Two 13 MMBtu/hr reactor heaters, equipped with low-NOx burners	13	MMBTU/H		0		BACT-PSD
NY-0047	[illegible] AIR FORCE BASE	CLAY	NY	314	07/16/09	10/21/09	BOILERS/HEATERS - NATURAL GAS-FIRED			FLUE GAS RECIRCULATION	0.0052	LB/MMBTU	Other Case-by-Case
NY-0047	[illegible] AIR FORCE BASE	CLAY	NY	314	02/26/09	10/21/09	BOILERS/HEATERS - DIESEL OIL-FIRED			GOOD COMBUSTION PRACTICE	0.0054	LB/MMBTU	Other Case-by-Case
NY-0050	[illegible]	CLAY	NY	[illegible]	11/26/09	03/18/10	WATER HEATERS - UNITS HY017 AND HY018 AT NEW YORK - NEW YORK	2	MMBTU/H	LIMITING THE FUEL TO NATURAL GAS ONLY AND G	0.0054	LB/MMBTU	Other Case-by-Case
*OH-0???	REPUBLIC STEEL	LORAIN	OH	P0109?91	07/18/12	05/04/16	Electric Arc Furnace	190	T/H	Scrap management and Direct Shell Evacuation Co	0.1	LB/T	BACT-PSD
*OH-0???	GENERAL ELECTRIC AVIATION, EVENDALE PLANT	HAMILTON	OH	P0113??	05/07/13	05/04/16	4 Indirect-Fired Air Preheaters	0			0.005	LB/MMBTU	N/A
OK-0128	MID AMERICAN STEEL ROLLING MILL	MARSHALL	OK	2007-078-C(M-1) PSD	09/08/08	12/17/10	Electric Arc Furnaces	50	ton per turned	cleaned scrap	0.3	LB/T SCRAP	BACT-PSD
OK-0129	CHOUTEAU POWER PLANT	MAYES	OK	2007-115-C(M-1)PSD	01/23/09	03/18/10	FUEL GAS HEATER (WBD BATH)	18.8	MMBTU/H		0.1	LB/H	BACT-PSD
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	08/30/11	Nitric Acid Preheaters No. 1 (EU 401, EUG 4)	20	MMBTU/H	good combustion	0.11	LB/H	BACT-PSD
OK-0135	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	03/18/10	NITRIC ACID PREHEATERS #2, #3, AND #4	20	MMBTU/H		0.11	LB/H	BACT-PSD
*OK-0164	MIDWEST CITY AIR DEPOT	OKLAHOMA	OK	2009-394-C(M-7)PSD	01/08/15	02/01/16	Heaters/Boilers	0	MMBTU/H	2. Good Combustion Practices w/emission rate	7.1	TONS PER YEAR	BACT-PSD
PA-0263	CARPENTER TECH CORP	BERKS	PA	06-05007B	10/01/07	12/27/10	REHEATING FURNACES (9)			COMBUSTION CONTROL	0.28	LB/H	Other Case-by-Case
PA-0263	CARPENTER TECH CORP	BERKS	PA	06-05007B	10/01/07	12/27/10	ANNEALING FURNACES (4)				0.2	LB/H	Other Case-by-Case
*PA-0298	[illegible]	BERKS	PA	06-05??A	12/17/13	05/04/16	Fuel Preheater	6.5	MMBTU/H		0.01	LB/MMBTU	OTHER CASE-BY-CASE
SC-0112	NUCOR STEEL - BERKELEY	BERKELEY	SC	0420-0060-BD	05/05/08	10/20/11	TUNNEL FURNACE BURNERS	50	MMBTU/H	NATURAL GAS COMBUSTION WITH GOOD COMBUST	0.0055	LB/MMBTU	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	NATURAL GAS SPACE HEATERS - 34 UNITS (ID 18)	28.86	MMBTU/H		0.11	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	REGENERATIVE THERMAL OXIDIZERS (RTOS) WITH	116.79	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTOS) WITH	116.79	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	GOOD COMBUSTION PRACTICES WILL BE USED AS	0.29	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	ROTARY FLAKE DRYER #1	95000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	ROTARY FLAKE DRYER #2	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0180-0020-CB	11/25/08	10/16/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	197 MILLION BTU/HR WOOD FIRED FURNACE	197	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	GOOD COMBUSTION PRACTICES WILL BE USED AS	0.29	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #1	75000	OVEN DRY/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #2	95000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	ROTARY FINES DRYER	75000	LB/H OVEN DR	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	NATURAL GAS SPACE HEATERS - 34 UNITS (ID 17)	28.86	MMBTU/H		0.11	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	STORAGE TANKS	0			0.16	LB/H	BACT-PSD
SC-0115	GP CLARENDON LP	CLARENDON	SC	0680-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	REGENERATIVE THERMAL OXIDATION (RTO) WITH	116.79	LB/H	BACT-PSD
TX-0???	TEXSTAR GAS PROCESS FACILITY	HENDERSON COUNTY	TX	O-TX5MS AND [illegible]	07/11/06	04/28/03	BOTTOM HEATERS (2)	15	MMBTU/H		0.09	LB/H	BACT-PSD
*TX-0???	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]	05/16/14	05/12/16	Heaters	45	MMBTU/H	clean fuel and good combustion practices	0.06	T/YR	BACT-PSD
*TX-0???	GAS TO GASOLINE PLANT	JEFFERSON	TX	[illegible]	05/16/14	05/12/16	Heaters (5)	34.5	MMBTU/H	clean fuel and good combustion practices	1.44	T/YR	BACT-PSD
*TX-0???	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	05/25/12	08/30/16	Heaters	17	MMBTU/H	Good combustion practices	0		BACT-PSD
*TX-0???	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	05/25/12	08/30/16	Heaters	48	MMBTU/H	Good combustion practices	0		BACT-PSD
*TX-0???	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	05/25/12	08/30/16	Heaters	10	MMBTU/H	Good combustion practices	0		BACT-PSD
*TX-0???	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1294	05/25/12	08/30/16	Heaters	3	MMBTU/H	Good combustion practice	0		BACT-PSD
*TX-0771	[illegible] PETROLEUM TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/15	12/22/15	Commercial/Institutional-Size Boilers/Furnaces	48	MMBTU/H	Good combustion practice to ensure complete com	0.04	T/YR	BACT-PSD
*TX-0772	[illegible] PETROLEUM TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/15	12/22/15	Commercial/Institutional-Size Boilers/Furnaces	95.2	MMBTU/H	Good combustion practice to ensure complete com	3.42	T/YR	BACT-PSD
*TX-0773	[illegible] PETROLEUM TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/15	12/22/15	Commercial/Institutional-Size Boilers/Furnaces	11	MMBTU/H	Good combustion practice to ensure complete com	0.8	T/YR	BACT-PSD
WY-0066	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	03/04/09	04/29/09	BLACK START GENERATOR 1	2905	HP	LIMITED OPERATING HOURS (250 HR/YR)	0.4	G/HP-H	BACT-PSD
WY-0066	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	03/04/09	04/29/09	BLACK START GENERATOR 2	2905	HP	LIMITED OPERATING HOURS (250 HR/YR)	0.4	G/HP-H	BACT-PSD
WY-0066	MEDICINE BOW IGL PLANT	CARBON	WY	CT-5873	03/04/09	04/29/09	BLACK START GENERATOR 3	2905	HP	LIMITED OPERATING HOURS (250 HR/YR)	0.4	G/HP-H	BACT-PSD
WY-0067	ECHO SPRINGS GAS PLANT	CARBON	WY	MD-7617	04/01/08	04/26/09	HOT OIL HEATER ES1	84	MMBTU/H	GOOD COMBUSTION PRACTICES	0.02	LB/MMBTU	BACT-PSD

Source: EPA RBLC, queried May 2018

160920090

Table C-15. RBLC Database PM Emissions Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLC ID	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT 1		BASIS
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/13	Sigma Thermal Auxiliary Heater (1)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/13	Sigma Thermal Auxiliary Heater (2)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0071	INTERNATIONAL STATION POWER PLANT	MUNICIPALITY OF ANCHORAGE	AK	AQ0164CPT01	12/20/10	03/27/13	Sigma Thermal Auxiliary Heater (3)	12.5	MMBTU/H	Good Combustion Practices	7.6	LB/MMSCF	BACT-PSD
AK-0083	KENAI NITROGEN OPERATIONS	USA	AK	AQ0083CPT06	01/06/15	02/19/16	Startup Heater	101	MMBTU/H	Limited Use (200 hr/yr)	0.0074	LB/MMBTU	BACT-PSD
AK-0083	KENAI NITROGEN OPERATIONS	USA	AK	AQ0083CPT06	01/06/15	02/19/16	Startup Heater	101	MMBTU/H		0.0074	LB/MMBTU	BACT-PSD
AK-0083	KENAI NITROGEN OPERATIONS	USA	AK	AQ0083CPT06	01/06/15	02/19/16	Startup Heater	101	MMBTU/H	Limited Use (200 hr/yr)	0.0074	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACES (LAC1, LAC4)	23.4	MMBTU each		0.0076	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED PASSIVE ANNEALING FURNACE (CO41)	27.2	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	180	MMBTU/H	WET SCRUBBERS & CYCLONE	0.0044	GR/DSCF	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	180	MMBTU/H	WET SCRUBBERS & CYCLONE	0.0044	GR/DSCF	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	189	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	189	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	186	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED REHEAT FURNACE (LA21) (MULTIPLE EMISSION POINTS)	189	MMBTU/H	BAGHOUSE	0.005	GR/DSCF	BACT-PSD
AL-0230	THYSSENKRUPP STEEL AND STAINLESS USA, LLC	MOBILE	AL	503-8091 THRU 8	08/17/07	11/15/13	NATURAL GAS-FIRED BATCH ANNEALING FURNACE (535)	80	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AL-0211	NUCOR DECATUR LLC	MORGAN	AL	712-0037	09/12/07	08/21/08	GALVANIZING LINE FURNACE	86.7	MMBTU/H		0.0076	LB/MMBTU	BACT-PSD
AR-0090	NUCOR STEEL, ARKANSAS	MISSISSIPPI	AR	1139-AOP-R6	04/03/06	04/26/11	ANNEALING FURNACES (SN-01)	4.8	LB/MMBTU	GOOD COMBUSTION PRACTICE	0.3	LB/H	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/10/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR, USE P	0.2	NH3 PLS 100 D	BACT-PSD
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	SAN BERNARDINO	CA	SE 07-01	03/11/10	01/10/14	AUXILIARY HEATER	40	MMBTU/H	OPERATIONAL RESTRICTION OF 1000 HR/YR	0.2	NH3 PLS 100 D	BACT-PSD
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN	WOODBURY	IA	PN 13-037	07/12/13	05/04/16	Startup Heater	58.8	MMBTU/H	good operating practices and use of natural gas	0.0024	LB/MMBTU	BACT-PSD
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN	WOODBURY	IA	PN 13-037	07/12/13	05/04/16	Startup Heater	58.8	MMBTU/H	good operating practices & use of natural gas	0.0024	LB/MMBTU	BACT-PSD
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN	WOODBURY	IA	PN 13-037	07/12/13	05/04/16	Startup Heater	58.8	MMBTU/H	good operating practices & use of natural gas	0.0024	LB/MMBTU	BACT-PSD
*IA-0127	MARSHALLTOWN GENERATING STATION	MARSHALL	IA	13-A-499-P	04/14/14	05/04/16	dew point heater	13.82	mmBtu/hr		0.008	LB/MMBTU	BACT-PSD
LA-0229	SHINTECH PLAQUEMINE PLANT 3	IBERVILLE	LA	PSD-LA-731	07/30/08	04/20/09	TCT122 & CT125 - FOUR VCM CRACKING FURNACES	90	MMBTU/H	GOOD COMBUSTION PRACTICES AND CLEAN BURN	0.007	LB/MMBTU	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA-742	06/22/09	05/27/13	SHIFT REACTOR STARTUP HEATER	84.2	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	0.31	LB/H	BACT-PSD
LA-0231	LAKE CHARLES GASIFICATION FACILITY	CALCASIEU	LA	PSD-LA-742	06/22/09	05/27/13	GASIFIER STARTUP PREHEATER BURNERS (5)	95	MMBTU/H	GOOD DESIGN AND PROPER OPERATION	0.01	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	11/29/10	07/06/11	EQT0027 - PACOL CHARGE HEATER H-301	87.8	MMBTU/H		0.64	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	11/29/10	07/06/11	EQT0028 - PACOL STARTUP HEATER H-302	21	MMBTU/H	No additional Control	0.21	LB/H	BACT-PSD
LA-0244	LAKE CHARLES CHEMICAL COMPLEX - LAB UNIT	CALCASIEU	LA	PSD-LA-791(M1)	11/29/10	07/06/11	EQT0029 - Hot Oil Heater H-601	170	MMBTU/H	No additional control	1.71	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	PRIMARY REFORMER FURNACE (101-B)	954.2	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	6.55	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	PRIMARY REFORMER FURNACE (101-B)	954.2	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	6.55	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	AMMONIA START UP HEATER (102-B)	59.4	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	0.51	LB/H	BACT-PSD
*LA-0272	AMMONIA PRODUCTION FACILITY	JEFFERSON	LA	PSD-LA-768	03/27/13	05/04/16	AMMONIA START-UP HEATER (102-B)	59.4	MM BTU/HR	GOOD COMBUSTION PRACTICES; PROPER DESIGN	0.51	LB/H	BACT-PSD
MD-0036	DOMINION	CALVERT	MD	CPCN 9071	03/10/08	05/07/09	FUEL GAS PROCESS HEATER			USE OF LINE QUALITY, LOW SULFUR NATURAL GAS	0.0074	LB/MMBTU	BACT-PSD
MD-0040	CPV ST CHARLES	CHARLES	MD	PCN CASE NO. 9129	11/12/08	02/20/09	HEATER	1.7	MMBTU/H		0.007	LB/MMBTU	BACT-PSD
MD-0040	CPV ST CHARLES	CHARLES	MD	PCN CASE NO. 9129	11/12/08	02/20/09	HEATER	1.7	MMBTU/H		0.007	LB/MMBTU	BACT-PSD
MD-0040	CPV ST CHARLES	CHARLES	MD	PCN CASE NO. 9129	11/12/08	02/20/09	HEATER	1.7	MMBTU/H		0.007	LB/MMBTU	LAER
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/14/16	FUEL GAS HEATER	9.5	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOO	0.007	LB/MMBTU	BACT-PSD
*MD-0041	CPV ST. CHARLES	CHARLES	MD	PSC CASE NO. 9280	04/23/14	03/14/16	FUEL GAS HEATER	9.5	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOO	0.007	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	PCN CASE NO. 9327	04/08/14	03/16/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GA	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	PCN CASE NO. 9327	04/08/14	03/16/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GA	0.0075	LB/MMBTU	BACT-PSD
*MD-0042	WILDCAT POINT GENERATION FACILITY	CECIL	MD	PCN CASE NO. 9327	04/08/14	03/16/16	DEW POINT HEATER	5	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GA	0.0075	LB/MMBTU	BACT-PSD
*MD-0043	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	05/13/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOO	0.0075	LB/MMBTU	BACT-PSD
*MD-0043	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	05/13/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOO	0.0075	LB/MMBTU	BACT-PSD
*MD-0043	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE NO. 9330	11/13/15	05/13/16	FUEL GAS HEATER	13.8	MMBTU/H	USE OF PIPELINE QUALITY NATURAL GAS AND GOO	0.0075	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Efficient combustion; natural gas fuel.	0.01	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Efficient combustion; natural gas fuel	0.01	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-PEAKERS: 2 natural gas fired simple cycle combustion turbines	171	MMBTU/H	Efficient combustion; natural gas fuel	0.01	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/h each	12	heat input eac	Efficient combustion; natural gas fuel	0.007	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/H each	12	heat input eac	Efficient combustion; natural gas fuel.	0.007	LB/MMBTU	BACT-PSD
*MI-0410	THETFORD GENERATING STATION	GENESEE	MI	191-13	07/25/13	05/04/16	FG-FUELHTRS: 2 natural gas fuel heaters, 12 MMBTU/h each	12	heat input eac	Efficient combustion, natural gas fuel.	0.0019	LB/MMBTU	BACT-PSD
*MI-0412	LAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel pre-heater (FUFUELHTR)	3.7	MMBTU/H	Good combustion practices.	0.007	LB/MMBTU	BACT-PSD
*MI-0412	LAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel pre-heater (FUFUELHTR)	3.7	MMBTU/H	Good combustion practices	0.0075	LB/MMBTU	BACT-PSD
*MI-0412	LAND BOARD OF PUBLIC WORKS - EAST 5TH ST	OTTAWA	MI	107-13	12/04/13	05/05/16	Fuel pre-heater (FUFUELHTR)	3.7	MMBTU/H	Good combustion practices.	0.0075	LB/MMBTU	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	09/07/07	10/30/08	PROCESS HEATERS	406	MMBTU/H		0.015	LB/MMBTU	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	09/07/07	10/30/08	PROCESS HEATERS	406	MMBTU/H		0.015	LB/MMBTU	BACT-PSD
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	ITASCA	MN	06100067-001	09/07/07	10/30/08	SMALL BOILERS & HEATERS(LE 100 MMBTU/H)	99	MMBTU/H		0.0075	GR/DSCF	BACT-PSD
*MO-0082	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	12 MMBtu/hr methanol-to-gasoline regeneration heater, equipped with low-NOx bur	12	MMBTU/H		0		BACT-PSD
*MS-0093	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	12 MMBtu/hr methanol-to-gasoline regeneration heater, equipped with low-NOx bur	12	MMBTU/H		0		BACT-PSD
*MS-0093	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	12 MMBtu/hr methanol to gasoline regeneration heater, equipped with low-NOx bur	12	MMBTU/H		0		BACT-PSD
*MS-0093	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	Two 12 MMBtu/hr reactor heaters, equipped with low-NOx burners	12	MMBTU/H		0		BACT-PSD
*MS-0093	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	Two 12 MMBtu/hr reactor heaters, equipped with low-NOx burners	12	MMBTU/H		0		BACT-PSD
*MS-0093	CHEMICAL AB GTL, MS	ADAMS	MS	0040-00055	05/08/14	01/15/15	Two 12 MMBtu/hr reactor heaters, equipped with low-NOx burners	12	MMBTU/H		0		BACT-PSD
NV-0047	NELLIS AIR FORCE BASE	CLARK	NV	314	02/26/08	10/21/08	BOILERS/HEATERS - NATURAL GAS-FIRED			FLUE GAS RECIRCULATION	0.0077	LB/MMBTU	Other Case-by-Case
NV-0050	MGM MIRAGE	CLARK	NV	825	11/30/09	03/15/10	WATER HEATERS - UNITS HY017 AND HY018 AT NEW YORK - NEW YORK	2	MMBTU/H	LIMITING THE FUEL TO NATURAL GAS ONLY AND G	0.0075	LB/MMBTU	Other Case-by-Case
*OH-0355	CENTRAL ELECTRIC AVIATION, EVENDALE PLANT	HAMILTON	OH	P0112127	05/07/15	05/04/16	4 Indirect-Fired Air Preheaters	0			0.007	LB/MMBTU	N/A
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	08/30/11	Nitric Acid Preheaters No. 1 (EU 401, EU 4)	28	MMBTU/H	Natural gas combustion	0.13	LB/H	
OK-0134	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	08/30/11	Nitric Acid Preheaters No. 1 (EU 401, EU 4)	28	MMBTU/H	Natural gas combustion	0.13	LB/H	BACT-PSD
OK-0135	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	02/18/10	NITRIC ACID PREHEATERS #1, #2, AND #4	28	MMBTU/H		0.15	LB/H	BACT-PSD
OK-0135	PRYOR PLANT CHEMICAL	MAYES	OK	2008-100-C PSD	02/23/09	02/18/10	NITRIC ACID PREHEATERS #1, #2, AND #4	28	MMBTU/H		0.15	LB/H	BACT-PSD
*PA-0296	515 HOLLOW ENERGY ASSOC LLC/CONTINUUM	BERKS	PA	06-05110A	12/17/13	05/04/16	Fuel Preheater	8.5	MMBTU/H		0.007	LB/MMBTU	Other Case-by-Case
SC-0112	NUCOR STEEL - BERKELEY	BERKELEY	SC	0420-0060-DO	05/05/08	10/30/13	TUNNEL FURNACE BURNERS	54	MMBTU/H	NATURAL GAS COMBUSTION WITH GOOD COMBUS	0.0076	LB/MMBTU	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	NATURAL GAS SPACE HEATERS - 14 UNITS (NO 18)	30.99	MMBTU/H		0.15	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	NATURAL GAS SPACE HEATERS - 14 UNITS (NO 18)	30.99	MMBTU/H		0.15	LB/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	314 MILLION BTU/HR WOOD FIRED FURNACE #1	314	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	[illegible]	LB/H	BACT-PSD

Table C-13. RBLC Database PM Emissions Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

STATE	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE CITE/CONTACTED FOR CITATION	PROCESS NAME	THROUGHPUT		CONTROL METHOD	PM	PM EMISSION LIMIT 1	BACT
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	SOURCES WILL BE TO A COMMON STACK WITH THE E	34.99	18/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H		0.54	18/H	BACT-PSD
SC-0114	GP ALLENDALE LP	ALLENDALE	SC	0160-0020-CB	11/25/08	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H		0.54	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	197 MILLION BTU/HR WOOD FIRED FURNACE	197	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	197 MILLION BTU/HR WOOD FIRED FURNACE	197	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	GOOD COMBUSTION PRACTICES WILL BE UTILIZED	0.54	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	75 MILLION BTU/HR BACKUP THERMAL OIL HEATER	75	MMBTU/H	GOOD COMBUSTION PRACTICES WILL BE UTILIZED	0.54	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #1	25000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #1	25000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #2	25000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER #2	25000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER	75000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	ROTARY FLAKE DRYER	75000	DRY LB DRY/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	NATURAL GAS SPACE HEATERS - 24 UNITS (EU 17)	20.89	MMBTU/H		0.13	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	NATURAL GAS SPACE HEATERS - 24 UNITS (EU 17)	20.89	MMBTU/H		0.13	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #1	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
SC-0115	GP CLAIRMOON LP	CLAIRMOON	SC	0080-0046-CB	02/10/09	10/16/12	334 MILLION BTU/HR WOOD FIRED FURNACE #2	334	MMBTU/H	WET ELECTROSTATIC PRECIPITATORS	34.99	18/H	BACT-PSD
TX-0901	TEXSTAR GAS PROCESS FACILITY	HENDERSON COUNTY	TX	9-TX STATE AND EP	07/11/09	09/19/09	BOTTOM HEATERS (2)	13	MMBTU/H		0.13	18/H	BACT-PSD
*TX-0056	GAS TO GASOLINE PLANT	JEFFERSON	TX	DTX1340 AND PSD	05/16/14	05/12/16	Heaters	45	MMBTU/H	Clean fuel and good combustion practices	0.01	T/YR	BACT-PSD
*TX-0056	GAS TO GASOLINE PLANT	JEFFERSON	TX	DTX1340 AND PSD	05/16/14	05/12/16	Heaters	45	MMBTU/H	Clean fuel and good combustion practices	0.01	T/YR	BACT-PSD
*TX-0056	GAS TO GASOLINE PLANT	JEFFERSON	TX	DTX1340 AND PSD	05/16/14	05/12/16	Heaters (5)	21.3	MMBTU/H	Clean fuel and good combustion practices	0.00	T/YR	BACT-PSD
*TX-0056	GAS TO GASOLINE PLANT	JEFFERSON	TX	DTX1340 AND PSD	05/16/14	05/12/16	Heaters (5)	24.8	MMBTU/H	Clean fuel and good combustion practices	0.00	T/YR	BACT-PSD
*TX-0081	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1264	07/25/12	09/30/14	Heaters	17	MMBTU/H	Good combustion practices and fuel selection	0		BACT-PSD
*TX-0081	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1264	07/25/12	09/30/14	Heaters	46	MMBTU/H	Good Combustion Practices	0		BACT-PSD
*TX-0081	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1264	07/25/12	09/30/14	Heaters	18	MMBTU/H	Good combustion practices and fuel selection	0		BACT-PSD
*TX-0081	JACKSON COUNTY GAS PLANT	JACKSON	TX	PSDTX1264	07/25/12	09/30/14	Heaters	8	MMBTU/H	Good combustion practices and fuel selection	0		BACT-PSD
*TX-0081	H. ROBINSON ELECTRICAL GENERATING STATION	GALVESTON	TX	AGN 162 PSDTX1344	07/25/14	07/08/15	Fuel gas heater	18	MMBTU/H		0		BACT-PSD
*TX-0094	INDEEC WHARTON ENERGY CENTER	WHARTON	TX	121734 PSDTX1374	02/02/15	08/08/15	Heater	8	MMBTU/H		0		BACT-PSD
*TX-0772	BEAUMONT PETROLEUM TRANSLOAD TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/11	12/12/13	Commercial/Institutional-Dry Boilers/Furnaces	46	MMBTU/H	Good combustion practice to ensure complete com	3.21	T/YR	BACT-PSD
*TX-0772	BEAUMONT PETROLEUM TRANSLOAD TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/11	12/12/13	Commercial/Institutional-Dry Boilers/Furnaces	46	MMBTU/H	Good combustion practice to ensure complete com	3.21	T/YR	BACT-PSD
*TX-0772	BEAUMONT PETROLEUM TRANSLOAD TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/11	12/12/13	Commercial/Institutional-Dry Boilers/Furnaces	99.7	MMBTU/H	Use of gaseous fuel with efficient combustion.	7.46	T/YR	BACT-PSD
*TX-0772	BEAUMONT PETROLEUM TRANSLOAD TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/11	12/12/13	Commercial/Institutional-Dry Boilers/Furnaces	13.3	MMBTU/H	Good combustion practice to ensure complete com	0.4	T/YR	BACT-PSD
*TX-0772	BEAUMONT PETROLEUM TRANSLOAD TERMINAL	ORANGE	TX	GHGPSDTX108 AND	11/06/11	12/12/13	Commercial/Institutional-Dry Boilers/Furnaces	13.3	MMBTU/H	Good combustion practice to ensure complete com	4	T/YR	BACT-PSD

Source: EPA RBLC queried May 2016

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Table C-10. RBLC Database H_2SO_4 Emissions Query Results - Small Boilers & Heaters (<100 MMBtu/hr)

RBLID	FACILITY NAME	FACILITY COUNTY	STATE	PERMIT NUMBER	PERMIT ISSUANCE DATE	DATE DETERMINATION/ LAST UPDATED	PROCESS NAME	THROUGHPUT		CONTROL METHOD	EMISSION LIMIT		DATE
*MO-0092	WILDCAT POINT GENERATION FACILITY	CEDA	MO	CPCN CASE NO. 9127	04/08/14	05/18/16	DEW POINT HEATER	5	MMBTU/H	USE OF EFFICIENT DESIGN OF THE HEATER, EXCLUSIVE	0.0005	LB/MMBTU	BACT-PSD
*MO-0065	MATTAWOMAN ENERGY CENTER	PRINCE GEORGE'S	MD	PSC CASE. NO. 9330	11/19/13	03/15/16	FUEL GAS HEATER	18.8	MMBTU/H	EXCLUSIVE USE OF PIPELINE QUALITY NATURAL GAS	0.004	LB/MMBTU	BACT-PSD
*PA-0296	CRYO HOLLOW ENERGY ASSOC LLC/CENTELLA/NP	BERKS	PA	06-05150A	12/17/13	03/04/16	Fuel Preheater	8.5	MMBTU/H		0.001	LB/MMBTU	OTHER CASE-BY-CASE

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APPENDIX D

PLOT PLAN

FACILITIES LEGEND
TERMINAL POINTS
GENERAL LEGEND
NOTES
NOT TO BE USED
FOR CONSTRUCTION

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APPENDIX E

AIR DISPERSION MODELING FILES

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APPENDIX F

BACKGROUND EMISSIONS INVENTORY

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APPENDIX G

AIR QUALITY IMPACTS, CONTOUR MAP