

June xx, 2018

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Ms. Anne Idsal, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200 (6RA)
Dallas, Texas 75202-2733

Subject: Oklahoma's SO₂ Modeled Source Annual Report Required by 40 CFR Part 51, Subpart BB, Data Requirements for Characterizing Air Quality for the Primary SO₂ NAAQS

Dear Administrator Idsal:

The Oklahoma Department of Environmental Quality (ODEQ), as the air agency responsible for implementation of the 2010 SO₂ National Ambient Air Quality Standards (NAAQS) in Oklahoma, has previously submitted the list of sources in Oklahoma subject to the SO₂ Data Requirements Rule (DRR). 40 CFR Part 51, Subpart BB. On July 12, 2016, EPA designated Choctaw County and Noble County as attainment/unclassifiable based on modeling submitted by ODEQ. 81 Fed. Reg. 45039. On January 9, 2018, EPA designated Kay, Le Flore, and Rogers Counties as attainment/unclassifiable based on modeling submitted by ODEQ. 83 Fed. Reg. 1098. These designations correspond to the following applicable sources subject to the DRR that are listed alphabetically by county:

EPA EIS ID	Company	Facility	County
8449511	WFEC	Hugo Generating Station	Choctaw
7420411	Continental Carbon	Ponca City Plant	Kay
8148711	AES Shady Point	Cogeneration Plant	Le Flore
8519411	OG&E	Sooner Generating Station	Noble
8212411	AEP/PSO	PSO Northeastern Power Station	Rogers

The purpose of this letter is to document the annual SO₂ emissions of these modeled sources and provide an assessment of the cause of any emissions increase, if applicable, from the previous year, per 40 CFR § 51.1205(b).

Annual SO₂ Emissions

Facility	Calendar Year		
	2012-2014 ¹	2016 ⁵	2017 ⁵
WFEC Hugo Generating Station	9,305 TPY ²	7,275 TPY	8,137 TPY
Continental Carbon Ponca City Plant	4,141 TPY ³	2,713 TPY	2,607 TPY
AES Shady Point Cogeneration Plant	3,379 TPY ³	1,909 TPY	1,946 TPY
OG&E Sooner Generating Station	14,780 TPY ²	11,194 TPY	9,356 TPY
AEP/PSO PSO Northeastern Power Station	16,957 TPY ³ 8,390 TPY ⁴	4,144 TPY	3,884 TPY

¹ Three year average of actual emissions used in modeling for the 2010 SO₂ 1-hour NAAQS designation.

² Based on modeling submitted September 18, 2015.

³ Based on modeling submitted January 13, 2017.

⁴ Potential to Emit (PTE) emissions used in modeling for the 2010 SO₂ 1-hour NAAQS designation submitted January 13, 2017.

⁵ Actual emissions as reported in the Annual Emission Inventory.

DEQ annually collects emissions inventory data from these sources. As shown in the table above and the attached plant summaries, actual emissions from 2016 and 2017 are less than the three-year average emissions from 2012 to 2014 that were used to model the facilities to demonstrate attainment with the 2010 SO₂ 1-hour NAAQS. Furthermore, annual SO₂ emissions from three of the five facilities have decreased from 2016 to 2017.

Two facilities' SO₂ emissions increased from 2016 to 2017. The first, WFEC-Hugo Generating Station had an increase in SO₂ emissions of 862 tons per year (TPY). The 11% increase in SO₂ emissions was associated with a 15% increase in operating hours and a 17% increase in throughput (tons of coal combusted) for its Electric Power Generation Unit #1. The minor increased emissions can reasonably be attributed to an increase in operation of the unit to meet increased electricity demand, which is expected to fluctuate from year to year.

The second facility, AES Shady Point-Cogeneration Plant, had a facility-wide 37 TPY (2%) increase in SO₂ emissions from 2016 to 2017. Boilers 1A and 1B had 6% and 7% (respectively) year-over-year increases in SO₂ emissions which were associated with 10% and 11% increases in operating hours, and while burning coal with corresponding 2% and 4% decreases in throughput (tons of coal combusted). The slight increase in emissions from units 1A and 1B is most likely due to fluctuations in the sulfur content of the coal and/or operating conditions of the fluidized

bed. Boilers 2A and 2B experienced slight decreases in SO₂ emissions – 3% for Boiler 2A and 4% for Boiler 2B – which offset some of the emissions increases from units 1A and 1B.

Please note that although the AEP/PSO-PSO Northeastern Power Station is included in the above tables, DEQ is not required to submit an annual report for this source per 40 CFR § 51.1205(c). In its January 13, 2017 submittal, DEQ demonstrated attainment with the 2010 SO₂ 1-hour NAAQS using both actual and allowable (PTE) emissions from the source. DEQ respectfully requests EPA's concurrence that PSO Northeastern Power Station requires no further annual reports pursuant to the DRR, per 40 CFR § 51.1205(c).

Pursuant to 40 CFR § 51.1205(b)(1) and based on the emissions information provided, ODEQ recommends no additional modeling or analysis of these sources at this time. It is reasonable to expect that emission units at these sources will experience slight fluctuations in emissions from year to year. In spite of those fluctuations, annual emissions for calendar year 2017 remain below the quantities modeled for the SO₂ NAAQS compliance demonstrations. In summary, the data reviewed indicate that the areas surrounding the applicable sources are in attainment of the 2010 SO₂ 1-hour NAAQS.

The content of this letter was made available for public inspection and comment on DEQ's website from May xx, 2018 through June xx, 2018, which was at least thirty days prior to submission to EPA. If you desire additional information, or you have any questions concerning this matter, please contact Ms. Cheryl E. Bradley, Data and Planning Manager, at 405-702-4157.

Sincerely,

Eddie Terrill, Director of Air Quality Division
Oklahoma Department of Environmental Quality

ec: COL Michael Teague, Secretary of Energy and Environment
Scott Thompson, Executive Director, Department of Environmental Quality
Guy Donaldson, Associate Director, Air Branch, EPA (6MM-A)
Carrie Paige, Air Planning Section, EPA (6MM-AB)
Dayana Medina, Air Planning Section, EPA (6MM-AA)

Attachments

1. 2016 Emissions Inventory Plant Summary for WFEC-Hugo
2. 2017 Emissions Inventory Plant Summary for WFEC-Hugo
3. 2016 Emissions Inventory Plant Summary for Continental Carbon
4. 2017 Emissions Inventory Plant Summary for Continental Carbon
5. 2016 Emissions Inventory Plant Summary for AES Shady Point
6. 2017 Emissions Inventory Plant Summary for AES Shady Point
7. 2016 Emissions Inventory Plant Summary for OG&E-Sooner
8. 2017 Emissions Inventory Plant Summary for OG&E-Sooner
9. 2016 Emissions Inventory Plant Summary for AEP/PSO-Northeastern
10. 2017 Emissions Inventory Plant Summary for AEP/PSO-Northeastern

ATTACHMENT 1

DRAFT

2016TEAM ID
1700**WESTERN FARMERS ELEC COOP**

Wednesday, May 09, 2018

HUGO GNRTNG STA

Updated: 3/29/2017

Address: 970N 4335 Rd
FORT TOWSON OK 74735**Status:** Active
Class: Major
SIC: 4911**Directions:**
3 mi W of Ft. Towson on Hwy 70
and 12 mi E of Hugo on Hwy 70.**Responsible Official****Contact:** GILLELAND, GARY**Phone:** (405) 247-4301**Fax:****County:** CHOCTAW**Sub:****Section:** 21**Latitude:** 34.01633**Town:** 6S**Longitude:** -95.32188**Range:** 19E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	337.477	630080
* Nitrogen Oxides - NOx	2301.41	
* PM-10 (All Particulate Matter <10	121.915	
* PM-2.5 (All Particulate Matter <2.5	119.483	
* Sulfur Oxides - SOx	7275.473	
* Total VOC	40.516	
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.391	78591
Acetaldehyde	0.384	75070
Acrolein	0.195	107028
Antimony and Antimony compounds	0.009	
Arsenic Compounds (inorganic Includ	0.005	
Benzene	0.876	71432
Benzyl chloride	0.472	100447
Beryllium and Beryllium compounds	0	
Bromomethane	0.108	74839
Cadmium and Cadmium compounds	0.001	
Carbon disulfide	0.088	75150
Chloroform	0.04	67663
Chloromethane	0.357	74873
Chromium	0.011	7440473
Cobalt and Cobalt compounds	0.016	
Cyanide and Cyanide compounds	1.684	
Diocetyl phthalate (DEHP)	0.049	117817
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.063	100414
Fluoride	0.004	16984488
Formaldehyde	0.166	50000
Hexane	0.045	110543
Hydrogen chloride	11.832	7647010
Hydrogen fluoride	4.234	7664393
Lead and Lead compounds	0.048	
Manganese compounds	0.011	
Mercury and Mercury compounds	0.013	
Methyl Hydrazine	0.115	60344
Methylene chloride	0.195	75092
Naphthalene	0.009	91203

Nickel and Nickel compounds	0.016	
Phosphorus (yellow or white)	0.001	7723140
POM (Polycyclic organic matter)	0.014	
Propionaldehyde	0.256	123386
Selenium and Selenium compounds	0.066	
Sulfuric acid	5.414	7664939
Toluene	0.163	108883
Xylenes (mixed isomers)	0	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Electric Power Generation Unit #1 - Coal	Operating	34.01472	-95.32102
2	Fuel Oil-Fired Auxiliary Boiler	Temporarily	34.01583	-95.32056
3	Storage Tank - P-19 Fuel Oil	Operating	34.01277	-95.32225
4	Open Coal Storage	Operating	34.01610	-95.32529
5	Ash 1 - Truck Loading and Unloading Bottom and Fly Ash	Operating	34.01469	-95.32028
6	Coal 1 - Railcar Unloading Rotary Dump	Operating	34.01469	-95.32028
7	Emergency Backup 630 hp Diesel Generator, P-22	Operating	34.01469	-95.32028
9	Ash 2 - Fly Ash Conveying/Storage, P-14	Operating	34.01633	-95.32188
10	Ash 3 - Fly Ash Silo Load Out , P-15	Operating	34.01633	-95.32188
11	Ash 5 - Bottom and Fly Ash - Reclaim, P-17	Operating	34.01633	-95.32188
12	Coal 2 - Conveying From Railcar, P-4	Operating	34.01633	-95.32188
13	Coal 3 - Crushing, P-5	Operating	34.01633	-95.32188
14	Coal 4 - Active Storage Pile - Load in by Conveyor, P-6	Operating	34.01633	-95.32188
15	Coal 5 - Active Storage Pile Load Out Under Pile Reclaim, P-7	Operating	34.01633	-95.32188
16	Coal 6 - Inactive Storage Pile Load in By Conveyor, P-8	Operating	34.01633	-95.32188
17	P-24 575 HP John Deere Diesel Generator	Operating	34.01633	-95.32188
18	P-25 575HP John Deere Diesel Generator	Operating	34.01633	-95.32188
19	1A Cooling Tower	Operating	34.01633	-95.32188
20	1B Cooling Tower	Operating	34.01633	-95.32188
21	Auxiliary Cooling Tower	Temporarily	34.01633	-95.32188
22	Storage Tank P-20 Gasoline	Operating	34.01633	-95.32188
23	Storage Tank P-21 Diesel	Operating	34.01633	-95.32188
24	Silo 1 Additive A (175 TPY) SPF-10	Operating	34.01633	-95.32188
25	Silo 2 Powdered Activated Carbon (920 TPY) SB-24	Operating	34.01633	-95.32188

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	216695.00	31.92	Gallons	6789	22	6	10100501	N
1	External Combustion Boilers, Ele	0.00	0.2	Gallons	0	0	0	10101302	N
1	External Combustion Boilers, Ele	1347507.00	280	Tons	6789	22	6	10100201	N
2	External Combustion Boilers, Ind	0.00	0	1000 Gallons	0	0	0	10200501	N
3	Chemical Evaporation, Petroleum	216695.00	24.74	Gallons	8760	24	7	40400414	N
3	Chemical Evaporation, Petroleum	216695.00	24.74	Gallons	8760	24	7	40400413	N
4	Industrial Processes, Mineral Prod	694113.00	79.02	Tons	8760	24	7	30501009	N
5	Industrial Processes, Mineral Prod	28114.00	3.2	Tons	8760	24	7	30510199	N
6	Industrial Processes, Mineral Prod	1352772.00	154	Tons	8760	24	7	30501011	N
7	Internal Combustion Engines, Ele	153.00	8.14	Gallons	19	1	1	20100107	N

9	Industrial Processes, Mineral Prod	49796.00	5.67	Tons	8760	24	7	30510199	N
10	Industrial Processes, Mineral Prod	43729.00	4.98	Tons	8760	24	7	30510199	N
11	Industrial Processes, Mineral Prod	4491.00	0.51	Tons	8760	24	7	30510199	N
12	Industrial Processes, Mineral Prod	1352772.00	154	Tons	8760	24	7	30501011	N
13	Industrial Processes, Mineral Prod	1415607.00	161.16	Tons	8760	24	7	30501010	N
14	Industrial Processes, Mineral Prod	68100.00	7.75	Tons	8760	24	7	30501011	N
15	Industrial Processes, Mineral Prod	282539.00	32.17	Tons	8760	24	7	30501011	N
16	Industrial Processes, Mineral Prod	212744.00	24.22	Tons	8760	24	7	30501011	N
17	Internal Combustion Engines, Ele	315.00	27.39	Gallons	12	1	1	20100107	N
18	Internal Combustion Engines, Ele	836.00	20.29	Gallons	41	1	1	20100107	N
19	Industrial Processes, Cooling Tow	38900.35	5.73	Million gallons	6789	22	6	38500110	N
20	Industrial Processes, Cooling Tow	38900.35	5.73	Million gallons	6789	24	7	38500110	N
21	Industrial Processes, Cooling Tow	0.00	0.72	Million gallons	0	24	7	38500110	N
22	Chemical Evaporation, Petroleum	9535.00	1.09	Gallons	8760	24	7	40400497	N
22	Chemical Evaporation, Petroleum	9535.00	1.09	Gallons	8760	24	7	40400498	N
23	Chemical Evaporation, Petroleum	28546.00	3.26	Gallons	8760	24	7	40400497	N
23	Chemical Evaporation, Petroleum	28546.00	3.26	Gallons	8760	24	7	40400498	N
24	Industrial Processes, Mineral Prod	44.40	0.005	Tons	8760	24	7	30510199	N
25	Industrial Processes, Mineral Prod	202.10	0.023	Tons	8760	24	7	30510199	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	7274.965	16404.1	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	* Nitrogen Oxides - NOx	2287.759	4498.85	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	* Carbon Monoxide	336.877	4689.81	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	* PM-2.5 (All Particulate Matter <2.5	74.113	223.65	EPA RM Stack Test	Electrostatic Pr	99.9	* Uncontrolled	
1	* PM-10 (All Particulate Matter <10	74.113	223.65	EPA RM Stack Test	Electrostatic Pr	99.9	* Uncontrolled	
1	* Total VOC	40.425	86.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	* Nitrogen Oxides - NOx	13.348	4498.85	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	Hydrogen chloride	11.82	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	
1	Sulfuric acid	5.403	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
1	Hydrogen fluoride	4.232	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	
1	Cyanide and Cyanide compounds	1.684	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Benzene	0.876	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	* Carbon Monoxide	0.542	4689.81	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	* Sulfur Oxides - SOx	0.501	16404.1	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	Benzyl chloride	0.472	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.391	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Acetaldehyde	0.384	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Chloromethane	0.357	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Propionaldehyde	0.256	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Methylene chloride	0.195	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Acrolein	0.195	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Toluene	0.162	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Formaldehyde	0.162	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Methyl Hydrazine	0.115	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Bromomethane	0.108	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Carbon disulfide	0.088	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	

1	Selenium and Selenium compounds	0.066	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0.063	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Diethyl phthalate (DEHP)	0.049	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0.048	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0.045	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloroform	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.027	86.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0.016	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0.016	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0.014	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0.013	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Sulfuric acid	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0.011	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0.011	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Antimony and Antimony compounds	0.009	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0.005	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Fluoride	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen fluoride	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Phosphorus (yellow or white)	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0	4689.81	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	* Sulfur Oxides - SOx	0	16404.1	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Phosphorus (yellow or white)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0	86.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0	223.65	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Lead and Lead compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0	223.65	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Antimony and Antimony compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Manganese compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0

1	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	0	4498.85	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Antimony and Antimony compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0	223.65	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Lead and Lead compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Naphthalene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0	6.68	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Cadmium and Cadmium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0	0.27	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0	99.68	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Antimony and Antimony compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Phosphorus (yellow or white)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.243	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0.351	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	0.096	0.62	AP-42 Factors	Dust Suppressi	95	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	0.142	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	0.033	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Total VOC	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

7	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	* Sulfur Oxides - SOx	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-10 (All Particulate Matter <10	0.622	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	
10	* PM-10 (All Particulate Matter <10	0.547	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	
11	* PM-10 (All Particulate Matter <10	0.056	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	
12	* PM-10 (All Particulate Matter <10	0.096	0.62	AP-42 Factors	Dust Suppressi	95	* Uncontrolled	
13	* PM-10 (All Particulate Matter <10	0.212	0.99	FIRE Data Factors	Dust Suppressi	95	* Uncontrolled	
14	* PM-10 (All Particulate Matter <10	0.096	3.47	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
15	* PM-10 (All Particulate Matter <10	0	0.04	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	
16	* PM-10 (All Particulate Matter <10	0.075	0.87	AP-42 Factors	Dust Suppressi	75	* Uncontrolled	
17	* Nitrogen Oxides - NOx	0.035	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
17	* Carbon Monoxide	0.005	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
17	* Total VOC	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
17	* PM-10 (All Particulate Matter <10	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
17	* Sulfur Oxides - SOx	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
17	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
17	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
17	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
17	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
17	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
17	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	* Nitrogen Oxides - NOx	0.126	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
18	* Carbon Monoxide	0.02	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
18	* Sulfur Oxides - SOx	0.004	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
18	* Total VOC	0.003	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
18	* PM-10 (All Particulate Matter <10	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
18	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
18	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
19	* PM-2.5 (All Particulate Matter <2.5	22.685	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
19	* PM-10 (All Particulate Matter <10	22.685	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
19	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
19	Sulfuric acid	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
20	* PM-2.5 (All Particulate Matter <2.5	22.685	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
20	* PM-10 (All Particulate Matter <10	22.685	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
20	Sulfuric acid	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
20	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
21	Sulfuric acid	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	

2016

TEAM ID
1700

WESTERN FARMERS ELEC COOP

Wednesday, May 09, 2018

HUGO GNRTNG STA

Updated: 3/29/2017

21	* PM-10 (All Particulate Matter <10	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
21	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
21	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	0.032	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	0.024	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
24	* PM-10 (All Particulate Matter <10	0.006	0	Permit Factors	Fabric Filter / B	99	* Uncontrolled	0
25	* PM-10 (All Particulate Matter <10	0.025	0	Permit Factors	Fabric Filter / B	99	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	10724	Electric Power Generation Unit #1 - Coal	500	26	260	1500000	0
2	10725	Fuel Oil-Fired Auxiliary Boiler	215	8	680	101288	0
3	10726	Storage Tank - #2 Dist Oil	0	0	0	0	48
4	10727	Open Coal Storage	0	0	0	0	61
5	30400	Fugitive	0	0	0	0	20
6	33337	Dust Collector 1	0	0	0	0	12
6	41436	Dust Collector 2	8	2.45	85	20000	0
7	38807	HU-G, P-22 Emergency Diesel Generator	17	1.2	770	10500	0
9	41424	Ash 2 - Silo Bin Vent Fan	150	1.1	85	3250	0
10	41425	Fly Ash Silo Bin Vent Fan	150	1.1	85	3250	0
11	41426	Fugitive	0	0	0	0	20
12	41629	Wet Collector 1	186	2.17	85	12000	0
13	41459	Dust Collector 6	0	0	0	0	12
14	41460	Stack Out Chute # 8	0	0	0	0	40
15	41461	Yard Reclaim Feeders 2, 3, and 4	0	0	0	0	2
16	41462	Yard Reclaim Feeder #1, and Stack-Out Chute #3	0	0	0	0	2
17	44144	P-24 Stack	14	0.5	918	2904	0
18	44147	P-25 Stack	10	0.5	918	2904	0
19	44149	1A Cooling Tower Stack	0	0	0	0	28
20	44151	1B Cooling Tower Stack	0	0	0	0	28
21	44153	Auxiliary Cooling Tower Stack	55	28	90	2558780	0
22	46174	Storage Tank Gasoline	0	0	0	0	11
23	47300	P-21 Storage Tank Diesel	0	0	0	0	35
24	118862	Silo 1 - Silo Bin	150	1.1	85	3250	0
25	119275	Silo 2 - Silo Bin	150	1.1	85	3250	0

ATTACHMENT 2

DRAFT

2017TEAM ID
1700**WESTERN FARMERS ELEC COOP**

Wednesday, May 09, 2018

HUGO GNRTNG STA

Updated: 3/30/2018

Address: 970N 4335 Rd
FORT TOWSON OK 74735**Status:** Active
Class: Major
SIC: 4911**Directions:**
3 mi W of Ft. Towson on Hwy 70
and 12 mi E of Hugo on Hwy 70.**Responsible Official****Contact:** GILLELAND, GARY**Phone:** (405) 247-4301**Fax:****County:** CHOCTAW**Sub:****Section:** 21**Latitude:** 34.01633**Town:** 6S**Longitude:** -95.32188**Range:** 19E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	406.822	630080
* Nitrogen Oxides - NOx	2652.849	
* PM-10 (All Particulate Matter <10	143.197	
* PM-2.5 (All Particulate Matter <2.5	140.531	
* Sulfur Oxides - SOx	8136.613	
* Total VOC	48.836	
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.471	78591
Acetaldehyde	0.463	75070
Acrolein	0.236	107028
Antimony and Antimony compounds	0.011	
Arsenic Compounds (inorganic Includ	0.007	
Benzene	1.056	71432
Benzyl chloride	0.569	100447
Beryllium and Beryllium compounds	0	
Bromomethane	0.13	74839
Cadmium and Cadmium compounds	0.002	
Carbon disulfide	0.106	75150
Chloroform	0.048	67663
Chloromethane	0.43	74873
Chromium	0.014	7440473
Cobalt and Cobalt compounds	0.019	
Cyanide and Cyanide compounds	2.031	
Diocetyl phthalate (DEHP)	0.059	117817
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.076	100414
Fluoride	0.005	16984488
Formaldehyde	0.199	50000
Hexane	0.054	110543
Hydrogen chloride	12.507	7647010
Hydrogen fluoride	5.219	7664393
Lead and Lead compounds	0.06	
Manganese compounds	0.014	
Mercury and Mercury compounds	0.013	
Methyl Hydrazine	0.138	60344
Methylene chloride	0.236	75092
Naphthalene	0.011	91203

Nickel and Nickel compounds	0.019	
Phosphorus (yellow or white)	0.001	7723140
POM (Polycyclic organic matter)	0.017	
Propionaldehyde	0.309	123386
Selenium and Selenium compounds	0.082	
Sulfuric acid	6.056	7664939
Toluene	0.196	108883
Xylenes (mixed isomers)	0	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Electric Power Generation Unit #1 - Coal	Operating	34.01472	-95.32102
2	Fuel Oil-Fired Auxiliary Boiler	Permanently	34.01583	-95.32056
3	Storage Tank - P-19 Fuel Oil	Operating	34.01277	-95.32225
4	Open Coal Storage	Operating	34.01610	-95.32529
5	Ash 1 - Truck Loading and Unloading Bottom and Fly Ash	Operating	34.01469	-95.32028
6	Coal 1 - Railcar Unloading Rotary Dump	Operating	34.01469	-95.32028
7	Emergency Backup 630 hp Diesel Generator, P-22	Operating	34.01469	-95.32028
9	Ash 2 - Fly Ash Conveying/Storage, P-14	Operating	34.01633	-95.32188
10	Ash 3 - Fly Ash Silo Load Out , P-15	Operating	34.01633	-95.32188
11	Ash 5 - Bottom and Fly Ash - Reclaim, P-17	Operating	34.01633	-95.32188
12	Coal 2 - Conveying From Railcar, P-4	Operating	34.01633	-95.32188
13	Coal 3 - Crushing, P-5	Operating	34.01633	-95.32188
14	Coal 4 - Active Storage Pile - Load in by Conveyor, P-6	Operating	34.01633	-95.32188
15	Coal 5 - Active Storage Pile Load Out Under Pile Reclaim, P-7	Operating	34.01633	-95.32188
16	Coal 6 - Inactive Storage Pile Load in By Conveyor, P-8	Operating	34.01633	-95.32188
17	P-24 575 HP John Deere Diesel Generator	Operating	34.01633	-95.32188
18	P-25 575HP John Deere Diesel Generator	Operating	34.01633	-95.32188
19	1A Cooling Tower	Operating	34.01633	-95.32188
20	1B Cooling Tower	Operating	34.01633	-95.32188
21	Auxiliary Cooling Tower	Operating	34.01633	-95.32188
22	Storage Tank P-20 Gasoline	Operating	34.01633	-95.32188
23	Storage Tank P-21 Diesel	Operating	34.01633	-95.32188
24	Silo 1 Additive A (175 TPY) SPF-10	Operating	34.01633	-95.32188
25	Silo 2 Powdered Activated Carbon (920 TPY) SB-24	Operating	34.01633	-95.32188

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	251612.00	31.41	Gallons	8010	22	7	10100501	N
1	External Combustion Boilers, Ele	1624506.00	280	Tons	8010	22	7	10100201	N
2	External Combustion Boilers, Ind	0.00	0	1000 Gallons	0	0	0	10200501	N
3	Chemical Evaporation, Petroleum	250046.00	28.54	Gallons	8760	24	7	40400414	N
3	Chemical Evaporation, Petroleum	250046.00	28.54	Gallons	8760	24	7	40400413	N
4	Industrial Processes, Mineral Prod	564221.00	64.23	Tons	8760	24	7	30501009	N
5	Industrial Processes, Mineral Prod	40734.00	4.64	Tons	8760	24	7	30510199	N
6	Industrial Processes, Mineral Prod	1270560.00	144.64	Tons	8760	24	7	30501011	N
7	Internal Combustion Engines, Ele	137.00	6.43	Gallons	21	1	1	20100107	N
9	Industrial Processes, Mineral Prod	59460.00	6.77	Tons	8760	24	7	30510199	N

10	Industrial Processes, Mineral Prod	49520.00	5.64	Tons	8760	24	7	30510199	N
11	Industrial Processes, Mineral Prod	2394.00	0.27	Tons	8760	24	7	30510199	N
12	Industrial Processes, Mineral Prod	1270560.00	144.64	Tons	8760	24	7	30501011	N
13	Industrial Processes, Mineral Prod	1672006.00	190.35	Tons	8760	24	7	30501010	N
14	Industrial Processes, Mineral Prod	47500.00	5.41	Tons	8760	24	7	30501011	N
15	Industrial Processes, Mineral Prod	536333.00	61.06	Tons	8760	24	7	30501011	N
16	Industrial Processes, Mineral Prod	135331.00	15.41	Tons	8760	24	7	30501011	N
17	Internal Combustion Engines, Ele	324.00	15.21	Gallons	21	1	1	20100107	N
18	Internal Combustion Engines, Ele	235.00	5.83	Gallons	40	1	1	20100107	N
19	Industrial Processes, Cooling Tow	45895.43	5.73	Million gallons	8010	22	7	38500110	N
20	Industrial Processes, Cooling Tow	45895.43	5.73	Million gallons	8010	24	7	38500110	N
21	Industrial Processes, Cooling Tow	6307.20	0.72	Million gallons	8760	22	7	38500110	N
22	Chemical Evaporation, Petroleum	10327.00	1.18	Gallons	8760	24	7	40400497	N
22	Chemical Evaporation, Petroleum	10327.00	1.18	Gallons	8760	24	7	40400498	N
23	Chemical Evaporation, Petroleum	49986.00	5.71	Gallons	8760	24	7	40400497	N
23	Chemical Evaporation, Petroleum	49986.00	5.71	Gallons	8760	24	7	40400498	N
24	Industrial Processes, Mineral Prod	34.77	0.004	Tons	8760	24	7	30510199	N
25	Industrial Processes, Mineral Prod	113.26	0.013	Tons	8760	24	7	30510199	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	8133.734	16404.1	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	2637.001	4498.85	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	406.127	4689.81	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	89.348	223.65	EPA RM Stack Test	Electrostatic Pr	99.9	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	89.348	223.65	EPA RM Stack Test	Electrostatic Pr	99.9	* Uncontrolled	0
1	* Total VOC	48.735	86.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	15.499	4498.85	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	12.493	0	EPA RM Stack Test	Dry Sorbent Inj	10	* Uncontrolled	0
1	Sulfuric acid	6.043	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen fluoride	5.217	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Sulfur Oxides - SOx	2.87	16404.1	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Cyanide and Cyanide compounds	2.031	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzene	1.056	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0.629	4689.81	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzyl chloride	0.569	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.471	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetaldehyde	0.463	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloromethane	0.43	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Propionaldehyde	0.309	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methylene chloride	0.236	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acrolein	0.236	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.195	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.195	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methyl Hydrazine	0.138	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Bromomethane	0.13	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Carbon disulfide	0.106	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0.082	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0

1	Ethylbenzene	0.076	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0.06	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Diethyl phthalate (DEHP)	0.059	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0.054	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloroform	0.048	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.032	86.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0.019	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0.019	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0.017	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0.014	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0.014	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	0.014	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0.013	0	Cont. Emissions Monit. D	Dry Sorbent Inj	10	* Uncontrolled	0
1	Antimony and Antimony compounds	0.011	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Sulfuric acid	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0.011	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0.007	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Fluoride	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0.002	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen fluoride	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Phosphorus (yellow or white)	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Antimony and Antimony compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0	223.65	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Nickel and Nickel compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0	223.65	AP-42 Factors	Electrostatic Pr	99.9	* Uncontrolled	0
1	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Phosphorus (yellow or white)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0	6.68	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Cadmium and Cadmium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

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TEAM ID
1700

WESTERN FARMERS ELEC COOP

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Updated: 3/30/2018

2	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0	99.68	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Naphthalene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0	0.27	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Antimony and Antimony compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	0	37.38	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.197	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0.509	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	0.09	0.62	AP-42 Factors	Dust Suppressi	95	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	0.161	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	0.037	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Total VOC	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* PM-2.5 (All Particulate Matter <2.5	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
9	* PM-10 (All Particulate Matter <10	0.743	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	0
10	* PM-10 (All Particulate Matter <10	0.619	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	0
11	* PM-10 (All Particulate Matter <10	0.03	0	Permit Factors	Fabric Filter / B	99.9	* Uncontrolled	0
12	* PM-10 (All Particulate Matter <10	0.09	0.62	AP-42 Factors	Dust Suppressi	95	* Uncontrolled	0
13	* PM-10 (All Particulate Matter <10	0.251	0.99	FIRE Data Factors	Dust Suppressi	95	* Uncontrolled	0
14	* PM-10 (All Particulate Matter <10	0.067	3.47	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
15	* PM-10 (All Particulate Matter <10	0.001	0.04	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	0
16	* PM-10 (All Particulate Matter <10	0.048	0.87	AP-42 Factors	Dust Suppressi	75	* Uncontrolled	0
17	* Nitrogen Oxides - NOx	0.065	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	* Carbon Monoxide	0.01	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0

17	* Total VOC	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	* Sulfur Oxides - SOx	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	* PM-10 (All Particulate Matter <10	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
17	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
17	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
17	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
17	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
17	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	* Nitrogen Oxides - NOx	0.123	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
18	* Carbon Monoxide	0.019	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
18	* Sulfur Oxides - SOx	0.004	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
18	* Total VOC	0.003	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
18	* PM-10 (All Particulate Matter <10	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
18	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	Xylenes (mixed isomers)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
18	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
19	* PM-2.5 (All Particulate Matter <2.5	24.808	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
19	* PM-10 (All Particulate Matter <10	24.808	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
19	Sulfuric acid	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
19	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
20	* PM-2.5 (All Particulate Matter <2.5	24.808	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
20	* PM-10 (All Particulate Matter <10	24.808	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
20	Sulfuric acid	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
20	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
21	* PM-10 (All Particulate Matter <10	1.562	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
21	* PM-2.5 (All Particulate Matter <2.5	1.562	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
21	Lead and Lead compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
21	Sulfuric acid	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	0.032	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	0.026	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	0.001	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
24	* PM-10 (All Particulate Matter <10	0.004	0	Permit Factors	Fabric Filter / B	99	* Uncontrolled	0
25	* PM-10 (All Particulate Matter <10	0.014	0	Permit Factors	Fabric Filter / B	99	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	10724	Electric Power Generation Unit #1 - Coal	500	26	260	1500000	0
2	10725	Fuel Oil-Fired Auxiliary Boiler	215	8	680	101288	0
3	10726	Storage Tank - #2 Dist Oil	0	0	0	0	48
4	10727	Open Coal Storage	0	0	0	0	61
5	30400	Fugitive	0	0	0	0	20
6	41436	Dust Collector 2	8	2.45	85	20000	0
6	33337	Dust Collector 1	0	0	0	0	12

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7	38807	HU-G, P-22 Emergency Diesel Generator	17	1.2	770	10500	0
9	41424	Ash 2 - Silo Bin Vent Fan	150	1.1	85	3250	0
10	41425	Fly Ash Silo Bin Vent Fan	150	1.1	85	3250	0
11	41426	Fugitive	0	0	0	0	20
12	41629	Wet Collector 1	186	2.17	85	12000	0
13	41459	Dust Collector 6	0	0	0	0	12
14	41460	Stack Out Chute # 8	0	0	0	0	40
15	41461	Yard Reclaim Feeders 2, 3, and 4	0	0	0	0	2
16	41462	Yard Reclaim Feeder #1, and Stack-Out Chute #3	0	0	0	0	2
17	44144	P-24 Stack	14	0.5	918	2904	0
18	44147	P-25 Stack	10	0.5	918	2904	0
19	44149	1A Cooling Tower Stack	0	0	0	0	28
20	44151	1B Cooling Tower Stack	0	0	0	0	28
21	44153	Auxiliary Cooling Tower Stack	55	28	90	2558780	0
22	46174	Storage Tank Gasoline	0	0	0	0	11
23	47300	P-21 Storage Tank Diesel	0	0	0	0	35
24	118862	Silo 1 - Silo Bin	150	1.1	85	3250	0
25	119275	Silo 2 - Silo Bin	150	1.1	85	3250	0

ATTACHMENT 3

DRAFT

2016TEAM ID
333**CONTINENTAL CARBON CO**
CARBON BLACK PRODUCTION FACILITY

Wednesday, May 09, 2018

Updated: 3/31/2017

Address: 1006 E OAKLAND AVE
PONCA CITY OK 74601**Status:** Active
Class: Major
SIC: 2895**Directions:**
1 MI S on Hwy 177 of Jct of Hwy
60 and Hwy 177.**Responsible Official****Contact:** BURTON, PHILLIP**Phone:** (580) 763-8111**Fax:** (580) 763-8150**County:** KAY**Sub:** NE/4**Section:** 10**Town:** 25N**Range:** 2E**Latitude:** 36.66616**Longitude:** -97.07163**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	298.486	630080
* Nitrogen Oxides - NOx	842.145	
* PM-10 (All Particulate Matter <10	149.283	
* PM-2.5 (All Particulate Matter <2.5	149.283	
* Sulfur Oxides - SOx	2712.511	
* Total VOC	21.311	
Carbon disulfide	0.979	75150
Carbonyl sulfide	0.04	463581
Cyanide and Cyanide compounds	0.077	
Hydrogen sulfide	1.986	7783064

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Boiler #1	Operating	36.66151	-97.06980
2	Boiler #2	Operating	36.66146	-97.06981
3	CLEAN-UP BAG FILTER #1	Operating	36.66135	-97.07057
4	CLEAN-UP BAG FILTER #2	Operating	36.66133	-97.07028
5	CLEAN-UP BAG FILTER #3	Operating	36.66128	-97.06929
6	CLEAN-UP BAG FILTER #4	Operating	36.66145	-97.06883
7	Shipping Dept Clean-up Bagfiller 1	Operating	36.66084	-97.06982
8	Thermal Oxidizer #1	Operating	36.66153	-97.07050
9	Thermal Oxidizer #2	Operating	36.66153	-97.07036
10	Thermal Oxidizer #3	Operating	36.66131	-97.06862
11	CB Storage Tanks	Operating	36.66199	-97.07041
12	Feed stock tank 65,000 Bbl	Operating	36.66068	-97.06893
14	Shipping Dept Clean-up Bagfiller 2	Operating	36.66133	-97.06980
15	Sealed Bin Clean Up Bag Filter 1	Operating	36.66616	-97.07163
16	Production Unit 1	Operating	36.66616	-97.07163
17	Production Unit 2	Operating	36.66616	-97.07163
18	Production Unit 3	Operating	36.66616	-97.07163
19	Production Unit 4	Operating	36.66616	-97.07163
20	Production Unit 1 - Transition Events	Operating	36.66616	-97.07163
21	Production Unit 2 - Transition Events	Operating	36.66616	-97.07163
22	Production Unit 3 - Transition Events	Operating	36.66616	-97.07163
23	Production Unit 4 - Transition Events	Operating	36.66616	-97.07163
24	EBF 4	Operating	36.66616	-97.07163
25	Sealed Bin Clean-Up Bagfilter #2	Operating	36.66616	-97.07163

CARBON BLACK PRODUCTION FACILITY

26	Transloading Clean-Up Bagfilter	Operating	36.66616	-97.07163
27	Dryer 11 Firebox	Operating	36.66616	-97.07163
28	Dryer 12 Firebox	Operating	36.66616	-97.07163
29	Dryer 21 Firebox	Operating	36.66616	-97.07163
30	Dryer 31 Firebox	Operating	36.66616	-97.07163
31	Dryer 32 Firebox	Operating	36.66616	-97.07163
32	Dryer 41 Firebox	Operating	36.66616	-97.07163
33	Reactor 11	Operating	36.66616	-97.07163
34	Reactor 12	Operating	36.66616	-97.07163
35	Reactor 21	Operating	36.66616	-97.07163
36	Reactor 31	Operating	36.66616	-97.07163
37	Reactor 32	Operating	36.66616	-97.07163
38	Reactor 41	Operating	36.66616	-97.07163
39	Waste Gas Combuster 11	Operating	36.66616	-97.07163
40	Waste Gas Combuster 12	Operating	36.66616	-97.07163
41	Waste Gas Combuster 21	Operating	36.66616	-97.07163
42	Waste Gas Combuster 31	Operating	36.66616	-97.07163
43	Waste Gas Combuster 32	Operating	36.66616	-97.07163
44	Waste Gas Combuster 41	Operating	36.66616	-97.07163
45	Emergency Generator 1 and 2	Operating	36.66616	-97.07163
46	Emergency Generator 3	Operating	36.66616	-97.07163
47	Emergency Generator 4	Operating	36.66616	-97.07163

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ind	18.78	0.002	Million standard cubic feet	8035	24	7	10200603	N
2	External Combustion Boilers, Ind	10.24	0.002	Million standard cubic feet	5967	24	7	10200603	N
3	Industrial Processes, Chemical M	27900.00	4.425	Tons	5143	24	7	30100504	N
4	Industrial Processes, Chemical M	19961.00	4.969	Tons	4017	24	7	30100504	N
5	Industrial Processes, Chemical M	27403.00	5.015	Tons	5464	24	7	30100504	N
6	Industrial Processes, Chemical M	52570.00	7.604	Tons	6913	24	7	30100504	N
7	Industrial Processes, Chemical M	130.00	0.043	Tons	3000	24	7	30100508	N
8	Industrial Processes, Chemical M	4.29	0.001	Million standard cubic feet	5143	24	7	30100502	N
9	Industrial Processes, Chemical M	0.37	0	Million standard cubic feet	5464	24	7	30100502	N
10	Industrial Processes, Chemical M	0.86	0	Million standard cubic feet	6913	24	7	30100502	N
11	Industrial Processes, Chemical M	78398.00	14.08	Tons	8760	24	7	30100599	N
12	Chemical Evaporation, Petroleum	28439476.00	5120	Gallons	8760	24	7	40400301	N
12	Chemical Evaporation, Petroleum	28439476.00	5120	Gallons	8760	24	7	40400302	N
14	Industrial Processes, Chemical M	211.51	0.071	Tons	3000	24	7	30100508	N
15	Industrial Processes, Chemical M	17.23	0.011	Tons	1500	23	7	30100504	N
16	Industrial Processes, Chemical M	6206884.00	1206.9	Gallons	5143	24	7	30100502	N
17	Industrial Processes, Chemical M	4440807.00	1105.53	Gallons	4017	24	7	30100502	N
18	Industrial Processes, Chemical M	6096418.00	1115.6	Gallons	5646	24	7	30100502	N
19	Industrial Processes, Chemical M	11695368.00	1691.68	Gallons	6913	24	7	30100502	N
20	Industrial Processes, Chemical M	141053.00	1808.4	Pounds	13	1	7	30100504	N
21	Industrial Processes, Chemical M	112639.00	1656.45	Pounds	11	1	7	30100504	N
22	Industrial Processes, Chemical M	86924.00	1671.61	Pounds	9	1	7	30100504	N

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23	Industrial Processes, Chemical M	167291.00	2534.71	Pounds	11	1	7	30100504	N
24	Industrial Processes, Chemical M	52570.68	7.6	Tons	6913	24	7	30100504	N
25	Industrial Processes, Chemical M	34461.00	22.97	Pounds	1500	24	7	30100504	N
26	Industrial Processes, Chemical M	34461.00	34.46	Pounds	1000	24	7	30100504	N
27	Industrial Processes, Chemical M	0.54	0	Million standard cubic feet	5143	24	7	30100504	N
28	Industrial Processes, Chemical M	0.39	0	Million standard cubic feet	5143	24	7	30100504	N
29	Industrial Processes, Chemical M	0.39	0.001	Million standard cubic feet	4017	24	7	30100504	N
30	Industrial Processes, Chemical M	0.69	0.001	Million standard cubic feet	5464	24	7	30100504	N
31	Industrial Processes, Chemical M	0.49	0.001	Million standard cubic feet	5464	24	7	30100504	N
32	Industrial Processes, Chemical M	1.77	0	Million standard cubic feet	6913	24	7	30100504	N
33	Industrial Processes, Chemical M	111.95	0.022	Million standard cubic feet	5143	24	7	30100504	N
34	Industrial Processes, Chemical M	114.64	0.022	Million standard cubic feet	5143	24	7	30100504	N
35	Industrial Processes, Chemical M	69.85	0.017	Million standard cubic feet	4017	24	7	30100504	N
36	Industrial Processes, Chemical M	130.93	0.024	Million standard cubic feet	5464	24	7	30100504	N
37	Industrial Processes, Chemical M	125.77	0.023	Million standard cubic feet	5464	24	7	30100504	N
38	Industrial Processes, Chemical M	328.53	0.048	Million standard cubic feet	6913	24	7	30100504	N
39	Industrial Processes, Chemical M	0.54	0.001	Million standard cubic feet	5143	24	7	30100502	N
40	Industrial Processes, Chemical M	0.39	0.001	Million standard cubic feet	5143	24	7	30100502	N
41	Industrial Processes, Chemical M	0.38	0.001	Million standard cubic feet	4017	24	7	30100502	N
42	Industrial Processes, Chemical M	0.69	0.001	Million standard cubic feet	5464	24	7	30100502	N
43	Industrial Processes, Chemical M	0.49	0.001	Million standard cubic feet	5464	24	7	30100502	N
44	Industrial Processes, Chemical M	1.77	0.001	Million standard cubic feet	6913	24	7	30100502	N
45	Internal Combustion Engines, Ind	2381.40	63	Horsepower-hours	38	1	1	20200253	N
46	Internal Combustion Engines, Ind	3351.60	63	Horsepower-hours	53	1	1	20200253	N
47	Internal Combustion Engines, Ind	5885.00	63	Horsepower-hours	54	1	1	20200253	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Nitrogen Oxides - NOx	0.94	2.62	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0.79	2.21	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0.07	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0.07	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.052	0.23	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Sulfur Oxides - SOx	0.006	0.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	0.52	2.62	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0.43	2.21	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.04	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0.04	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0.03	0.23	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0.003	0.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.334	0	Mass Balance	Fabric Filter / B	96	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	0.334	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.06	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.06	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	0.044	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0.044	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	0.31	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0

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6	* PM-10 (All Particulate Matter <10	0.31	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
7	* PM-2.5 (All Particulate Matter <2.5	0.13	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
7	* PM-10 (All Particulate Matter <10	0.13	4.2	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
8	* Nitrogen Oxides - NOx	0.215	1134	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Carbon Monoxide	0.18	1995	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* PM-2.5 (All Particulate Matter <2.5	0.016	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* PM-10 (All Particulate Matter <10	0.016	96	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Total VOC	0.012	69	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Sulfur Oxides - SOx	0.001	8089	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Carbon Monoxide	0.036	1307	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Nitrogen Oxides - NOx	0.019	597	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-10 (All Particulate Matter <10	0.001	44	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Total VOC	0.001	58	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Sulfur Oxides - SOx	0	3763	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Nitrogen Oxides - NOx	0.043	746	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Carbon Monoxide	0.036	1634	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* PM-10 (All Particulate Matter <10	0.003	55	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* PM-2.5 (All Particulate Matter <2.5	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Total VOC	0.002	73	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Sulfur Oxides - SOx	0	4704	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
11	* PM-10 (All Particulate Matter <10	0.359	26.49	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
11	* PM-2.5 (All Particulate Matter <2.5	0.359	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
12	* Total VOC	1.001	29.12	TANKS	* Uncontrolled	0	* Uncontrolled	
12	* Total VOC	0.385	29.12	TANKS	* Uncontrolled	0	* Uncontrolled	
14	* PM-2.5 (All Particulate Matter <2.5	0.212	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
14	* PM-10 (All Particulate Matter <10	0.212	4.2	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
15	* PM-2.5 (All Particulate Matter <2.5	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
15	* PM-10 (All Particulate Matter <10	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* Sulfur Oxides - SOx	652.058	8089	Mass Balance	Recuperative T	98	* Uncontrolled	
16	* Nitrogen Oxides - NOx	161.666	1134	Mass Balance	* Uncontrolled	0	* Uncontrolled	
16	* PM-10 (All Particulate Matter <10	24.54	96	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* PM-2.5 (All Particulate Matter <2.5	24.54	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* Carbon Monoxide	1.16	1995	Mass Balance	Recuperative T	98	* Uncontrolled	
16	* Total VOC	0.619	69	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Hydrogen sulfide	0.009	45.3	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Carbon disulfide	0.005	17.05	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Cyanide and Cyanide compounds	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
16	Carbonyl sulfide	0	0.16	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Sulfur Oxides - SOx	413.504	8089	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Nitrogen Oxides - NOx	115.665	1134	Mass Balance	* Uncontrolled	0	* Uncontrolled	
17	* PM-10 (All Particulate Matter <10	17.558	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
17	* PM-2.5 (All Particulate Matter <2.5	17.558	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
17	* Carbon Monoxide	0.595	1995	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Total VOC	0.417	69	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Hydrogen sulfide	0.01	45.3	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Carbon disulfide	0.002	17.05	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Carbonyl sulfide	0.001	0.16	Mass Balance	Recuperative T	98	* Uncontrolled	

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17	Cyanide and Cyanide compounds	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	* Sulfur Oxides - SOx	658.576	3763	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	* Nitrogen Oxides - NOx	182.169	597	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	* PM-10 (All Particulate Matter <10	31.583	44	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
18	* PM-2.5 (All Particulate Matter <2.5	31.583	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
18	* Carbon Monoxide	8.955	1307	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	* Total VOC	0.452	58	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Hydrogen sulfide	0.072	19.86	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Carbon disulfide	0.041	11.18	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Cyanide and Cyanide compounds	0.003	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	Carbonyl sulfide	0	0.24	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Sulfur Oxides - SOx	987.991	4704	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Nitrogen Oxides - NOx	290.223	746	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
19	* PM-10 (All Particulate Matter <10	66.206	55	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
19	* PM-2.5 (All Particulate Matter <2.5	66.206	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
19	* Carbon Monoxide	30.215	1634	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Total VOC	5.824	73	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Hydrogen sulfide	0.247	39.09	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Carbon disulfide	0.139	13.97	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Cyanide and Cyanide compounds	0.009	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
19	Carbonyl sulfide	0.003	0.29	Mass Balance	Recuperative T	98	* Uncontrolled	0
20	* Carbon Monoxide	54.241	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Total VOC	2.42	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Hydrogen sulfide	0.443	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Carbon disulfide	0.249	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Nitrogen Oxides - NOx	0.192	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* PM-2.5 (All Particulate Matter <2.5	0.032	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* PM-10 (All Particulate Matter <10	0.032	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Cyanide and Cyanide compounds	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Sulfur Oxides - SOx	0.013	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Carbonyl sulfide	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Carbon Monoxide	20.446	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Hydrogen sulfide	0.407	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Total VOC	0.32	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Carbon disulfide	0.094	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Sulfur Oxides - SOx	0.069	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Nitrogen Oxides - NOx	0.048	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* PM-10 (All Particulate Matter <10	0.029	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* PM-2.5 (All Particulate Matter <2.5	0.029	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Carbonyl sulfide	0.022	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Cyanide and Cyanide compounds	0.014	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Carbon Monoxide	33.425	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	1.492	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Hydrogen sulfide	0.273	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Carbon disulfide	0.154	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Nitrogen Oxides - NOx	0.118	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* PM-2.5 (All Particulate Matter <2.5	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* PM-10 (All Particulate Matter <10	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0

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22	Cyanide and Cyanide compounds	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Sulfur Oxides - SOx	0.008	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Carbonyl sulfide	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Carbon Monoxide	64.328	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	2.871	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Hydrogen sulfide	0.525	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Carbon disulfide	0.295	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Nitrogen Oxides - NOx	0.227	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* PM-10 (All Particulate Matter <10	0.038	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* PM-2.5 (All Particulate Matter <2.5	0.038	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Cyanide and Cyanide compounds	0.019	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Sulfur Oxides - SOx	0.016	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Carbonyl sulfide	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
24	* Carbon Monoxide	46.42	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* Nitrogen Oxides - NOx	30.812	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* Total VOC	2.866	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* PM-2.5 (All Particulate Matter <2.5	1.65	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* PM-10 (All Particulate Matter <10	1.65	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
25	* PM-10 (All Particulate Matter <10	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
25	* PM-2.5 (All Particulate Matter <2.5	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
26	* PM-2.5 (All Particulate Matter <2.5	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
26	* PM-10 (All Particulate Matter <10	0.017	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
27	* Nitrogen Oxides - NOx	1.617	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* PM-10 (All Particulate Matter <10	0.245	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* PM-2.5 (All Particulate Matter <2.5	0.245	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* Total VOC	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* Carbon Monoxide	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Nitrogen Oxides - NOx	1.617	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* PM-10 (All Particulate Matter <10	0.245	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* PM-2.5 (All Particulate Matter <2.5	0.245	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Total VOC	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Carbon Monoxide	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Nitrogen Oxides - NOx	2.313	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* PM-10 (All Particulate Matter <10	0.351	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* PM-2.5 (All Particulate Matter <2.5	0.351	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Total VOC	0.008	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Carbon Monoxide	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Nitrogen Oxides - NOx	1.821	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* PM-2.5 (All Particulate Matter <2.5	0.316	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* PM-10 (All Particulate Matter <10	0.316	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Total VOC	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Carbon Monoxide	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Nitrogen Oxides - NOx	1.821	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* PM-10 (All Particulate Matter <10	0.316	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* PM-2.5 (All Particulate Matter <2.5	0.316	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Carbon Monoxide	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Total VOC	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Nitrogen Oxides - NOx	5.802	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

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32	* PM-10 (All Particulate Matter <10	1.291	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* PM-2.5 (All Particulate Matter <2.5	1.291	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Total VOC	0.09	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Carbon Monoxide	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
33	* Nitrogen Oxides - NOx	5.597	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Carbon Monoxide	4.702	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* PM-10 (All Particulate Matter <10	0.425	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* PM-2.5 (All Particulate Matter <2.5	0.425	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Total VOC	0.308	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Sulfur Oxides - SOx	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Nitrogen Oxides - NOx	5.732	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Carbon Monoxide	4.815	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* PM-10 (All Particulate Matter <10	0.436	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* PM-2.5 (All Particulate Matter <2.5	0.436	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Total VOC	0.315	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Sulfur Oxides - SOx	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Nitrogen Oxides - NOx	3.492	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Carbon Monoxide	2.934	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Total VOC	0.192	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* PM-10 (All Particulate Matter <10	0.132	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* PM-2.5 (All Particulate Matter <2.5	0.132	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Sulfur Oxides - SOx	0.021	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Nitrogen Oxides - NOx	6.547	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Carbon Monoxide	5.499	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* PM-10 (All Particulate Matter <10	0.498	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* PM-2.5 (All Particulate Matter <2.5	0.498	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Total VOC	0.36	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Sulfur Oxides - SOx	0.039	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Nitrogen Oxides - NOx	6.289	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Carbon Monoxide	5.283	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* PM-2.5 (All Particulate Matter <2.5	0.478	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* PM-10 (All Particulate Matter <10	0.478	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Total VOC	0.346	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Sulfur Oxides - SOx	0.038	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Nitrogen Oxides - NOx	16.427	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Carbon Monoxide	13.798	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* PM-2.5 (All Particulate Matter <2.5	1.248	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* PM-10 (All Particulate Matter <10	1.248	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Total VOC	0.903	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Sulfur Oxides - SOx	0.099	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Nitrogen Oxides - NOx	0.027	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Carbon Monoxide	0.023	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* PM-10 (All Particulate Matter <10	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* PM-2.5 (All Particulate Matter <2.5	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Nitrogen Oxides - NOx	0.02	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Carbon Monoxide	0.016	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

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40	* PM-10 (All Particulate Matter <10	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Nitrogen Oxides - NOx	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Carbon Monoxide	0.016	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* PM-10 (All Particulate Matter <10	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Nitrogen Oxides - NOx	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Carbon Monoxide	0.029	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* PM-2.5 (All Particulate Matter <2.5	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* PM-10 (All Particulate Matter <10	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Total VOC	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Nitrogen Oxides - NOx	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Carbon Monoxide	0.021	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* PM-10 (All Particulate Matter <10	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* PM-2.5 (All Particulate Matter <2.5	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Nitrogen Oxides - NOx	0.088	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Carbon Monoxide	0.074	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* PM-10 (All Particulate Matter <10	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* PM-2.5 (All Particulate Matter <2.5	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Total VOC	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Sulfur Oxides - SOx	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
45	* Carbon Monoxide	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
45	* Nitrogen Oxides - NOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
46	* Carbon Monoxide	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
46	* Nitrogen Oxides - NOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
47	* Carbon Monoxide	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
47	* Nitrogen Oxides - NOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	18213	Boiler #1 stack	18	1	800	4610	0
2	18214	Boiler #2 Stack	18	1	800	4610	0
3	18215	CLEAN UP BAG FILTER #1	38	1	70	5000	0
4	18216	CLEAN-UP BAG FILTER #2	38	1	70	5000	0
5	18217	CLEAN-UP BAG FILTER #3	21	1	70	5000	0
6	18218	CLEAN-UP BAG FILTER #4	35	1	70	5000	0
7	18219	Shipping Dept CUBF #1	30	1	72	5000	0
8	18220	Thermal Oxidizer#1 - TOx for Production Units 1 and 2	150	10.5	1700	606000	0
9	18221	TO #2 - The TOx for Production Unit #3	150	9.5	1700	381000	0
10	18222	TO #4 - Production Unit #3	213	7	1700	369200	0
11	18223	CB Storage Tank	0	0	0	0	120
12	18224	Feedstock Storage Tank vent	0	0	0	0	33

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14	33538	Shipping Dept. CUBF #2	0	0	0	0	30
15	41618	Sealed Bin Clean Up Bag Filter	35	1	70	5000	0
16	47207	Thermal Oxidizer # 1	150	11.5	1700	606000	0
17	47234	Thermal Oxidizer # 1	150	11.5	1700	606000	0
18	47238	Thermal Oxidizer # 2	150	9.5	1700	381000	0
19	47239	Thermal Oxidizer # 3	213	7	1700	369200	0
20	104185	EPN 3	35	1	70	5000	0
21	104186	EPN 7	35	1	70	5000	0
22	104187	EPN 11	35	1	70	5000	0
23	104188	EPN 20	35	1	70	5000	0
24	104189	EBF 4	35	1	70	5000	0
25	104190	Sealed Bin Clean-Up Bagfiller #2	35	1	70	5000	0
26	104191	Transloading Clean-Up Bagfilter	35	1	70	5000	0
27	104197	Dryer 11 Firebox stack	35	1	70	5000	0
28	104198	Dryer 12 Firebox	35	1	70	5000	0
29	104199	Dryer 21 Firebox	35	1	70	5000	0
30	104200	Dryer 31 Firebox	35	1	70	5000	0
31	104201	Dryer 32 Firebox	35	1	70	5000	0
32	104202	Dryer 41 Firebox	35	1	70	5000	0
33	104203	Reactor 11	35	1	70	5000	0
34	104204	Reactor 12	35	1	70	5000	0
35	104205	Reactor 21	35	1	70	5000	0
36	104206	Reactor 31	35	1	70	5000	0
37	104207	Reactor 32	35	1	70	5000	0
38	104208	Reactor 41	35	1	70	5000	0
39	104209	Waste Gas Combustor 11	150	10.5	1700	606000	0
40	104210	Waste Gas Combustor 12	150	10.5	1700	606000	0
41	104211	Waste Gas Combustor	150	10.5	1700	606000	0
42	104212	Waste Gas Combustor 31	150	10.5	1700	606000	0
43	104213	Waste Gas Combustor 32	150	10.5	1700	606000	0
44	104214	Waste Gas Combustor 41	150	10.5	1700	606000	0
45	104215	Emergency Generator 1 and 2	4	0.25	1075	353	0
46	104216	Emergency Generator 3	4	0.25	1075	353	0
47	104217	Emergency Generator 4	4	0.25	1075	557	0

ATTACHMENT 4

DRAFT

2017TEAM ID
333**CONTINENTAL CARBON CO**
CARBON BLACK PRODUCTION FACILITY

Wednesday, May 09, 2018

Updated: 4/4/2018

Address: 1006 E OAKLAND AVE
PONCA CITY OK 74601**Status:** Active
Class: Major
SIC: 2895**Directions:**
1 MI S on Hwy 177 of Jct of Hwy
60 and Hwy 177.**Responsible Official****Contact:** BURTON, PHILLIP**Phone:** (580) 763-8111**Fax:** (580) 763-8150**County:** KAY**Sub:** NE/4**Section:** 10**Latitude:** 36.66616**Town:** 25N**Longitude:** -97.07163**Range:** 2E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	339.151	630080
* Nitrogen Oxides - NOx	930.882	
* PM-10 (All Particulate Matter <10	162.935	
* PM-2.5 (All Particulate Matter <2.5	162.935	
* Sulfur Oxides - SOx	2606.953	
* Total VOC	22.737	
Carbon disulfide	1.086	75150
Carbonyl sulfide	0.043	463581
Cyanide and Cyanide compounds	0.094	
Hydrogen sulfide	2.205	7783064

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Boiler #1	Operating	36.66151	-97.06980
2	Boiler #2	Operating	36.66146	-97.06981
3	CLEAN-UP BAG FILTER #1	Operating	36.66135	-97.07057
4	CLEAN-UP BAG FILTER #2	Operating	36.66133	-97.07028
5	CLEAN-UP BAG FILTER #3	Operating	36.66128	-97.06929
6	CLEAN-UP BAG FILTER #4	Operating	36.66145	-97.06883
7	Shipping Dept Clean-up Bagfiller 1	Operating	36.66084	-97.06982
8	Thermal Oxidizer #1	Operating	36.66153	-97.07050
9	Thermal Oxidizer #2	Operating	36.66153	-97.07036
10	Thermal Oxidizer #3	Operating	36.66131	-97.06862
11	CB Storage Tanks	Operating	36.66199	-97.07041
12	Feed stock tank 65,000 Bbl	Operating	36.66068	-97.06893
14	Shipping Dept Clean-up Bagfiller 2	Operating	36.66133	-97.06980
15	Sealed Bin Clean Up Bag Filter 1	Operating	36.66616	-97.07163
16	Production Unit 1	Operating	36.66616	-97.07163
17	Production Unit 2	Operating	36.66616	-97.07163
18	Production Unit 3	Operating	36.66616	-97.07163
19	Production Unit 4	Operating	36.66616	-97.07163
20	Production Unit 1 - Transition Events	Operating	36.66616	-97.07163
21	Production Unit 2 - Transition Events	Operating	36.66616	-97.07163
22	Production Unit 3 - Transition Events	Operating	36.66616	-97.07163
23	Production Unit 4 - Transition Events	Operating	36.66616	-97.07163
24	EBF 4	Operating	36.66616	-97.07163
25	Sealed Bin Clean-Up Bagfilter #2	Operating	36.66616	-97.07163

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26	Transloading Clean-Up Bagfilter	Operating	36.66616	-97.07163
27	Dryer 11 Firebox	Operating	36.66616	-97.07163
28	Dryer 12 Firebox	Operating	36.66616	-97.07163
29	Dryer 21 Firebox	Operating	36.66616	-97.07163
30	Dryer 31 Firebox	Operating	36.66616	-97.07163
31	Dryer 32 Firebox	Operating	36.66616	-97.07163
32	Dryer 41 Firebox	Operating	36.66616	-97.07163
33	Reactor 11	Operating	36.66616	-97.07163
34	Reactor 12	Operating	36.66616	-97.07163
35	Reactor 21	Operating	36.66616	-97.07163
36	Reactor 31	Operating	36.66616	-97.07163
37	Reactor 32	Operating	36.66616	-97.07163
38	Reactor 41	Operating	36.66616	-97.07163
39	Waste Gas Combuster 11	Operating	36.66616	-97.07163
40	Waste Gas Combuster 12	Operating	36.66616	-97.07163
41	Waste Gas Combuster 21	Operating	36.66616	-97.07163
42	Waste Gas Combuster 31	Operating	36.66616	-97.07163
43	Waste Gas Combuster 32	Operating	36.66616	-97.07163
44	Waste Gas Combuster 41	Operating	36.66616	-97.07163
45	Emergency Generator 1 and 2	Operating	36.66616	-97.07163
46	Emergency Generator 3	Operating	36.66616	-97.07163
47	Emergency Generator 4	Operating	36.66616	-97.07163

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ind	16.36	0.002	Million standard cubic feet	8424	24	7	10200603	N
2	External Combustion Boilers, Ind	15.86	0.002	Million standard cubic feet	8496	24	7	10200603	N
3	Industrial Processes, Chemical M	33263.44	4.845	Tons	6865	24	7	30100504	N
4	Industrial Processes, Chemical M	26529.33	4.566	Tons	5810	24	7	30100504	N
5	Industrial Processes, Chemical M	35197.51	5.046	Tons	6976	24	7	30100504	N
6	Industrial Processes, Chemical M	47586.89	7.209	Tons	4602	24	7	30100504	N
7	Industrial Processes, Chemical M	159.76	0.054	Tons	2944	24	7	30100508	N
8	Industrial Processes, Chemical M	25.58	0.004	Million standard cubic feet	6865	24	7	30100502	N
9	Industrial Processes, Chemical M	13.95	0.003	Million standard cubic feet	6976	24	7	30100502	N
10	Industrial Processes, Chemical M	36.99	0.008	1000 Standard Cubic feet	6601	24	7	30100502	N
11	Industrial Processes, Chemical M	89515.60	10.219	Tons	8760	24	7	30100599	N
12	Chemical Evaporation, Petroleum	71367881.00	8147	Gallons	8760	24	7	40400301	N
12	Chemical Evaporation, Petroleum	71367881.00	8147.02	Gallons	8760	24	7	40400302	N
14	Industrial Processes, Chemical M	495.61	0.223	Tons	2218	24	7	30100508	N
15	Industrial Processes, Chemical M	33.32	0.011	Tons	2944	23	7	30100504	N
16	Industrial Processes, Chemical M	7400098.00	#####	Gallons	6865	24	7	30100502	N
17	Industrial Processes, Chemical M	5901964.00	1015.8	Gallons	5810	24	7	30100502	N
18	Industrial Processes, Chemical M	10586627.00	1603.72	Gallons	6601	24	7	30100502	N
19	Industrial Processes, Chemical M	10586627.00	1603.72	Gallons	6601	24	7	30100502	N
20	Industrial Processes, Chemical M	129204.00	1615.04	Pounds	13	1	7	30100504	N
21	Industrial Processes, Chemical M	123283.00	1522.01	Pounds	14	1	7	30100504	N
22	Industrial Processes, Chemical M	161463.00	1681.91	Pounds	16	1	7	30100504	N

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23	Industrial Processes, Chemical M	173.39	2408.23	Pounds	12	1	7	30100504	N
24	Industrial Processes, Chemical M	47586.89	7.21	Tons	6601	24	7	30100504	N
25	Industrial Processes, Chemical M	33.32	0.015	Tons	2218	24	7	30100504	N
26	Industrial Processes, Chemical M	33.32	0.318	Tons	2512	24	7	30100504	N
27	Industrial Processes, Chemical M	0.60	0	Million standard cubic feet	6865	24	7	30100504	N
28	Industrial Processes, Chemical M	0.47	0	Million standard cubic feet	6865	24	7	30100504	N
29	Industrial Processes, Chemical M	0.48	0	Million standard cubic feet	5810	24	7	30100504	N
30	Industrial Processes, Chemical M	1.10	0	Million standard cubic feet	6976	24	7	30100504	N
31	Industrial Processes, Chemical M	2.42	0	Million standard cubic feet	6976	24	7	30100504	N
32	Industrial Processes, Chemical M	2.10	0.003	Million standard cubic feet	6601	24	7	30100504	N
33	Industrial Processes, Chemical M	148.18	0.023	Million standard cubic feet	6865	24	7	30100504	N
34	Industrial Processes, Chemical M	114.16	0.018	Million standard cubic feet	6865	24	7	30100504	N
35	Industrial Processes, Chemical M	47.58	0.011	Million standard cubic feet	5810	24	7	30100504	N
36	Industrial Processes, Chemical M	47.55	0.011	Million standard cubic feet	6976	24	7	30100504	N
37	Industrial Processes, Chemical M	171.36	0.041	Million standard cubic feet	6976	24	7	30100504	N
38	Industrial Processes, Chemical M	238.60	0.052	Million standard cubic feet	6601	24	7	30100504	N
39	Industrial Processes, Chemical M	0.61	1	Million standard cubic feet	6865	24	7	30100502	N
40	Industrial Processes, Chemical M	0.47	0	Million standard cubic feet	6865	24	7	30100502	N
41	Industrial Processes, Chemical M	0.48	0	Million standard cubic feet	5810	24	7	30100502	N
42	Industrial Processes, Chemical M	1.10	0	Million standard cubic feet	6976	24	7	30100502	N
43	Industrial Processes, Chemical M	2.42	0.001	Million standard cubic feet	6976	24	7	30100502	N
44	Industrial Processes, Chemical M	2.10	0.001	Million standard cubic feet	6601	24	7	30100502	N
45	Internal Combustion Engines, Ind	2016.00	63	Horsepower-hours	32	1	1	20200253	N
46	Internal Combustion Engines, Ind	2898.00	63	Horsepower-hours	46	1	1	20200253	N
47	Internal Combustion Engines, Ind	3520.00	110	Horsepower-hours	32	1	1	20200253	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Nitrogen Oxides - NOx	0.818	2.62	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0.687	2.21	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0.062	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0.062	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.045	0.23	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Sulfur Oxides - SOx	0.005	0.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	0.793	2.62	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0.666	2.21	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0.06	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.06	0.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0.044	0.23	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0.005	0.02	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.398	0	Mass Balance	Fabric Filter / B	96	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	0.398	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.083	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.083	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0.056	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	0.056	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	0.281	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0

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6	* PM-10 (All Particulate Matter <10	0.281	1.75	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
7	* PM-2.5 (All Particulate Matter <2.5	0.16	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
7	* PM-10 (All Particulate Matter <10	0.16	4.2	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
8	* Nitrogen Oxides - NOx	1.179	1134	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Carbon Monoxide	0.99	1995	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* PM-10 (All Particulate Matter <10	0.09	96	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* PM-2.5 (All Particulate Matter <2.5	0.09	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Total VOC	0.065	69	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
8	* Sulfur Oxides - SOx	0.007	8089	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Nitrogen Oxides - NOx	0.698	597	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Carbon Monoxide	0.586	1307	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-10 (All Particulate Matter <10	0.05	44	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-2.5 (All Particulate Matter <2.5	0.05	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Total VOC	0.04	58	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* Sulfur Oxides - SOx	0.004	3763	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Nitrogen Oxides - NOx	0.002	746	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Carbon Monoxide	0.002	1634	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Sulfur Oxides - SOx	0	4704	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* Total VOC	0	73	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
10	* PM-10 (All Particulate Matter <10	0	55	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
11	* PM-2.5 (All Particulate Matter <2.5	0.392	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
11	* PM-10 (All Particulate Matter <10	0.392	26.49	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
12	* Total VOC	1.1	29.12	TANKS	* Uncontrolled	0	* Uncontrolled	
12	* Total VOC	0.385	29.12	TANKS	* Uncontrolled	0	* Uncontrolled	
14	* PM-10 (All Particulate Matter <10	0.496	4.2	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
14	* PM-2.5 (All Particulate Matter <2.5	0.496	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
15	* PM-2.5 (All Particulate Matter <2.5	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
15	* PM-10 (All Particulate Matter <10	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* Sulfur Oxides - SOx	643.336	8089	Mass Balance	Recuperative T	98	* Uncontrolled	
16	* Nitrogen Oxides - NOx	192.753	1134	Mass Balance	* Uncontrolled	0	* Uncontrolled	
16	* PM-10 (All Particulate Matter <10	29.26	96	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* PM-2.5 (All Particulate Matter <2.5	29.26	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
16	* Carbon Monoxide	3.68	1995	Mass Balance	Recuperative T	98	* Uncontrolled	
16	* Total VOC	0.804	69	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Hydrogen sulfide	0.026	45.3	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Carbon disulfide	0.015	17.05	Mass Balance	Recuperative T	98	* Uncontrolled	
16	Cyanide and Cyanide compounds	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
16	Carbonyl sulfide	0	0.16	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Sulfur Oxides - SOx	407.092	8089	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Nitrogen Oxides - NOx	153.728	1134	Mass Balance	* Uncontrolled	0	* Uncontrolled	
17	* PM-2.5 (All Particulate Matter <2.5	23.339	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
17	* PM-10 (All Particulate Matter <10	23.339	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	
17	* Carbon Monoxide	3.482	1995	Mass Balance	Recuperative T	98	* Uncontrolled	
17	* Total VOC	0.597	69	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Hydrogen sulfide	0.061	45.3	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Carbon disulfide	0.014	17.05	Mass Balance	Recuperative T	98	* Uncontrolled	
17	Carbonyl sulfide	0.003	0.16	Mass Balance	Recuperative T	98	* Uncontrolled	

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17	Cyanide and Cyanide compounds	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	* Sulfur Oxides - SOx	711.306	3763	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	* Nitrogen Oxides - NOx	234.033	597	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	* PM-2.5 (All Particulate Matter <2.5	40.574	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
18	* PM-10 (All Particulate Matter <10	40.574	44	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
18	* Carbon Monoxide	25.979	1307	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	* Total VOC	1.226	58	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Hydrogen sulfide	0.191	19.86	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Carbon disulfide	0.108	11.18	Mass Balance	Recuperative T	98	* Uncontrolled	0
18	Cyanide and Cyanide compounds	0.009	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
18	Carbonyl sulfide	0.002	0.24	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Sulfur Oxides - SOx	844.859	4704	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Nitrogen Oxides - NOx	262.711	746	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
19	* PM-2.5 (All Particulate Matter <2.5	59.93	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
19	* PM-10 (All Particulate Matter <10	59.93	55	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
19	* Carbon Monoxide	27.83	1634	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	* Total VOC	5.293	73	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Hydrogen sulfide	0.206	39.09	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Carbon disulfide	0.116	13.97	Mass Balance	Recuperative T	98	* Uncontrolled	0
19	Cyanide and Cyanide compounds	0.008	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
19	Carbonyl sulfide	0.002	0.29	Mass Balance	Recuperative T	98	* Uncontrolled	0
20	* Carbon Monoxide	49.684	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Total VOC	2.217	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Hydrogen sulfide	0.367	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Carbon disulfide	0.206	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Nitrogen Oxides - NOx	0.176	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* PM-10 (All Particulate Matter <10	0.029	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* PM-2.5 (All Particulate Matter <2.5	0.029	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Cyanide and Cyanide compounds	0.018	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	* Sulfur Oxides - SOx	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
20	Carbonyl sulfide	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Carbon Monoxide	22.378	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Hydrogen sulfide	0.403	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Total VOC	0.35	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Carbon disulfide	0.092	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Sulfur Oxides - SOx	0.068	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* Nitrogen Oxides - NOx	0.052	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* PM-2.5 (All Particulate Matter <2.5	0.031	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	* PM-10 (All Particulate Matter <10	0.031	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Carbonyl sulfide	0.021	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
21	Cyanide and Cyanide compounds	0.015	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Carbon Monoxide	62.087	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Total VOC	2.771	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Hydrogen sulfide	0.459	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Carbon disulfide	0.258	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Nitrogen Oxides - NOx	0.219	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* PM-10 (All Particulate Matter <10	0.036	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* PM-2.5 (All Particulate Matter <2.5	0.036	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0

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22	Cyanide and Cyanide compounds	0.022	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	* Sulfur Oxides - SOx	0.014	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
22	Carbonyl sulfide	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Carbon Monoxide	66.527	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Total VOC	2.97	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Hydrogen sulfide	0.492	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Carbon disulfide	0.277	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Nitrogen Oxides - NOx	0.235	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* PM-2.5 (All Particulate Matter <2.5	0.039	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* PM-10 (All Particulate Matter <10	0.039	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Cyanide and Cyanide compounds	0.019	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	* Sulfur Oxides - SOx	0.015	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
23	Carbonyl sulfide	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
24	* Carbon Monoxide	42.017	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* Nitrogen Oxides - NOx	27.891	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* Total VOC	2.594	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* PM-10 (All Particulate Matter <10	1.493	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
24	* PM-2.5 (All Particulate Matter <2.5	1.493	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
25	* PM-10 (All Particulate Matter <10	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
25	* PM-2.5 (All Particulate Matter <2.5	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
26	* PM-10 (All Particulate Matter <10	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
26	* PM-2.5 (All Particulate Matter <2.5	0.033	0	Mass Balance	Fabric Filter / B	98	* Uncontrolled	0
27	* Nitrogen Oxides - NOx	1.927	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* PM-2.5 (All Particulate Matter <2.5	0.293	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* PM-10 (All Particulate Matter <10	0.293	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* Total VOC	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
27	* Carbon Monoxide	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Nitrogen Oxides - NOx	1.927	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* PM-10 (All Particulate Matter <10	0.293	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* PM-2.5 (All Particulate Matter <2.5	0.293	1.75	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Total VOC	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
28	* Carbon Monoxide	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Nitrogen Oxides - NOx	3.074	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* PM-2.5 (All Particulate Matter <2.5	0.467	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* PM-10 (All Particulate Matter <10	0.467	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Total VOC	0.011	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
29	* Carbon Monoxide	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Nitrogen Oxides - NOx	2.339	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* PM-2.5 (All Particulate Matter <2.5	0.406	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* PM-10 (All Particulate Matter <10	0.406	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Carbon Monoxide	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
30	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Nitrogen Oxides - NOx	2.339	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* PM-2.5 (All Particulate Matter <2.5	0.406	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* PM-10 (All Particulate Matter <10	0.406	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Carbon Monoxide	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
31	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Nitrogen Oxides - NOx	5.252	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

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32	* PM-2.5 (All Particulate Matter <2.5	1.168	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* PM-10 (All Particulate Matter <10	1.168	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Total VOC	0.081	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
32	* Carbon Monoxide	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
33	* Nitrogen Oxides - NOx	7.409	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Carbon Monoxide	6.223	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* PM-2.5 (All Particulate Matter <2.5	0.563	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* PM-10 (All Particulate Matter <10	0.563	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Total VOC	0.407	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
33	* Sulfur Oxides - SOx	0.044	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Nitrogen Oxides - NOx	5.708	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Carbon Monoxide	4.795	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* PM-2.5 (All Particulate Matter <2.5	0.434	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* PM-10 (All Particulate Matter <10	0.434	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Total VOC	0.314	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
34	* Sulfur Oxides - SOx	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Nitrogen Oxides - NOx	2.379	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Carbon Monoxide	1.998	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* PM-10 (All Particulate Matter <10	0.181	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* PM-2.5 (All Particulate Matter <2.5	0.181	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Total VOC	0.131	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
35	* Sulfur Oxides - SOx	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Nitrogen Oxides - NOx	2.377	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Carbon Monoxide	1.997	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* PM-2.5 (All Particulate Matter <2.5	0.181	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* PM-10 (All Particulate Matter <10	0.181	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Total VOC	0.131	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
36	* Sulfur Oxides - SOx	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Nitrogen Oxides - NOx	8.568	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Carbon Monoxide	7.197	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* PM-10 (All Particulate Matter <10	0.651	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* PM-2.5 (All Particulate Matter <2.5	0.651	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Total VOC	0.471	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
37	* Sulfur Oxides - SOx	0.051	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Nitrogen Oxides - NOx	11.93	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Carbon Monoxide	10.021	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* PM-10 (All Particulate Matter <10	0.907	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* PM-2.5 (All Particulate Matter <2.5	0.907	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Total VOC	0.656	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
38	* Sulfur Oxides - SOx	0.072	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Nitrogen Oxides - NOx	0.03	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Carbon Monoxide	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* PM-2.5 (All Particulate Matter <2.5	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* PM-10 (All Particulate Matter <10	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Total VOC	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
39	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Nitrogen Oxides - NOx	0.023	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Carbon Monoxide	0.02	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

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40	* PM-10 (All Particulate Matter <10	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* PM-2.5 (All Particulate Matter <2.5	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
40	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Nitrogen Oxides - NOx	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Carbon Monoxide	0.02	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* PM-10 (All Particulate Matter <10	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* PM-2.5 (All Particulate Matter <2.5	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
41	* Total VOC	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Nitrogen Oxides - NOx	0.055	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Carbon Monoxide	0.046	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* PM-2.5 (All Particulate Matter <2.5	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Total VOC	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
42	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Nitrogen Oxides - NOx	0.121	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Carbon Monoxide	0.102	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* PM-2.5 (All Particulate Matter <2.5	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* PM-10 (All Particulate Matter <10	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Total VOC	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
43	* Sulfur Oxides - SOx	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Nitrogen Oxides - NOx	0.105	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Carbon Monoxide	0.088	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* PM-10 (All Particulate Matter <10	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* PM-2.5 (All Particulate Matter <2.5	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Total VOC	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
44	* Sulfur Oxides - SOx	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
45	* Carbon Monoxide	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
45	* Nitrogen Oxides - NOx	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
46	* Carbon Monoxide	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
46	* Nitrogen Oxides - NOx	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
47	* Carbon Monoxide	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
47	* Nitrogen Oxides - NOx	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	18213	Boiler #1 stack	18	1	800	4610	0
2	18214	Boiler #2 Stack	18	1	800	4610	0
3	18215	CLEAN UP BAG FILTER #1	38	1	70	5000	0
4	18216	CLEAN-UP BAG FILTER #2	38	1	70	5000	0
5	18217	CLEAN-UP BAG FILTER #3	21	1	70	5000	0
6	18218	CLEAN-UP BAG FILTER #4	35	1	70	5000	0
7	18219	Shipping Dept CUBF #1	30	1	72	5000	0
8	18220	Thermal Oxidizer#1 - TOx for Production Units 1 and 2	150	10.5	1700	606000	0
9	18221	TO #2 - The TOx for Production Unit #3	150	9.5	1700	381000	0
10	18222	TO #4 - Production Unit #3	213	7	1700	369200	0
11	18223	CB Storage Tank	0	0	0	0	120
12	18224	Feedstock Storage Tank vent	0	0	0	0	33

CARBON BLACK PRODUCTION FACILITY

14	33538	Shipping Dept. CUBF #2	0	0	0	0	30
15	41618	Sealed Bin Clean Up Bag Filter	35	1	70	5000	0
16	47207	Thermal Oxidizer # 1	150	11.5	1700	606000	0
17	47234	Thermal Oxidizer # 1	150	11.5	1700	606000	0
18	47238	Thermal Oxidizer # 2	150	9.5	1700	381000	0
19	47239	Thermal Oxidizer # 3	213	7	1700	369200	0
20	104185	EPN 3	35	1	70	5000	0
21	104186	EPN 7	35	1	70	5000	0
22	104187	EPN 11	35	1	70	5000	0
23	104188	EPN 20	35	1	70	5000	0
24	104189	EBF 4	35	1	70	5000	0
25	104190	Sealed Bin Clean-Up Bagfiller #2	35	1	70	5000	0
26	104191	Transloading Clean-Up Bagfilter	35	1	70	5000	0
27	104197	Dryer 11 Firebox stack	35	1	70	5000	0
28	104198	Dryer 12 Firebox	35	1	70	5000	0
29	104199	Dryer 21 Firebox	35	1	70	5000	0
30	104200	Dryer 31 Firebox	35	1	70	5000	0
31	104201	Dryer 32 Firebox	35	1	70	5000	0
32	104202	Dryer 41 Firebox	35	1	70	5000	0
33	104203	Reactor 11	35	1	70	5000	0
34	104204	Reactor 12	35	1	70	5000	0
35	104205	Reactor 21	35	1	70	5000	0
36	104206	Reactor 31	35	1	70	5000	0
37	104207	Reactor 32	35	1	70	5000	0
38	104208	Reactor 41	35	1	70	5000	0
39	104209	Waste Gas Combustor 11	150	10.5	1700	606000	0
40	104210	Waste Gas Combustor 12	150	10.5	1700	606000	0
41	104211	Waste Gas Combustor	150	10.5	1700	606000	0
42	104212	Waste Gas Combustor 31	150	10.5	1700	606000	0
43	104213	Waste Gas Combustor 32	150	10.5	1700	606000	0
44	104214	Waste Gas Combustor 41	150	10.5	1700	606000	0
45	104215	Emergency Generator 1 and 2	4	0.25	1075	353	0
46	104216	Emergency Generator 3	4	0.25	1075	353	0
47	104217	Emergency Generator 4	4	0.25	1075	557	0

ATTACHMENT 5

DRAFT

2016TEAM ID
11**AES SHADY POINT LLC
COGENERATION PLT**

Wednesday, May 09, 2018

Updated: 3/31/2017

Address: 3 MILES E OF HWY 31/59 JCT
PANAMA OK 74951**Status:** Active
Class: Major
SIC: 4911**Directions:**
3 mile E of Hwy 31 junction and
59 Hwy, Panama, OK.**Responsible Official****Contact:** KIGER, LUNDY**Phone:** (918) 581-6003**Fax:** (918) 962-5666**County:** LE FLORE**Sub:****Section:** 2**Town:** 8N**Range:** 25E**Latitude:** 35.19506**Longitude:** -94.64569**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	1680.41	630080
* Nitrogen Oxides - NOx	979.97	
* PM-10 (All Particulate Matter <10	312.016	
* PM-2.5 (All Particulate Matter <2.5	180.754	
* Sulfur Oxides - SOx	1909.175	
* Total VOC	8.529	
1,1,1-Trichloroethane	0.012	71556
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.346	78591
Acetaldehyde	0.34	75070
Acetophenone	0.008	98862
Acrolein	0.172	107028
Arsenic Compounds (inorganic Includ	0.02	
Benzene	0.776	71432
Benzyl chloride	0.416	100447
Beryllium and Beryllium compounds	0.003	
Bromoform	0.024	75252
Bromomethane	0.096	74839
Carbon disulfide	0.076	75150
Chloroform	0.036	67663
Chloromethane	0.316	74873
Chromium	0.012	7440473
Cobalt and Cobalt compounds	0	
Cumene	0.003	98828
Cyanide and Cyanide compounds	1.492	
Diocetyl phthalate (DEHP)	0.044	117817
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.056	100414
Fluoride	0	16984488
Fluorides (non-HAP)	1.23	
Formaldehyde	0.144	50000
Hexane	0.076	110543
Hydrogen chloride	40.31	7647010
Hydrogen fluoride	2.06	7664393
Lead and Lead compounds	0.044	
Manganese compounds	0.116	
Mercury and Mercury compounds	0	

Methyl Hydrazine	0.1	60344
Methyl methacrylate	0.012	80626
Methylene chloride	0.172	75092
Nickel and Nickel compounds	0.012	
Phenol	0.008	108952
POM (Polycyclic organic matter)	0	
Propionaldehyde	0.228	123386
Selenium and Selenium compounds	0	
Styrene	0.016	100425
Sulfuric acid	11.62	7664939
Tetrachloroethylene	0.024	127184
Toluene	0.143	108883
Vinyl acetate	0.003	108054
Xylenes (mixed isomers)	0.024	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Boiler 1A: B-01A (EUG-2)	Operating	35.19281	-94.64691
2	Boiler 1B: B-02-01B (EUG-2)	Operating	35.19281	-94.64669
3	Boiler 2A: B-02-02A (EUG-2)	Operating	35.19281	-94.64669
4	Boiler 2B: B-02-02B (EUG-2)	Operating	35.19281	-94.64669
5	Railcar Unloading	Temporarily	35.19362	-94.64586
6	Vehicle Traffic (EUG-7)	Operating	35.19281	-94.64654
7	Coal handling (EUG-6)	Operating	35.19387	-94.64519
8	Limestone handling (EUG-5)	Operating	35.19346	-94.64602
9	Ash handling (EUG-4)	Operating	35.19291	-94.64668
10	Storage piles (EUG-8)	Operating	35.19384	-94.64519
11	CO2 Plant (EUG-3)	Operating	35.19311	-94.64736
12	Cooling Towers (EUG-10)	Operating	35.19372	-94.65015

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	305093.00	42.71	Tons	7143	24	7	10100238	N
1	External Combustion Boilers, Ele	11407.00	30	Million btus	1641	24	7	10100601	N
2	External Combustion Boilers, Ele	286679.66	41.41	Tons	6922	24	7	10100238	N
2	External Combustion Boilers, Ele	14045.00	36	Million btus	8760	24	7	10100601	N
3	External Combustion Boilers, Ele	311609.23	40.05	Tons	7780	24	7	10100238	N
3	External Combustion Boilers, Ele	120992.00	141	Million btus	1003	24	7	10100601	N
4	External Combustion Boilers, Ele	302803.04	40.87	Tons	7409	24	7	10100238	N
4	External Combustion Boilers, Ele	75436.00	92	Million btus	1374	24	7	10100601	N
5	Industrial Processes, Mineral Prod	0.00	0	Tons	0	0	0	30501044	N
6	Industrial Processes, Mineral Prod	70854.56	8.088	Miles	8760	24	7	30502011	N
7	Industrial Processes, Mineral Prod	1200120.00	137	Tons	8760	24	7	30501011	N
8	Industrial Processes, Mineral Prod	1020540.00	124	Tons	8760	24	7	30510105	N
9	Industrial Processes, Mineral Prod	328642.00	37.516	Tons	8760	24	7	30510199	N
10	Industrial Processes, Mineral Prod	1228955.00	140	Tons	8760	24	7	30510203	N
11	Industrial Processes, In-process F	0.00	0	Million btus	0	24	2	39000699	N
11	Industrial Processes, Miscellaneo	2562.00	6.99	Hour	8784	24	7	39999999	N

12	Industrial Processes, Cooling Tow	84096.00	9.6	Million gallons	8760	24	7	38500101	N
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CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	474.11	10346	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
1	* Carbon Monoxide	422.73	2672	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	230.26	6701	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	40.48	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	23.32	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	10.01	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Sulfuric acid	2.905	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	1.38	85.5	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	0.78	6701	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
1	Hydrogen fluoride	0.515	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0.47	2672	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cyanide and Cyanide compounds	0.373	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Fluorides (non-HAP)	0.31	56.1	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
1	Benzene	0.194	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzyl chloride	0.104	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.085	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetaldehyde	0.085	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloromethane	0.079	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Propionaldehyde	0.057	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acrolein	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methylene chloride	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0.042	396	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0.042	396	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	Formaldehyde	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.031	85.5	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0.029	0	Mass Balance	Fabric Filter / B	99	* Uncontrolled	0
1	Methyl Hydrazine	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Bromomethane	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Carbon disulfide	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Diethyl phthalate (DEHP)	0.011	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0.01	8.58	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
1	Chloroform	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Bromoform	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Styrene	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0

1	* Sulfur Oxides - SOx	0.003	10346	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
1	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Cumene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	1.93	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl acetate	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	458.32	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
2	* Carbon Monoxide	397.22	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	243.1	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	125.46	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	72.27	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen chloride	10.1	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	2.905	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	1.297	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	0.96	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
2	* Carbon Monoxide	0.58	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen fluoride	0.515	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Cyanide and Cyanide compounds	0.373	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Fluorides (non-HAP)	0.29	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	Benzene	0.194	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzyl chloride	0.104	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.087	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acetaldehyde	0.085	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chloromethane	0.079	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Propionaldehyde	0.057	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0.052	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.052	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	Methylene chloride	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acrolein	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0.038	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0.029	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl Hydrazine	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Bromomethane	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

2	Carbon disulfide	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Diethyl phthalate (DEHP)	0.011	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0.011	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	Chloroform	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Bromoform	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Xylenes (mixed isomers)	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0.004	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
2	Styrene	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acetophenone	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Sulfur Oxides - SOx	500.27	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
3	* Carbon Monoxide	431.76	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	* Nitrogen Oxides - NOx	246.69	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	71.4	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	41.13	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Hydrogen chloride	10.1	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	* Nitrogen Oxides - NOx	8.3	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
3	* Carbon Monoxide	4.98	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Sulfuric acid	2.905	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	1.41	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Hydrogen fluoride	0.515	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	0.451	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.451	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Cyanide and Cyanide compounds	0.373	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0.326	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Fluorides (non-HAP)	0.32	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Benzene	0.194	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Benzyl chloride	0.104	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.087	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

3	Acetaldehyde	0.085	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Chloromethane	0.079	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Propionaldehyde	0.057	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Acrolein	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Methylene chloride	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Formaldehyde	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Sulfur Oxides - SOx	0.036	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
3	Toluene	0.035	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Manganese compounds	0.029	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Methyl Hydrazine	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Bromomethane	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Carbon disulfide	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Hexane	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Ethylbenzene	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Diethyl phthalate (DEHP)	0.011	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Lead and Lead compounds	0.01	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
3	Chloroform	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Bromoform	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Xylenes (mixed isomers)	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Styrene	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Beryllium and Beryllium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	POM (Polycyclic organic matter)	0	0		* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	476.41	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
4	* Carbon Monoxide	419.56	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	244.7	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	47.32	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	27.26	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Hydrogen chloride	10.1	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	5.18	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
4	* Carbon Monoxide	3.11	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

4	Sulfuric acid	2.905	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Total VOC	1.37	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Hydrogen fluoride	0.515	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Cyanide and Cyanide compounds	0.373	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Fluorides (non-HAP)	0.31	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.281	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.281	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	* Total VOC	0.203	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Benzene	0.194	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Benzyl chloride	0.104	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.087	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Acetaldehyde	0.085	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chloromethane	0.079	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Propionaldehyde	0.057	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Methylene chloride	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Acrolein	0.043	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Formaldehyde	0.036	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Manganese compounds	0.029	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Methyl Hydrazine	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Bromomethane	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	0.022	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
4	Hexane	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Carbon disulfide	0.019	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Ethylbenzene	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Lead and Lead compounds	0.013	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
4	Diethyl phthalate (DEHP)	0.011	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chloroform	0.009	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Bromoform	0.006	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Xylenes (mixed isomers)	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Styrene	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Beryllium and Beryllium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	POM (Polycyclic organic matter)	0	0		* Uncontrolled	0	* Uncontrolled	0
4	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0

4	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
4	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled
4	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
6	* PM-10 (All Particulate Matter <10	3.419	0	EPA Documents	Dust Suppressi	50	* Uncontrolled
6	* PM-2.5 (All Particulate Matter <2.5	0.353	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
7	* PM-10 (All Particulate Matter <10	0.963	0	EPA Documents	Other Control	95	* Uncontrolled
7	* PM-2.5 (All Particulate Matter <2.5	0.119	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
8	* PM-10 (All Particulate Matter <10	0.158	0	EPA Documents	Other Control	95	* Uncontrolled
8	* PM-2.5 (All Particulate Matter <2.5	0.02	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
9	* PM-10 (All Particulate Matter <10	0.979	0	EPA Documents	Fabric Filter / B	98	* Uncontrolled
9	* PM-2.5 (All Particulate Matter <2.5	0.148	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
10	* PM-10 (All Particulate Matter <10	4.971	0	EPA Documents	Other Control	50	* Uncontrolled
10	* PM-2.5 (All Particulate Matter <2.5	1.988	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
11	* Total VOC	2.474	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled
11	* Carbon Monoxide	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
11	* Total VOC	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
11	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
11	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
11	* Nitrogen Oxides - NOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
11	* PM-10 (All Particulate Matter <10	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
12	* PM-10 (All Particulate Matter <10	16.04	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
12	* PM-2.5 (All Particulate Matter <2.5	13.32	0	EPA Documents	* Uncontrolled	0	* Uncontrolled

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	8315	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
2	8316	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
3	8317	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
4	8318	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
5	8319	Railcar Unloading	0	0	0	0	15
6	8320	Vehicle traffic	0	0	0	0	11
7	8321	Coal transfer	0	0	0	0	15
8	8322	Limestone transfer	0	0	0	0	15
9	8323	Ash handling	0	0	0	0	15
10	8325	Storage piles for ash and coal	0	0	0	0	15
11	12792	CO2 Plant Stack	104	2.5	212	17354	0
12	35895	Cooling Towers (EUG-10)	60	52	78	6371150	0

ATTACHMENT 6

DRAFT

2017TEAM ID
11**AES SHADY POINT LLC
COGENERATION PLT**

Wednesday, May 09, 2018

Updated: 4/4/2018

Address: 3 MILES E OF HWY 31/59 JCT
PANAMA OK 74951**Status:** Active
Class: Major
SIC: 4911**Directions:**
3 mile E of Hwy 31 junction and
59 Hwy, Panama, OK.**Responsible Official****Contact:** KIGER, LUNDY**Phone:** (918) 581-6003**Fax:** (918) 962-5666**County:** LE FLORE**Sub:****Section:** 2**Town:** 8N**Range:** 25E**Latitude:** 35.19506**Longitude:** -94.64569**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	1552.44	630080
* Nitrogen Oxides - NOx	1311.85	
* PM-10 (All Particulate Matter <10	300.484	
* PM-2.5 (All Particulate Matter <2.5	174.324	
* Sulfur Oxides - SOx	1945.786	
* Total VOC	7.581	
1,1,1-Trichloroethane	0.012	71556
2-Chloroacetophenone	0.004	532274
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.324	78591
Acetaldehyde	0.32	75070
Acetophenone	0.008	98862
Acrolein	0.16	107028
Arsenic Compounds (inorganic Includ	0.02	
Benzene	0.728	71432
Benzyl chloride	0.392	100447
Beryllium and Beryllium compounds	0.002	
Bromoform	0.02	75252
Bromomethane	0.088	74839
Carbon disulfide	0.072	75150
Chlorobenzene	0.012	108907
Chloroform	0.032	67663
Chloromethane	0.296	74873
Chromium	0.012	7440473
Cobalt and Cobalt compounds	0	
Cumene	0.004	98828
Cyanide and Cyanide compounds	1.396	
Dimethyl sulfate	0.028	77781
Diethyl phthalate (DEHP)	0.04	117817
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.169	100414
Fluoride	0	16984488
Fluorides (non-HAP)	1.21	
Formaldehyde	0.136	50000
Hexane	0.072	110543
Hydrogen chloride	13.044	7647010
Hydrogen fluoride	1.928	7664393

Lead and Lead compounds	0.044	
Manganese compounds	28.084	
Mercury and Mercury compounds	0	
Methyl Hydrazine	0.072	60344
Methyl isobutyl ketone	0.108	108101
Methyl methacrylate	0.012	80626
Methyl Tert-Butyl Ether (MTBE)	0.02	1634044
Methylene chloride	0.16	75092
Nickel and Nickel compounds	0.012	
Phenol	0.008	108952
POM (Polycyclic organic matter)	0	
Propionaldehyde	0.212	123386
Selenium and Selenium compounds	0	
Styrene	0.012	100425
Sulfuric acid	10.88	7664939
Tetrachloroethylene	0.024	127184
Toluene	0.136	108883
Vinyl acetate	0.004	108054
Xylenes (mixed isomers)	0.02	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Boiler 1A: B-01A (EUG-2)	Operating	35.19281	-94.64691
2	Boiler 1B: B-02-01B (EUG-2)	Operating	35.19281	-94.64669
3	Boiler 2A: B-02-02A (EUG-2)	Operating	35.19281	-94.64669
4	Boiler 2B: B-02-02B (EUG-2)	Operating	35.19281	-94.64669
5	Railcar Unloading	Temporarily	35.19362	-94.64586
6	Vehicle Traffic (EUG-7)	Operating	35.19281	-94.64654
7	Coal handling (EUG-6)	Operating	35.19387	-94.64519
8	Limestone handling (EUG-5)	Operating	35.19346	-94.64602
9	Ash handling (EUG-4)	Operating	35.19291	-94.64668
10	Storage piles (EUG-8)	Operating	35.19384	-94.64519
11	CO2 Plant (EUG-3)	Operating	35.19311	-94.64736
12	Cooling Towers (EUG-10)	Operating	35.19372	-94.65015
13	ENG-1 (Cummins KTA-38-G1)	Operating	35.19506	-94.64569
14	ENG-2 (Union Pump Make AA Model 3412)	Operating	35.19506	-94.64569
15	ENG-3	Operating	35.19506	-94.64569

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	17490.00	46	Million btus	815	24	7	10100601	N
1	External Combustion Boilers, Ele	299108.00	37.65	Tons	7945	24	7	10100238	N
2	External Combustion Boilers, Ele	276894.02	35.66	Tons	7764	24	7	10100238	N
2	External Combustion Boilers, Ele	17510.00	45	Million btus	996	24	7	10100601	N
3	External Combustion Boilers, Ele	275658.53	36.36	Tons	7582	24	7	10100238	N
3	External Combustion Boilers, Ele	7534.00	9	Million btus	1178	24	7	10100601	N
4	External Combustion Boilers, Ele	266848.45	36.19	Tons	7373	24	7	10100238	N
4	External Combustion Boilers, Ele	14687.00	18	Million btus	1387	24	7	10100601	N

5	Industrial Processes, Mineral Prod	0.00	0 Tons	0	0	0	30501044	N
6	Industrial Processes, Mineral Prod	56306.89	6.428 Miles	8760	24	7	30502011	N
7	Industrial Processes, Mineral Prod	1087857.00	124 Tons	8760	24	7	30501011	N
8	Industrial Processes, Mineral Prod	102057.65	11.65 Tons	8760	24	7	30510105	N
9	Industrial Processes, Mineral Prod	247032.00	28.2 Tons	8760	24	7	30510199	N
10	Industrial Processes, Mineral Prod	1071979.45	122.37 Tons	8760	24	7	30510203	N
11	Industrial Processes, In-process F	0.00	0 Million btus	0	24	2	39000699	N
11	Industrial Processes, Miscellaneo	53961.60	6.16 Hour	8760	24	7	39999999	N
12	Industrial Processes, Cooling Tow	84096.00	9.6 Million gallons	8760	24	7	38500101	N
13	Internal Combustion Engines, Ele	64440.00	1200 Horsepower-hours	54	24	7	20100107	N
14	Internal Combustion Engines, Ele	27102.00	726 Horsepower-hours	2710	24	7	20100107	N
15	Internal Combustion Engines, Ind	4140.00	150 Horsepower-hours	28	24	7	20200102	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	506.03	10346	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
1	* Carbon Monoxide	414.44	2672	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	375.68	6701	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	41.71	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
1	Manganese compounds	28	0	Mass Balance	Fabric Filter / B	99	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	24.03	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	3.261	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Sulfuric acid	2.72	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	1.27	85.5	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	1.2	6701	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
1	* Carbon Monoxide	0.72	2672	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen fluoride	0.482	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Cyanide and Cyanide compounds	0.349	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Fluorides (non-HAP)	0.32	56.1	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
1	Benzene	0.182	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0.13	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzyl chloride	0.098	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.081	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetaldehyde	0.08	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloromethane	0.074	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0.065	396	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0.065	396	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	Propionaldehyde	0.053	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.047	85.5	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acrolein	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methylene chloride	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methyl Hydrazine	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Bromomethane	0.022	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Carbon disulfide	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0.011	8.58	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0

1	Diocetyl phthalate (DEHP)	0.01	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloroform	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Dimethyl sulfate	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methyl Tert-Butyl Ether (MTBE)	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	* Sulfur Oxides - SOx	0.005	10346	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
1	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Bromoform	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Styrene	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
1	Chlorobenzene	0.003	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	2-Chloroacetophenone	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
1	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	1.93	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	493.73	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
2	* Carbon Monoxide	383.66	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	314.29	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	124.74	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	71.86	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen chloride	3.261	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	2.72	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	1.2	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
2	* Total VOC	1.18	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0.72	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen fluoride	0.482	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	Cyanide and Cyanide compounds	0.349	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Fluorides (non-HAP)	0.3	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	Benzene	0.182	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzyl chloride	0.098	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

2	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.081	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acetaldehyde	0.08	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chloromethane	0.074	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0.065	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.065	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	Propionaldehyde	0.053	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0.047	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acrolein	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methylene chloride	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0.028	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl Hydrazine	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Bromomethane	0.022	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Carbon disulfide	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0.013	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0.011	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
2	Diethyl phthalate (DEHP)	0.01	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chloroform	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Dimethyl sulfate	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	0.005	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
2	Xylenes (mixed isomers)	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl Tert-Butyl Ether (MTBE)	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Bromoform	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Styrene	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	Chlorobenzene	0.003	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
2	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Acetophenone	0.002	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	2-Chloroacetophenone	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
2	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0

3	* Sulfur Oxides - SOx	485.94	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
3	* Carbon Monoxide	381.94	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	* Nitrogen Oxides - NOx	349.16	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	65.11	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	37.51	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Hydrogen chloride	3.261	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Sulfuric acid	2.72	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	1.17	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	* Nitrogen Oxides - NOx	0.52	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
3	Hydrogen fluoride	0.482	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Cyanide and Cyanide compounds	0.349	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Carbon Monoxide	0.31	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Fluorides (non-HAP)	0.3	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Benzene	0.182	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Benzyl chloride	0.098	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.081	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Acetaldehyde	0.08	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Chloromethane	0.074	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Methyl isobutyl ketone	0.054	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Propionaldehyde	0.053	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Acrolein	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Methylene chloride	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Formaldehyde	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	0.028	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Manganese compounds	0.028	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.028	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Methyl Hydrazine	0.024	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Bromomethane	0.022	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Total VOC	0.02	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Carbon disulfide	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Hexane	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Ethylbenzene	0.013	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Diethyl phthalate (DEHP)	0.01	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Lead and Lead compounds	0.01	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
3	Chloroform	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Dimethyl sulfate	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Xylenes (mixed isomers)	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Bromoform	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Methyl Tert-Butyl Ether (MTBE)	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Styrene	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Chlorobenzene	0.003	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
3	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

3	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	* Sulfur Oxides - SOx	0.002	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
3	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Beryllium and Beryllium compounds	0.001	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	2-Chloroacetophenone	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
3	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	459.97	0	Cont. Emissions Monit. D	Dry Limestone	92.2	Fabric Filter / B	99
4	* Carbon Monoxide	369.74	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	267.31	0	Cont. Emissions Monit. D	Low Excess Air	99	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	42.95	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	24.74	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Hydrogen chloride	3.261	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Sulfuric acid	2.72	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Total VOC	1.13	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	1.01	0	AP-42 Factors	Low Excess Air	99	* Uncontrolled	0
4	* Carbon Monoxide	0.6	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Hydrogen fluoride	0.482	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Cyanide and Cyanide compounds	0.349	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Fluorides (non-HAP)	0.29	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Benzene	0.182	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Benzyl chloride	0.098	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.081	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Acetaldehyde	0.08	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chloromethane	0.074	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.055	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.055	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Methyl isobutyl ketone	0.054	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Propionaldehyde	0.053	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Total VOC	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Methylene chloride	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Acrolein	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Formaldehyde	0.034	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Manganese compounds	0.028	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Bromomethane	0.022	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Carbon disulfide	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Hexane	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Ethylbenzene	0.013	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

COGENERATION PLT

4	Lead and Lead compounds	0.012	0	EPA RM Stack Test	Fabric Filter / B	99	* Uncontrolled	0
4	Diethyl phthalate (DEHP)	0.01	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chloroform	0.008	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Dimethyl sulfate	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Tetrachloroethylene	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Bromoform	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Arsenic Compounds (inorganic Includ	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Methyl Tert-Butyl Ether (MTBE)	0.005	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Xylenes (mixed isomers)	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	0.004	0	AP-42 Factors	Dry Limestone	92.2	Fabric Filter / B	99
4	Styrene	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	1,1,1-Trichloroethane	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Nickel and Nickel compounds	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Methyl methacrylate	0.003	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Chlorobenzene	0.003	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Chromium	0.003	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
4	Acetophenone	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Phenol	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	2-Chloroacetophenone	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Cumene	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Vinyl acetate	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Mercury and Mercury compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	Hexane	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	Beryllium and Beryllium compounds	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
4	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	Cobalt and Cobalt compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Methyl Hydrazine	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	3.358	0	EPA Documents	Dust Suppressi	50	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	0.344	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	0.16	0	EPA Documents	Other Control	95	* Uncontrolled	0
7	* PM-2.5 (All Particulate Matter <2.5	0.16	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
8	* PM-10 (All Particulate Matter <10	0.151	0	EPA Documents	Other Control	95	* Uncontrolled	0
8	* PM-2.5 (All Particulate Matter <2.5	0.019	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
9	* PM-10 (All Particulate Matter <10	0.941	0	EPA Documents	Fabric Filter / B	98	* Uncontrolled	0
9	* PM-2.5 (All Particulate Matter <2.5	0.143	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
10	* PM-10 (All Particulate Matter <10	4.971	0	EPA Documents	Other Control	50	* Uncontrolled	0
10	* PM-2.5 (All Particulate Matter <2.5	1.988	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
11	* Total VOC	2.567	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
11	* Carbon Monoxide	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
11	* Total VOC	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
11	* PM-2.5 (All Particulate Matter <2.5	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
11	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
11	* PM-10 (All Particulate Matter <10	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

11	* Nitrogen Oxides - NOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
12	* PM-10 (All Particulate Matter <10	16.04	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
12	* PM-2.5 (All Particulate Matter <2.5	13.317	0	EPA Documents	* Uncontrolled	0	* Uncontrolled
13	* Nitrogen Oxides - NOx	1	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
13	* Carbon Monoxide	0.22	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
13	* Total VOC	0.08	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
13	* Sulfur Oxides - SOx	0.07	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
13	* PM-10 (All Particulate Matter <10	0.07	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
14	* Nitrogen Oxides - NOx	0.42	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
14	* Carbon Monoxide	0.09	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
14	* PM-10 (All Particulate Matter <10	0.07	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
14	* Total VOC	0.03	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
14	* Sulfur Oxides - SOx	0.03	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled
15	* Nitrogen Oxides - NOx	0.06	0	Permit Factors	* Uncontrolled	0	* Uncontrolled

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	8315	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
2	8316	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
3	8317	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
4	8318	Unit 1A, 1B, 2A, 2B Common Boiler Stack	350	17	350	800016	0
5	8319	Railcar Unloading	0	0	0	0	15
6	8320	Vehicle traffic	0	0	0	0	11
7	8321	Coal transfer	0	0	0	0	15
8	8322	Limestone transfer	0	0	0	0	15
9	8323	Ash handling	0	0	0	0	15
10	8325	Storage piles for ash and coal	0	0	0	0	15
11	12792	CO2 Plant Stack	104	2.5	212	17354	0
12	35895	Cooling Towers (EUG-10)	60	52	78	6371150	0
13	160625	ENG-1 (Cummins KTA-38-G1)	3	0.5	900	1592	0
14	160717	ENG-2 (Union Pump Make AA Model 3412)	3	0.5	900	1592	0
15	160730	ENG-3	4	0.5	900	1592	0

ATTACHMENT 7

DRAFT

2016TEAM ID
1211**OG AND E**
SOONER GNRTNG STA

Wednesday, May 09, 2018

Updated: 3/28/2017

Address: 10800 COUNTY RD 230
RED ROCK OK 74651**Status:** Active
Class: Major
SIC: 4911**Directions:**
East of town on Hwy 177. Red
Rock, OK.
Intersection of Hwy 15 and 177.**Responsible Official****Contact:** HIXON, MICHAEL**Phone:** (405) 553-3031**Fax:****County:** NOBLE**Sub:** E/2**Section:** 23**Town:** 23N**Range:** 2E**Latitude:** 36.45183**Longitude:** -97.06352**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	3279.252	630080
* Nitrogen Oxides - NOx	2895.037	
* PM-10 (All Particulate Matter <10	714.937	
* PM-2.5 (All Particulate Matter <2.5	596.229	
* Sulfur Oxides - SOx	11194.426	
* Total VOC	76.048	
1,1,1-Trichloroethane	0.006	71556
1,2,4-Trichlorobenzene	0	120821
1,2-Dibromoethane	0.01	106934
1,4-Dichlorobenzene	0	106467
2,4-Dinitrotoluene	0.06	121142
Acetaldehyde	0.066	75070
Acetophenone	0.044	98862
Acrolein	0.077	107028
Allyl chloride	0	107051
Antimony and Antimony compounds	0.012	
Arsenic Compounds (inorganic Includ	0.025	
Benzene	0.044	71432
Benzyl chloride	0.042	100447
Beryllium and Beryllium compounds	0.002	
Biphenyl	0.002	92524
Bromomethane	0	74839
Cadmium and Cadmium compounds	0.007	
Carbon disulfide	0.038	75150
Chlorobenzene	0.004	108907
Chloroethane	0	75003
Chloroform	0.004	67663
Chloromethane	0	74873
Chromium	0.06	7440473
Cobalt and Cobalt compounds	0.014	
Cresols (mixed isomers)	0	1319773
Dibenzofuran	0.062	132649
Dibutyl phthalate	0.016	84742
Dimethyl phthalate	0.02	131113
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.004	100414

2016TEAM ID
1211**OG AND E**

Wednesday, May 09, 2018

SOONER GNRTNG STA

Updated: 3/28/2017

Formaldehyde	0.033	50000
Hexane	0.048	110543
Hydrogen chloride	18.4	7647010
Hydrogen fluoride	20.95	7664393
Lead and Lead compounds	0.044	
Manganese compounds	0.087	
Mercury and Mercury compounds	0.03	
Methyl iodide	0.01	74884
Methyl isobutyl ketone	0.197	108101
Methyl methacrylate	0	80626
Naphthalene	0.006	91203
Nickel and Nickel compounds	0.061	
Phenol	0.042	108952
POM (Polycyclic organic matter)	0.004	
Propionaldehyde	0.111	123386
Selenium and Selenium compounds	0.231	
Styrene	0.002	100425
Sulfuric acid	8.475	7664939
Tetrachloroethylene	0.002	127184
Toluene	0.036	108883
Vinyl acetate	0	108054
Vinyl chloride	0	75014
Xylenes (mixed isomers)	0.004	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Electric Power Generation Boiler (Combustion Engineering) - Unit #1	Operating	36.45664	-97.05033
2	Electric Power Generation Boiler (Combustion Engineering) - Unit #2	Operating	36.45681	-97.04952
3	Coal Crushing, Screening and Handling	Operating	36.45915	-97.04968
4	Auxiliary Boiler	Operating	36.45913	-97.04968
5	Coal Pile	Operating	36.45183	-97.06352
6	#1 Emergency Generator GM - Detroit Serial 73099	Operating	36.45183	-97.06352
7	#2 Emergency Generator GM-Detroit Serial # 73100	Operating	36.45183	-97.06352
8	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	Operating	36.45183	-97.06352
9	Generac Model WT025A	Operating	36.45183	-97.06352
10	Activated Carbon Handling Equipment	Operating	36.45183	-97.06352
11	Activated Carbon Handling Road Travel	Operating	36.45183	-97.06352

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	1254703.10	293.9	Tons	5254	24	7	10100226	N
1	External Combustion Boilers, Ele	425.29	4.87	1000 Gallons	124	24	7	10100501	N
2	External Combustion Boilers, Ele	1268380.37	293.9	Tons	4600	24	7	10100226	N
2	External Combustion Boilers, Ele	383.46	4.87	1000 Gallons	123	24	7	10100501	N
3	Industrial Processes, Mineral Prod	2523083.47	800	Tons	8760	24	7	30510103	N
4	External Combustion Boilers, Ind	230117.80	242	Gallons	951	24	7	10200502	N
5	Industrial Processes, Mineral Prod	44.90	1	Acres	8760	24	7	30510303	N
6	Internal Combustion Engines, Ind	43.00	1	Million btus	9	24	7	20200102	N

SOONER GNRTNG STA

7	Internal Combustion Engines, Ind	121.00	1	Million btus	22	24	7	20200102	N
8	Internal Combustion Engines, Ele	22.48	1	Gallons	7	24	7	20100102	N
9	Internal Combustion Engines, Ind	108.31	4.15	Gallons	26	1	1	20201001	N
10	Industrial Processes, Mineral Prod	559.66	10	Tons	54	1	2	30510496	N
11	Industrial Processes, Mineral Prod	145.00	5.4	Miles	10	1	7	30510496	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	5553.322	26884	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	* Nitrogen Oxides - NOx	1410.936	15682.6	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	* Carbon Monoxide	1387.1	8291	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
1	* PM-10 (All Particulate Matter <10	221.539	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	
1	* PM-2.5 (All Particulate Matter <2.5	193.137	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	
1	* Total VOC	37.641	122	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Hydrogen fluoride	10.4	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Hydrogen chloride	9.2	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Sulfuric acid	4.205	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	* PM-10 (All Particulate Matter <10	0.213	2240.4	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	* Total VOC	0.162	122	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Selenium and Selenium compounds	0.115	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Methyl isobutyl ketone	0.098	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Propionaldehyde	0.055	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	* PM-2.5 (All Particulate Matter <2.5	0.053	2240.4	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Manganese compounds	0.045	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Acrolein	0.038	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Acetaldehyde	0.033	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Chromium	0.031	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Dibenzofuran	0.031	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Nickel and Nickel compounds	0.031	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	2,4-Dinitrotoluene	0.03	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Hexane	0.024	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Lead and Lead compounds	0.024	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Acetophenone	0.022	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Benzene	0.022	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Phenol	0.021	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Benzyl chloride	0.021	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Carbon disulfide	0.019	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Toluene	0.018	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Mercury and Mercury compounds	0.015	0	Cont. Emissions Monit. D	Activated Carb	90	* Uncontrolled	
1	Arsenic Compounds (inorganic Includ	0.013	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Formaldehyde	0.013	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
1	Dimethyl phthalate	0.01	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Dibutyl phthalate	0.008	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Cobalt and Cobalt compounds	0.007	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Antimony and Antimony compounds	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
1	Methyl iodide	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	1,2-Dibromoethane	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	
1	Cadmium and Cadmium compounds	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	

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1	Formaldehyde	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	1,1,1-Trichloroethane	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Chloroform	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chlorobenzene	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Styrene	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Tetrachloroethylene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Biphenyl	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	1,2,4-Trichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cresols (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chloroethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Allyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chloromethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Methyl methacrylate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0	800	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl acetate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Bromomethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
1	1,4-Dichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	5641.074	26884	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	1891.392	8219	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	1481.447	15682.6	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	459.774	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	400.663	2204.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
2	* Total VOC	38.051	122	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen fluoride	10.55	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen chloride	9.2	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	4.27	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.192	2240.4	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Total VOC	0.146	122	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0.116	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Methyl isobutyl ketone	0.099	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Propionaldehyde	0.056	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0

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2	* PM-2.5 (All Particulate Matter <2.5	0.048	2240.4	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0.042	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Acrolein	0.039	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Acetaldehyde	0.033	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Dibenzofuran	0.031	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0.03	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	2,4-Dinitrotoluene	0.03	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0.029	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0.024	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Acetophenone	0.022	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0.022	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Benzyl chloride	0.021	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Phenol	0.021	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Carbon disulfide	0.019	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0.018	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0.015	0	Cont. Emissions Monit. D	Activated Carb	90	* Uncontrolled	0
2	Formaldehyde	0.012	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Dimethyl phthalate	0.01	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Dibutyl phthalate	0.008	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0.007	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Antimony and Antimony compounds	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	1,2-Dibromoethane	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Methyl iodide	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Cadmium and Cadmium compounds	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Naphthalene	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	1,1,1-Trichloroethane	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Xylenes (mixed isomers)	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chlorobenzene	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chloroform	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Biphenyl	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Tetrachloroethylene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Styrene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Dioxins/furans (non-HAP)	0	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Allyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	1,4-Dichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl acetate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	1,2,4-Trichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

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2	Cadmium and Cadmium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl methacrylate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Chloromethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Chloroethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Cresols (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
2	Bromomethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0	800	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	15.8	0	EPA Documents	Fabric Filter / B	90	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.26	0	EPA Documents	Dust Suppressi	85	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	2.301	21.2	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Carbon Monoxide	0.575	5.3	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.265	2.44	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.178	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Total VOC	0.032	0.3	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	0.025	2.26	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	17.136	0	EPA Documents	Dust Suppressi	75	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	1.885	0	EPA Documents	Dust Suppressi	75	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	0.076	2.44	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Carbon Monoxide	0.017	1.03	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Total VOC	0.002	0.12	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	0.002	0.13	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Sulfur Oxides - SOx	0	0.01	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	0.2	2.44	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	0.046	1.03	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Total VOC	0.006	0.12	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	0.006	0.13	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	0	0.01	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Nitrogen Oxides - NOx	0.072	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Carbon Monoxide	0.015	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Total VOC	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* PM-10 (All Particulate Matter <10	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Sulfur Oxides - SOx	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
9	* Carbon Monoxide	0.107	1.7	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
9	* Nitrogen Oxides - NOx	0.005	0.04	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
9	* Total VOC	0.002	0.04	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
10	* PM-2.5 (All Particulate Matter <2.5	0.004	1.42	EPA Documents	Fabric Filter / B	99	* Uncontrolled	0
10	* PM-10 (All Particulate Matter <10	0.004	0	EPA Documents	Fabric Filter / B	99	* Uncontrolled	0
11	* PM-2.5 (All Particulate Matter <2.5	0.001	0.48	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
11	* PM-10 (All Particulate Matter <10	0.001	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	9953	Electric Power Generation Boiler - Unit #1	500	20	264	1917770	0

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2	9954	Electric Power Generaton Boiler - Unit #2	500	20	264	1917770	0
3	9955	Coal Screening and Handling	0	0	0	0	20
4	21424	Auxiliary Boiler Stack	109	2	1746	430	0
5	41838	Coal Pile	0	0	0	0	48
6	47152	#1 Emergency Generator	13	1	440	1	0
7	47153	#2 Emergency Generator	13	1	440	1	0
8	47237	Emergency Diesel Fire Pump	9	0.66	440	1	0
9	50627	Generac Model WT025A	3	0.12	975	220	0
10	138500	Activated Carbon Silo	50	1	75	0	0
11	138518	Activated Carbon Handling Road	0	0	0	0	1

ATTACHMENT 8

DRAFT

2017TEAM ID
1211**OG AND E**
SOONER GNRTNG STA

Wednesday, May 09, 2018

Updated: 3/29/2018

Address: 10800 COUNTY RD 230
RED ROCK OK 74651**Status:** Active
Class: Major
SIC: 4911**Directions:**
East of town on Hwy 177. Red
Rock, OK.
Intersection of Hwy 15 and 177.**Responsible Official****Contact:** HIXON, MICHAEL**Phone:** (405) 553-3031**Fax:****County:** NOBLE**Sub:** E/2**Section:** 23**Latitude:** 36.45183**Town:** 23N**Longitude:** -97.06352**Range:** 2E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	2240.03	630080
* Nitrogen Oxides - NOx	2443.329	
* PM-10 (All Particulate Matter <10	627.101	
* PM-2.5 (All Particulate Matter <2.5	522.425	
* Sulfur Oxides - SOx	9356.317	
* Total VOC	65.812	
1,1,1-Trichloroethane	0.004	71556
1,2,4-Trichlorobenzene	0.002	120821
1,2-Dibromoethane	0.01	106934
1,4-Dichlorobenzene	0	106467
2,4-Dinitrotoluene	0.052	121142
Acetaldehyde	0.058	75070
Acetophenone	0.21	98862
Acrolein	0.068	107028
Allyl chloride	0	107051
Antimony and Antimony compounds	0.007	
Arsenic Compounds (inorganic Includ	0.023	
Benzene	0.039	71432
Benzyl chloride	0.037	100447
Beryllium and Beryllium compounds	0.002	
Biphenyl	0.002	92524
Bromomethane	0	74839
Cadmium and Cadmium compounds	0.004	
Carbon disulfide	0.033	75150
Chlorobenzene	0.002	108907
Chloroethane	0	75003
Chloroform	0.003	67663
Chloromethane	0	74873
Chromium	0.066	7440473
Cobalt and Cobalt compounds	0.014	
Cresols (mixed isomers)	0	1319773
Dibenzofuran	0.054	132649
Dibutyl phthalate	0.014	84742
Dimethyl phthalate	0.017	131113
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.002	100414

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Formaldehyde	0.033	50000
Hexane	0.043	110543
Hydrogen chloride	14.9	7647010
Hydrogen fluoride	24.55	7664393
Lead and Lead compounds	0.037	
Manganese compounds	0.105	
Mercury and Mercury compounds	0.017	
Methyl iodide	0.008	74884
Methyl isobutyl ketone	0.171	108101
Methyl methacrylate	0	80626
Naphthalene	0.006	91203
Nickel and Nickel compounds	0.064	
Phenol	0.037	108952
POM (Polycyclic organic matter)	0.017	
Propionaldehyde	0.096	123386
Selenium and Selenium compounds	0.27	
Styrene	0.002	100425
Sulfuric acid	7.045	7664939
Tetrachloroethylene	0.002	127184
Toluene	0.031	108883
Vinyl acetate	0	108054
Vinyl chloride	0	75014
Xylenes (mixed isomers)	0.008	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Electric Power Generation Boiler (Combustion Engineering) - Unit #1	Operating	36.45664	-97.05033
2	Electric Power Generation Boiler (Combustion Engineering) - Unit #2	Operating	36.45681	-97.04952
3	Coal Crushing, Screening and Handling	Operating	36.45915	-97.04968
4	Auxiliary Boiler	Operating	36.45913	-97.04968
5	Coal Pile	Operating	36.45183	-97.06352
6	#1 Emergency Generator GM - Detroit Serial 73099	Operating	36.45183	-97.06352
7	#2 Emergency Generator GM-Detroit Serial # 73100	Operating	36.45183	-97.06352
8	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	Operating	36.45183	-97.06352
9	Generac Model WT025A	Operating	36.45183	-97.06352
10	Activated Carbon Handling Equipment	Operating	36.45183	-97.06352
11	Activated Carbon Handling Road Travel	Operating	36.45183	-97.06352

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	External Combustion Boilers, Ele	1062758.06	293.9	Tons	4398	24	7	10100226	N
1	External Combustion Boilers, Ele	331.86	4.87	1000 Gallons	4398	24	7	10100501	N
2	External Combustion Boilers, Ele	1127253.43	293.9	Tons	4542	24	7	10100226	N
2	External Combustion Boilers, Ele	500.90	4.87	1000 Gallons	174	24	7	10100501	N
3	Industrial Processes, Mineral Prod	2190011.00	800	Tons	8760	24	7	30510103	N
4	External Combustion Boilers, Ind	147305.40	242	Gallons	609	24	7	10200502	N
5	Industrial Processes, Mineral Prod	40.20	1	Acres	8760	24	7	30510303	N
6	Internal Combustion Engines, Ind	432.17	1	Gallons	11	24	7	20200401	N

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7	Internal Combustion Engines, Ind	610.60	1	Gallons	16	24	7	20200401	N
8	Internal Combustion Engines, Ind	113.62	1	Gallons	3	24	7	20200401	N
9	Internal Combustion Engines, Ind	110.39	4.15	Gallons	27	1	1	20201001	N
10	Industrial Processes, Mineral Prod	572.35	10	Tons	56	1	2	30510496	N
11	Industrial Processes, Mineral Prod	151.00	5.4	Miles	10	1	7	30510496	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Sulfur Oxides - SOx	4535.555	26884	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	1265.537	8291	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	* Nitrogen Oxides - NOx	1181.366	15682.6	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	187.648	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	163.591	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
1	* Total VOC	31.883	122	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen fluoride	11.9	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Hydrogen chloride	7.25	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Sulfuric acid	3.415	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	* PM-10 (All Particulate Matter <10	0.382	2240.4	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	* PM-2.5 (All Particulate Matter <2.5	0.257	2240.4	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Acetophenone	0.19	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0.131	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Methyl isobutyl ketone	0.083	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0.053	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Propionaldehyde	0.047	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0.033	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Acrolein	0.033	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	* Total VOC	0.033	122	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0.032	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Acetaldehyde	0.028	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Dibenzofuran	0.026	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	2,4-Dinitrotoluene	0.025	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Hexane	0.021	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0.019	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Benzene	0.019	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Phenol	0.018	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Benzyl chloride	0.018	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Carbon disulfide	0.016	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Toluene	0.015	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.01	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0.008	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0.008	0	Cont. Emissions Monit. D	Activated Carb	90	* Uncontrolled	0
1	Dimethyl phthalate	0.008	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Cobalt and Cobalt compounds	0.007	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Dibutyl phthalate	0.007	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	1,2-Dibromoethane	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Xylenes (mixed isomers)	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Formaldehyde	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0

SOONER GNRTNG STA

Updated: 3/29/2018

1	Methyl iodide	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Antimony and Antimony compounds	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Naphthalene	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	1,1,1-Trichloroethane	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Biphenyl	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Chloroform	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Ethylbenzene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Tetrachloroethylene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Chlorobenzene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
1	Styrene	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	1,2,4-Trichlorobenzene	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	1,4-Dichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Allyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl acetate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Arsenic Compounds (inorganic Includ	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloroethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Bromomethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Methyl methacrylate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Lead and Lead compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Selenium and Selenium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Chloromethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Beryllium and Beryllium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Dioxins/furans (non-HAP)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cresols (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Cadmium and Cadmium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Vinyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
1	Chromium	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	* Carbon Monoxide	0	800	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
1	Manganese compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Mercury and Mercury compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	POM (Polycyclic organic matter)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
1	Nickel and Nickel compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Sulfur Oxides - SOx	4820.746	26884	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* Nitrogen Oxides - NOx	1260.226	15682.6	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	974.008	8219	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	408.617	2240.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	356.083	2204.4	DEQ Approved Method	Electrostatic Pr	99.5	* Uncontrolled	0
2	* Total VOC	33.818	122	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen fluoride	12.65	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Hydrogen chloride	7.65	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	3.63	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	* PM-10 (All Particulate Matter <10	0.576	2240.4	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	* PM-2.5 (All Particulate Matter <2.5	0.388	2240.4	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0.139	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Methyl isobutyl ketone	0.088	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0.052	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0

SOONER GNRTNG STA

2	* Total VOC	0.05	122	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Propionaldehyde	0.049	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Acrolein	0.035	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0.033	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0.032	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Acetaldehyde	0.03	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Dibenzofuran	0.028	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	2,4-Dinitrotoluene	0.027	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Hexane	0.022	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Benzene	0.02	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Acetophenone	0.02	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Phenol	0.019	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Benzyl chloride	0.019	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0.018	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Carbon disulfide	0.017	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Toluene	0.016	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0.015	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Dimethyl phthalate	0.009	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0.009	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0.009	0	Cont. Emissions Monit. D	Activated Carb	90	* Uncontrolled	0
2	Cobalt and Cobalt compounds	0.007	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Dibutyl phthalate	0.007	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	1,2-Dibromoethane	0.005	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Methyl iodide	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Antimony and Antimony compounds	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Formaldehyde	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Xylenes (mixed isomers)	0.004	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Naphthalene	0.003	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Cadmium and Cadmium compounds	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	1,1,1-Trichloroethane	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chloroform	0.002	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Biphenyl	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Chlorobenzene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Styrene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	1,2,4-Trichlorobenzene	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Tetrachloroethylene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Ethylbenzene	0.001	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Cadmium and Cadmium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Allyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Dioxins/furans (non-HAP)	0	0	Similar Unit EPA RM Te	* Uncontrolled	0	* Uncontrolled	0
2	Selenium and Selenium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Beryllium and Beryllium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	* Carbon Monoxide	0	800	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
2	Arsenic Compounds (inorganic Includ	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	1,4-Dichlorobenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Manganese compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0

2017

TEAM ID
1211

OG AND E

Wednesday, May 09, 2018

SOONER GNRTNG STA

Updated: 3/29/2018

2	Chloromethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Chloroethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Cresols (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Bromomethane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl acetate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Nickel and Nickel compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Sulfuric acid	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Vinyl chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	POM (Polycyclic organic matter)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Chromium	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Methyl methacrylate	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
2	Lead and Lead compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
2	Mercury and Mercury compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
3	* PM-10 (All Particulate Matter <10	13.78	0	EPA Documents	Fabric Filter / B	90	* Uncontrolled	0
3	* PM-2.5 (All Particulate Matter <2.5	0.24	0	EPA Documents	Dust Suppressi	85	* Uncontrolled	0
4	* Nitrogen Oxides - NOx	1.473	21.2	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Carbon Monoxide	0.368	5.3	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	* PM-10 (All Particulate Matter <10	0.169	2.44	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	* PM-2.5 (All Particulate Matter <2.5	0.114	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Total VOC	0.021	0.3	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
4	* Sulfur Oxides - SOx	0.016	2.26	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	15.908	0	EPA Documents	Dust Suppressi	75	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	1.747	0	EPA Documents	Dust Suppressi	75	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	0.095	2.44	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Carbon Monoxide	0.024	1.03	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	0.002	0.13	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Total VOC	0.002	0.12	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Sulfur Oxides - SOx	0	0.01	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	0.134	2.44	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	0.034	1.03	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Total VOC	0.004	0.12	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	0.002	0.13	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	0	0.01	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Nitrogen Oxides - NOx	0.025	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Carbon Monoxide	0.006	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Sulfur Oxides - SOx	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
8	* Total VOC	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
8	* PM-10 (All Particulate Matter <10	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
9	* Carbon Monoxide	0.053	1.7	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
9	* Nitrogen Oxides - NOx	0.01	0.04	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
9	* Total VOC	0.001	0.04	Manuf. Test Data (w/ DE	* Uncontrolled	0	* Uncontrolled	0
10	* PM-2.5 (All Particulate Matter <2.5	0.004	1.42	EPA Documents	Fabric Filter / B	99	* Uncontrolled	0
10	* PM-10 (All Particulate Matter <10	0.004	0	EPA Documents	Fabric Filter / B	99	* Uncontrolled	0
11	* PM-10 (All Particulate Matter <10	0.013	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
11	* PM-2.5 (All Particulate Matter <2.5	0.001	0.48	EPA Documents	* Uncontrolled	0	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	9953	Electric Power Generation Boiler - Unit #1	500	20	264	1917770	0

2017TEAM ID
1211**OG AND E**
SOONER GNRTNG STA

Wednesday, May 09, 2018

Updated: 3/29/2018

2	9954	Electric Power Generaton Boiler - Unit #2	500	20	264	1917770	0
3	9955	Coal Screening and Handling	0	0	0	0	20
4	21424	Auxiliary Boiler Stack	109	2	1746	430	0
5	41838	Coal Pile	0	0	0	0	48
6	47152	#1 Emergency Generator	13	1	440	1	0
7	47153	#2 Emergency Generator	13	1	440	1	0
8	47237	Emergency Diesel Fire Pump	9	0.66	440	1	0
9	50627	Generac Model WT025A	3	0.12	975	220	0
10	138500	Activated Carbon Silo	50	1	75	0	0
11	138518	Activated Carbon Handling Road	0	0	0	0	1

ATTACHMENT 9

DRAFT

2016TEAM ID
212**PUBLIC SVC CO OF OK
PSO NORTHEASTERN PWR STA**

Wednesday, May 09, 2018

Updated: 3/31/2017

Address: SE OF HWY169 & HWY88
OOLOGAH OK 74053**Status:** Active**Directions:****Class:** MajorNear the junction of US HWY
169 & ST HWY 88. Follow HW
169 N from Tulsa, turn right (E)
on HWY 88. Station entrance is
about 2 blks ahead on right.**SIC:** 4911**Responsible Official****County:** ROGERS**Contact:** MCMAHON, MONTE**Sub:****Phone:** (918) 599-2285**Section:** 4**Latitude:** 36.42570**Fax:****Town:** 22N**Longitude:** -95.70134**Range:** 15E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	4525.228	630080
* Nitrogen Oxides - NOx	2238.344	
* PM-10 (All Particulate Matter <10	316.602	
* PM-2.5 (All Particulate Matter <2.5	287.728	
* Sulfur Oxides - SOx	4144.336	
* Total VOC	54.849	
1,3-Butadiene	0	106990
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.403	78591
Acetaldehyde	0.42	75070
Acrolein	0.206	107028
Antimony and Antimony compounds	0.006	
Arsenic Compounds (inorganic Includ	0.01	
Benzene	0.914	71432
Benzyl chloride	0.486	100447
Beryllium and Beryllium compounds	0.001	
Cadmium and Cadmium compounds	0.012	
Carbon disulfide	0.09	75150
Chloroform	0.041	67663
Chloromethane	0.369	74873
Chromium	0.027	7440473
Cobalt and Cobalt compounds	0.006	
Cyanide and Cyanide compounds	1.736	
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.086	100414
Fluoride	0	16984488
Formaldehyde	0.725	50000
Hexane	0.048	110543
Hydrogen chloride	3.977	7647010
Hydrogen fluoride	22.227	7664393
Lead and Lead compounds	0.015	
Manganese compounds	0.066	
Mercury and Mercury compounds	0.019	
Methyl Hydrazine	0.119	60344
Methylene chloride	0.202	75092
Naphthalene	0	91203
Nickel and Nickel compounds	0.033	

POM (Polycyclic organic matter)	0.014	
Propionaldehyde	0.264	123386
Propylene oxide	0.018	75569
Selenium and Selenium compounds	0.012	
Sulfuric acid	1.945	7664939
Toluene	0.246	108883
Xylenes (mixed isomers)	0.04	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
5	Electric Power Generation Boiler (Gas) - Unit #2	Operating	36.43226	-95.70115
6	Electric Power Generation Boiler (Coal) - Unit #3	Operating	36.42645	-95.69920
7	Electric Power Generation Boiler (Coal) - Unit #4	Operating	36.42645	-95.69920
8	Coal Conveying and Crushing	Operating	36.42788	-95.70230
9	Coal Stockpile	Operating	36.42780	-95.70111
10	Fly Ash Handling/Silo	Operating	36.42923	-95.70116
11	Bottom Ash Handling	Operating	36.42877	-95.70170
12	Fixed Roof Tank - Fuel Oil	Temporarily	36.43403	-95.69947
13	Auxiliary Boiler 1/2	Operating	36.43064	-95.70109
14	Auxiliary Boiler 3/4	Operating	36.43070	-95.70109
15	Emergency Diesel Generators (2)	Operating	36.43064	-95.70122
16	Electric Power Generation Turbine (GAS) Unit 1A	Operating	36.43123	-95.70114
17	Electric Power Generation Turbine (Gas) Unit 1B	Operating	36.43097	-95.70113
18	Ash Collection and Transportation	Operating	36.42962	-95.70113

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
5	External Combustion Boilers, Ele	0.00	0	1000 Gallons	0	0	0	10100501	N
5	External Combustion Boilers, Ele	3067257.30	4754	Million btus	1402	24	5	10100601	N
6	External Combustion Boilers, Ele	21423450.23	4775	Million btus	5163	24	7	10100226	N
6	External Combustion Boilers, Ele	257832.54	4775	Million btus	54	1	3	10100604	N
7	External Combustion Boilers, Ele	3785078.64	4775	Million btus	1036	23	6	10100204	N
7	External Combustion Boilers, Ele	28904.76	4775	Million btus	9	1	2	10100601	N
8	Industrial Processes, Mineral Prod	1389467.00	466	Tons	5191	24	7	30501011	N
9	Industrial Processes, Mineral Prod	618829.84	7700	Tons	8760	24	7	30510303	N
10	Industrial Processes, Mineral Prod	41967.00	150	Tons	7896	24	7	30510299	N
11	Industrial Processes, Mineral Prod	1638.39	6.49	Tons	672	24	1	30510299	N
12	Chemical Evaporation, Petroleum	0.00	0	1000 Gallons	0	0	0	40400121	N
12	Chemical Evaporation, Petroleum	0.00	0	1000 Gallons	0	0	0	40400122	N
13	External Combustion Boilers, Ele	17310.42	220	Million btus	157	10	2	10100601	N
14	External Combustion Boilers, Ele	115068.24	239	Million btus	1170	11	4	10100601	N
15	Internal Combustion Engines, Ele	4.14	14	Million btus	2	1	1	20100102	N
16	Internal Combustion Engines, Ele	9017194.65	1684	Million btus	6532	21	7	20100201	N
17	Internal Combustion Engines, Ele	9046859.03	1684	Million btus	6557	22	7	20100201	N
18	Industrial Processes, Mineral Prod	87546.00	24	Tons	7896	24	7	30510499	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
5	* Nitrogen Oxides - NOx	254.079	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	

5	* Carbon Monoxide	56.744	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	11.427	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	11.427	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Total VOC	8.269	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* Sulfur Oxides - SOx	0.92	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
5	Formaldehyde	0.113	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	Toluene	0.005	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Benzene	0.003	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Hexane	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Naphthalene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Cadmium and Cadmium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Lead and Lead compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Total VOC	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Selenium and Selenium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Mercury and Mercury compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	POM (Polycyclic organic matter)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Toluene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* Carbon Monoxide	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	Manganese compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Beryllium and Beryllium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Ethylbenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	Xylenes (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Arsenic Compounds (inorganic Includ	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Nitrogen Oxides - NOx	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Chromium	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Sulfur Oxides - SOx	0	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
5	Nickel and Nickel compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Carbon Monoxide	4166.861	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
6	* Sulfur Oxides - SOx	3341.976	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	1380.547	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	191.74	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	176.743	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	0
6	* Sulfur Oxides - SOx	40.221	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
6	* Total VOC	37.528	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	Hydrogen fluoride	18.892	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	16.604	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
6	* Carbon Monoxide	10.617	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	Hydrogen chloride	3.094	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
6	Sulfuric acid	1.677	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Cyanide and Cyanide compounds	1.479	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	0.961	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	0.961	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	Benzene	0.769	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0

6	* Total VOC	0.695	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Benzyl chloride	0.414	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.343	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Acetaldehyde	0.337	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Chloromethane	0.314	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Propionaldehyde	0.225	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Methylene chloride	0.172	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Acrolein	0.172	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Formaldehyde	0.142	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Toluene	0.142	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Methyl Hydrazine	0.101	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Carbon disulfide	0.077	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Ethylbenzene	0.056	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Manganese compounds	0.042	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Hexane	0.04	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Chloroform	0.035	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Nickel and Nickel compounds	0.027	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Chromium	0.022	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	POM (Polycyclic organic matter)	0.012	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Lead and Lead compounds	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Selenium and Selenium compounds	0.01	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Arsenic Compounds (inorganic Includ	0.008	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Cobalt and Cobalt compounds	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Antimony and Antimony compounds	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Mercury and Mercury compounds	0.004	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
6	Cadmium and Cadmium compounds	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Formaldehyde	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Hexane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	750.033	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	278.203	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	227.545	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	19.304	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	0
7	* PM-2.5 (All Particulate Matter <2.5	7.335	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	0
7	* Total VOC	6.63	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	5.728	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
7	Hydrogen fluoride	3.335	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	1.861	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
7	* Carbon Monoxide	1.19	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
7	Hydrogen chloride	0.883	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Sulfuric acid	0.268	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Cyanide and Cyanide compounds	0.257	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Benzene	0.134	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	* PM-2.5 (All Particulate Matter <2.5	0.108	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	* PM-10 (All Particulate Matter <10	0.108	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

7	* Total VOC	0.078	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	Benzyl chloride	0.072	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.06	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Acetaldehyde	0.059	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Chloromethane	0.055	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Propionaldehyde	0.039	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Methylene chloride	0.03	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Acrolein	0.03	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Toluene	0.025	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Formaldehyde	0.025	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Methyl Hydrazine	0.018	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Carbon disulfide	0.013	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Mercury and Mercury compounds	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Manganese compounds	0.01	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Ethylbenzene	0.01	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Hexane	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Chloroform	0.006	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Nickel and Nickel compounds	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Chromium	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Lead and Lead compounds	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Selenium and Selenium compounds	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Arsenic Compounds (inorganic Includ	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	POM (Polycyclic organic matter)	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Antimony and Antimony compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Cadmium and Cadmium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Formaldehyde	0.001	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Cobalt and Cobalt compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Hexane	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Beryllium and Beryllium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
8	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	0
8	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
9	* PM-10 (All Particulate Matter <10	0.022	0	EPA Documents	Dust Suppressi	90	* Uncontrolled	0
9	* PM-2.5 (All Particulate Matter <2.5	0.003	0	EPA Documents	Dust Suppressi	90	* Uncontrolled	0
10	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	Other Control	99	* Uncontrolled	0
10	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	Other Control	99	* Uncontrolled	0
11	* PM-2.5 (All Particulate Matter <2.5	0	0	EPA Documents	Other Control	99	* Uncontrolled	0
11	* PM-10 (All Particulate Matter <10	0	0	AP-42 Factors	Other Control	99	* Uncontrolled	0
12	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
12	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	0
13	* Carbon Monoxide	0.571	11.8	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
13	* Nitrogen Oxides - NOx	0.216	39.2	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
13	* PM-10 (All Particulate Matter <10	0.064	1.06	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
13	* PM-2.5 (All Particulate Matter <2.5	0.064	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
13	* Total VOC	0.047	0.77	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
13	* Sulfur Oxides - SOx	0.005	0.08	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

13	Formaldehyde	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
13	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
13	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
13	Hexane	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
14	* Nitrogen Oxides - NOx	4.603	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	* Carbon Monoxide	1.553	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	* PM-2.5 (All Particulate Matter <2.5	0.429	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* PM-10 (All Particulate Matter <10	0.429	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* Total VOC	0.31	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* Sulfur Oxides - SOx	0.034	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	Formaldehyde	0.004	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
14	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
14	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
14	Hexane	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
15	* Nitrogen Oxides - NOx	0.007	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* Carbon Monoxide	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* PM-10 (All Particulate Matter <10	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	Naphthalene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	* Sulfur Oxides - SOx	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	Ethylbenzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	* PM-2.5 (All Particulate Matter <2.5	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	Xylenes (mixed isomers)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
16	* Nitrogen Oxides - NOx	175.905	457	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
16	* PM-10 (All Particulate Matter <10	45.086	85.5	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
16	* PM-2.5 (All Particulate Matter <2.5	45.086	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
16	* Carbon Monoxide	3.607	237	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
16	* Sulfur Oxides - SOx	2.705	5.5	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
16	* Total VOC	0.645	1.92	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Formaldehyde	0.219	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Toluene	0.037	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Xylenes (mixed isomers)	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Acetaldehyde	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Ethylbenzene	0.01	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Propylene oxide	0.009	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Manganese compounds	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	Benzene	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Cadmium and Cadmium compounds	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	Acrolein	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Mercury and Mercury compounds	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	1,3-Butadiene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Naphthalene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
17	* Nitrogen Oxides - NOx	176.977	457	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
17	* PM-2.5 (All Particulate Matter <2.5	45.234	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	* PM-10 (All Particulate Matter <10	45.234	85.5	Permit Factors	* Uncontrolled	0	* Uncontrolled	0

17	* Carbon Monoxide	5.88	237	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	C
17	* Sulfur Oxides - SOx	2.714	5.5	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	C
17	* Total VOC	0.647	1.92	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Formaldehyde	0.219	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Toluene	0.037	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Xylenes (mixed isomers)	0.02	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Acetaldehyde	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Ethylbenzene	0.01	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Propylene oxide	0.009	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Manganese compounds	0.007	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Cadmium and Cadmium compounds	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Benzene	0.004	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Mercury and Mercury compounds	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Acrolein	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Naphthalene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	1,3-Butadiene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
18	* PM-10 (All Particulate Matter <10	2.219	0	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	C
18	* PM-2.5 (All Particulate Matter <2.5	0.336	0	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	C

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
5	8749	Electric Power Generation Boiler (Gas) - Unit #2	183	18	249	815626	0
6	8750	Electric Power Generation Boiler (Coal) - Unit #3	600	27	250	1556205	0
7	8751	Electric Power Generation Boiler (Coal) - Unit #4	600	27	250	1556205	0
8	8752	Coal Conveying and Crushing	0	0	0	0	100
9	14318	Coal Stockpile Fugitives	0	0	0	0	25
10	14319	Fly Ash Handling Fugitives	0	0	0	0	10
11	14320	Bottom Ash Handling Fugitives	0	0	0	0	5
12	14321	Fixed Roof Tank - Fuel Oil	0	0	0	0	50
13	15670	Auxiliary Boiler 1/2 Stack	168	4.5	555	45833	0
14	15671	Auxiliary Boiler 3/4 Stack	40	8	669	54287	0
15	16481	Emergency Diesel Generator Stacks	20	3	770	23000	0
16	17535	Electric Power Generation Turbine (GAS) Unit 1A	150	18.83	200	1080000	0
17	18069	Electric Power Generation Turbine (Gas) Unit 1B	150	18	200	1080000	0
18	39032	Ash Collection	0	0	0	0	12

ATTACHMENT 10

DRAFT

2017TEAM ID
212**PUBLIC SVC CO OF OK
PSO NORTHEASTERN PWR STA**

Wednesday, May 09, 2018

Updated: 5/2/2018

Address: SE OF HWY169 & HWY88
OOLOGAH OK 74053**Status:** Active**Directions:****Class:** MajorNear the junction of US HWY
169 & ST HWY 88. Follow HW
169 N from Tulsa, turn right (E)
on HWY 88. Station entrance is
about 2 blks ahead on right.**SIC:** 4911**Responsible Official****County:** ROGERS**Contact:** MCMAHON, MONTE**Sub:****Phone:** (918) 599-2285**Section:** 4**Latitude:** 36.42570**Fax:****Town:** 22N**Longitude:** -95.70134**Range:** 15E**EMISSIONS**

Pollutant	Estimated (tons)	Cas No.
* Carbon Monoxide	781.823	630080
* Nitrogen Oxides - NOx	1873.816	
* PM-10 (All Particulate Matter <10	138.806	
* PM-2.5 (All Particulate Matter <2.5	129.733	
* Sulfur Oxides - SOx	3884.234	
* Total VOC	49.586	
1,3-Butadiene	0	106990
3,5,5-Trimethyl-2-cyclohexen-1-one (	0.402	78591
Acetaldehyde	0.411	75070
Acrolein	0.203	107028
Antimony and Antimony compounds	0.006	
Arsenic Compounds (inorganic Includ	0.009	
Benzene	0.908	71432
Benzyl chloride	0.485	100447
Beryllium and Beryllium compounds	0.001	
Cadmium and Cadmium compounds	0.007	
Carbon disulfide	0.09	75150
Chloroform	0.041	67663
Chloromethane	0.367	74873
Chromium	0.024	7440473
Cobalt and Cobalt compounds	0.006	
Cyanide and Cyanide compounds	1.733	
Dioxins/furans (non-HAP)	0	
Ethylbenzene	0.077	100414
Fluoride	0	16984488
Formaldehyde	0.443	50000
Hexane	0.047	110543
Hydrogen chloride	3.677	7647010
Hydrogen fluoride	20.724	7664393
Lead and Lead compounds	0.014	
Manganese compounds	0.055	
Mercury and Mercury compounds	0.006	
Methyl Hydrazine	0.118	60344
Methylene chloride	0.201	75092
Naphthalene	0	91203
Nickel and Nickel compounds	0.03	

2017

TEAM ID
212PUBLIC SVC CO OF OK
PSO NORTHEASTERN PWR STA

Wednesday, May 09, 2018

Updated: 5/2/2018

POM (Polycyclic organic matter)	0.014	
Propionaldehyde	0.263	123386
Propylene oxide	0.011	75569
Selenium and Selenium compounds	0.011	
Sulfuric acid	1.837	7664939
Toluene	0.217	108883
Xylenes (mixed isomers)	0.025	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
5	Electric Power Generation Boiler (Gas) - Unit #2	Operating	36.43226	-95.70115
6	Electric Power Generation Boiler (Coal) - Unit #3	Operating	36.42645	-95.69920
7	Electric Power Generation Boiler (Coal) - Unit #4	Permanently	36.42645	-95.69920
8	Coal Conveying and Crushing	Operating	36.42788	-95.70230
9	Coal Stockpile	Operating	36.42780	-95.70111
10	Fly Ash Handling/Silo	Operating	36.42923	-95.70116
11	Bottom Ash Handling	Operating	36.42877	-95.70170
12	Fixed Roof Tank - Fuel Oil	Temporarily	36.43403	-95.69947
13	Auxiliary Boiler 1/2	Operating	36.43064	-95.70109
14	Auxiliary Boiler 3/4	Operating	36.43070	-95.70109
15	Emergency Diesel Generators (2)	Operating	36.43064	-95.70122
16	Electric Power Generation Turbine (GAS) Unit 1A	Operating	36.43123	-95.70114
17	Electric Power Generation Turbine (Gas) Unit 1B	Operating	36.43097	-95.70113
18	Ash Collection and Transportation	Operating	36.42962	-95.70113

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
5	External Combustion Boilers, Ele	0.00	0	1000 Gallons	0	0	0	10100501	N
5	External Combustion Boilers, Ele	2669810.74	4754	Million btus	1205	20	6	10100601	N
6	External Combustion Boilers, Ele	23572710.52	4775	Million btus	5831	23	7	10100226	N
6	External Combustion Boilers, Ele	127428.60	4775	Million btus	30	1	3	10100604	N
7	External Combustion Boilers, Ele	0.00	4775	Million btus	0	0	0	10100204	N
7	External Combustion Boilers, Ele	0.00	4775	Million btus	0	0	0	10100601	N
8	Industrial Processes, Mineral Prod	1386534.00	466	Tons	5831	23	7	30501011	N
9	Industrial Processes, Mineral Prod	551168.12	7700	Tons	8760	24	7	30510303	N
10	Industrial Processes, Mineral Prod	41111.00	150	Tons	7896	24	7	30510299	N
11	Industrial Processes, Mineral Prod	0.00	6.49	Tons	0	0	0	30510299	N
12	Chemical Evaporation, Petroleum	0.00	0	1000 Gallons	0	0	0	40400121	N
12	Chemical Evaporation, Petroleum	0.00	0	1000 Gallons	0	0	0	40400122	N
13	External Combustion Boilers, Ele	27368.20	220	Million btus	14	0	4	10100601	N
14	External Combustion Boilers, Ele	67844.28	239	Million btus	312	4	3	10100601	N
15	Internal Combustion Engines, Ele	42.02	14	Million btus	1	1	1	20100102	N
16	Internal Combustion Engines, Ele	5913568.31	1684	Million btus	4458	20	6	20100201	N
17	Internal Combustion Engines, Ele	5524538.49	1684	Million btus	4201	20	6	20100201	N
18	Industrial Processes, Mineral Prod	96494.06	24	Tons	7896	24	7	30510499	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
5	* Nitrogen Oxides - NOx	224.243	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	

5	* PM-10 (All Particulate Matter <10	9.937	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	9.937	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Total VOC	7.084	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* Carbon Monoxide	2.67	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
5	* Sulfur Oxides - SOx	0.801	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
5	Toluene	0.004	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Benzene	0.003	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Hexane	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	Nickel and Nickel compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Manganese compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Cadmium and Cadmium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Toluene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	Lead and Lead compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Naphthalene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Sulfur Oxides - SOx	0	0	EPA Documents	* Uncontrolled	0	* Uncontrolled	0
5	Beryllium and Beryllium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Mercury and Mercury compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Arsenic Compounds (inorganic Includ	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Chromium	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Fluoride	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-2.5 (All Particulate Matter <2.5	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Carbon Monoxide	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Formaldehyde	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	Ethylbenzene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	POM (Polycyclic organic matter)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* Total VOC	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Formaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
5	Xylenes (mixed isomers)	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
5	* Nitrogen Oxides - NOx	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	Selenium and Selenium compounds	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
5	* PM-10 (All Particulate Matter <10	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Sulfur Oxides - SOx	3859.111	0	Cont. Emissions Monit. D	Dry Sorbent Inj	90	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	1446.731	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
6	* Carbon Monoxide	766.113	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
6	* PM-10 (All Particulate Matter <10	66.004	0	EPA RM Stack Test	Electrostatic Pr	99	Fabric Filter / B	99.99
6	* PM-2.5 (All Particulate Matter <2.5	61.289	0	EPA RM Stack Test	Electrostatic Pr	99	Fabric Filter / B	99.99
6	* Total VOC	41.082	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	* Sulfur Oxides - SOx	20.861	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
6	Hydrogen fluoride	20.724	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	* Nitrogen Oxides - NOx	7.805	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
6	* Carbon Monoxide	5.247	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	Hydrogen chloride	3.677	0	EPA RM Stack Test	Dry Sorbent Inj	33	* Uncontrolled	0
6	Sulfuric acid	1.837	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Cyanide and Cyanide compounds	1.733	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Benzene	0.901	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Benzyl chloride	0.485	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	* PM-2.5 (All Particulate Matter <2.5	0.475	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

6	* PM-10 (All Particulate Matter <10	0.475	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
6	3,5,5-Trimethyl-2-cyclohexen-1-one (	0.402	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Acetaldehyde	0.395	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Chloromethane	0.367	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	* Total VOC	0.344	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Propionaldehyde	0.263	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Methylene chloride	0.201	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Acrolein	0.201	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Toluene	0.166	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Formaldehyde	0.166	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Methyl Hydrazine	0.118	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Carbon disulfide	0.09	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Ethylbenzene	0.065	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Manganese compounds	0.046	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Hexane	0.046	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Chloroform	0.041	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Nickel and Nickel compounds	0.03	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Chromium	0.024	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	POM (Polycyclic organic matter)	0.014	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Lead and Lead compounds	0.014	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Selenium and Selenium compounds	0.011	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Arsenic Compounds (inorganic Includ	0.009	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Cobalt and Cobalt compounds	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Antimony and Antimony compounds	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Mercury and Mercury compounds	0.004	0	EPA RM Stack Test	Activated Carb	87	* Uncontrolled	0
6	Cadmium and Cadmium compounds	0.003	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Beryllium and Beryllium compounds	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Formaldehyde	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Hexane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
6	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
6	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
6	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Propionaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Formaldehyde	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
7	Hydrogen chloride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Sulfuric acid	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Nickel and Nickel compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Manganese compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	* Nitrogen Oxides - NOx	0	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	0
7	Chloromethane	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	3,5,5-Trimethyl-2-cyclohexen-1-one (	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Carbon Monoxide	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
7	Dioxins/furans (non-HAP)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	Acetaldehyde	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	POM (Polycyclic organic matter)	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
7	* Sulfur Oxides - SOx	0	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
7	Cadmium and Cadmium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
7	Chloroform	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0

7	* PM-10 (All Particulate Matter <10	0	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	
7	* PM-2.5 (All Particulate Matter <2.5	0	0	EPA RM Stack Test	Electrostatic Pr	99	* Uncontrolled	
7	* PM-10 (All Particulate Matter <10	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Lead and Lead compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	Methyl Hydrazine	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Beryllium and Beryllium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Hydrogen fluoride	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	Formaldehyde	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	Hexane	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Cyanide and Cyanide compounds	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	Carbon disulfide	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Ethylbenzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Mercury and Mercury compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	Benzyl chloride	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Methylene chloride	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	Benzene	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Cobalt and Cobalt compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	Antimony and Antimony compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	Selenium and Selenium compounds	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	* Nitrogen Oxides - NOx	0	0	Cont. Emissions Monit. D	Low Nox Burne	80	* Uncontrolled	
7	* Carbon Monoxide	0	0	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	
7	Acrolein	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
7	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	* Sulfur Oxides - SOx	0	0	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	
7	Chromium	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
7	* PM-2.5 (All Particulate Matter <2.5	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	Hexane	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	
7	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
7	Arsenic Compounds (inorganic Includ	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
8	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	Fabric Filter / B	99	* Uncontrolled	
8	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	
9	* PM-10 (All Particulate Matter <10	0.02	0	EPA Documents	Dust Suppressi	90	* Uncontrolled	
9	* PM-2.5 (All Particulate Matter <2.5	0.003	0	EPA Documents	Dust Suppressi	90	* Uncontrolled	
10	* PM-10 (All Particulate Matter <10	0.004	0	AP-42 Factors	Other Control	99	* Uncontrolled	
10	* PM-2.5 (All Particulate Matter <2.5	0.001	0	AP-42 Factors	Other Control	99	* Uncontrolled	
11	* PM-10 (All Particulate Matter <10	0	0	AP-42 Factors	Other Control	99	* Uncontrolled	
11	* PM-2.5 (All Particulate Matter <2.5	0	0	EPA Documents	Other Control	99	* Uncontrolled	
12	* Total VOC	0	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
12	* Total VOC	0	0	TANKS	* Uncontrolled	0	* Uncontrolled	
13	* Carbon Monoxide	0.903	11.8	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
13	* Nitrogen Oxides - NOx	0.342	39.2	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	
13	* PM-10 (All Particulate Matter <10	0.1	1.06	Mass Balance	* Uncontrolled	0	* Uncontrolled	
13	* PM-2.5 (All Particulate Matter <2.5	0.1	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	
13	* Total VOC	0.073	0.77	Mass Balance	* Uncontrolled	0	* Uncontrolled	
13	* Sulfur Oxides - SOx	0.008	0.08	Mass Balance	* Uncontrolled	0	* Uncontrolled	

13	Toluene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
13	Formaldehyde	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
13	Hexane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
13	Benzene	0	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
14	* Nitrogen Oxides - NOx	2.714	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	* Carbon Monoxide	0.916	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	* PM-10 (All Particulate Matter <10	0.253	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* PM-2.5 (All Particulate Matter <2.5	0.253	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* Total VOC	0.183	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	* Sulfur Oxides - SOx	0.02	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
14	Formaldehyde	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	Hexane	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
14	Toluene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
14	Benzene	0	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
15	* Nitrogen Oxides - NOx	0.067	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* Carbon Monoxide	0.018	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* Total VOC	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* Sulfur Oxides - SOx	0.002	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* PM-2.5 (All Particulate Matter <2.5	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	* PM-10 (All Particulate Matter <10	0.001	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
15	Formaldehyde	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Ethylbenzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Naphthalene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Benzene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Xylenes (mixed isomers)	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
15	Toluene	0	0	FIRE Data Factors	* Uncontrolled	0	* Uncontrolled	0
16	* Nitrogen Oxides - NOx	109.344	457	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
16	* PM-2.5 (All Particulate Matter <2.5	29.568	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
16	* PM-10 (All Particulate Matter <10	29.568	85.5	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
16	* Carbon Monoxide	2.365	237	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	0
16	* Sulfur Oxides - SOx	1.774	5.5	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
16	* Total VOC	0.423	1.92	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Formaldehyde	0.143	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Toluene	0.024	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Xylenes (mixed isomers)	0.013	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Acetaldehyde	0.008	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Propylene oxide	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Ethylbenzene	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Manganese compounds	0.005	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	Cadmium and Cadmium compounds	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	Benzene	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Mercury and Mercury compounds	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	0
16	Acrolein	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	Naphthalene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
16	1,3-Butadiene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	0
17	* Nitrogen Oxides - NOx	82.57	457	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	0
17	* PM-10 (All Particulate Matter <10	27.623	85.5	Permit Factors	* Uncontrolled	0	* Uncontrolled	0
17	* PM-2.5 (All Particulate Matter <2.5	27.623	0	Permit Factors	* Uncontrolled	0	* Uncontrolled	0

2017

TEAM ID
212

PUBLIC SVC CO OF OK

Wednesday, May 09, 2018

PSO NORTHEASTERN PWR STA

Updated: 5/2/2018

17	* Carbon Monoxide	3.591	237	EPA RM Stack Test	* Uncontrolled	0	* Uncontrolled	C
17	* Sulfur Oxides - SOx	1.657	5.5	Cont. Emissions Monit. D	* Uncontrolled	0	* Uncontrolled	C
17	* Total VOC	0.395	1.92	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Formaldehyde	0.134	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Toluene	0.023	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Xylenes (mixed isomers)	0.012	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Acetaldehyde	0.008	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Ethylbenzene	0.006	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Propylene oxide	0.005	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Manganese compounds	0.004	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Cadmium and Cadmium compounds	0.002	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Benzene	0.002	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Acrolein	0.001	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	Mercury and Mercury compounds	0.001	0	AP-42 Factors	* Uncontrolled	0	* Uncontrolled	C
17	Naphthalene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
17	1,3-Butadiene	0	0	DEQ Approved Method	* Uncontrolled	0	* Uncontrolled	C
18	* PM-10 (All Particulate Matter <10	4.817	0	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	C
18	* PM-2.5 (All Particulate Matter <2.5	0.482	0	AP-42 Factors	Fabric Filter / B	99.9	* Uncontrolled	C

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
5	8749	Electric Power Generation Boiler (Gas) - Unit #2	183	18	249	815626	0
6	8750	Electric Power Generation Boiler (Coal) - Unit #3	600	27	250	1556205	0
7	8751	Electric Power Generation Boiler (Coal) - Unit #4	600	27	250	1556205	0
8	8752	Coal Conveying and Crushing	0	0	0	0	100
9	14318	Coal Stockpile Fugitives	0	0	0	0	25
10	14319	Fly Ash Handling Fugitives	0	0	0	0	10
11	14320	Bottom Ash Handling Fugitives	0	0	0	0	5
12	14321	Fixed Roof Tank - Fuel Oil	0	0	0	0	50
13	15670	Auxiliary Boiler 1/2 Stack	168	4.5	555	45833	0
14	15671	Auxiliary Boiler 3/4 Stack	40	8	669	54287	0
15	16481	Emergency Diesel Generator Stacks	20	3	770	23000	0
16	17535	Electric Power Generation Turbine (GAS) Unit 1A	150	18.83	200	1080000	0
17	18069	Electric Power Generation Turbine (Gas) Unit 1B	150	18	200	1080000	0
18	39032	Ash Collection	0	0	0	0	12