

**ENGINEERING ANALYSIS
WAYNE-SANDERSON FARMS, LLC
DECATUR PREPARED FOODS
DECATUR, MORGAN COUNTY
FACILITY NO. 712-0091
SMOP NO. X006 SOURCE NO. 57**

On September 24, 2026, the Air Division received a complete Air Permit application from Wayne-Sanderson Farms, LLC (WSF) for the proposed installation of a new 16.8 MMBtu/hr Hurst Natural Gas-fired boiler (NGF) at the west plant of the Decatur Prepared Foods processing plant located in Decatur, Morgan County. The proposed boiler would replace the existing 16.329 MMBtu/hr Cleaver Brooks NGF boiler (Source No. 37). The facility is currently a synthetic minor source under Title V regulations and a minor source under PSD regulations. WSF previously requested a facility-wide natural gas usage limit of 911.12 MMcf to reduce its potential NO_x emissions. The limit remains in place to keep facility-wide NO_x emissions below the major source threshold with regard to Title V regulations. After the installation of the proposed boiler, the facility would remain a synthetic minor source under Title V regulations and remain a minor source under PSD regulations. Synthetic Minor Operating Permit (SMOP) No. 712-0091-X006 would be issued to reflect the addition of the proposed boiler to be included with the existing fuel-burning equipment subject to NSPS, Subpart Dc, and SMOP No. 712-0091-X005 would be voided.

Proposed Construction

SMOP X006 (formerly SMOP X005)

- Install a new 16.8 MMBtu/hr Hurst Natural Gas-fired Boiler (Source No. 57)
- Remove the existing 16.329 MMBtu/hr Cleaver Brooks Natural Gas-fired Boiler (Source No. 37)

Facility Operations

Wayne-Sanderson Farms currently operates the following emissions sources:

East Plant

- Cooking Line 48
- Two (2) 7.49 MMBtu/hr Thermal Fluid Heaters (Source No. 11 & 12, Supplying Line 48)
- Cooking Line 45
- Cooking Line 46
- Two (2) 7.49 MMBtu/hr Thermal Fluid Heaters (Source No. 13 & 14, Supplying Line 45 and Line)
- Cooking Line 49
- Boiler No. 1 – 25.1 MMBtu/hr Cleaver Brooks Boiler (Source No. 19)
- Boiler No. 2 – 25.1 MMBtu/hr Cleaver Brooks Boiler (Source No. 20)
- Boiler No. 3 – 25.1 MMBtu/hr Cleaver Brooks Boiler (Source No. 21)
- Water Heater No. 1 – 15.0 MMBtu/hr Quikwater Water Heater (Source No. 22)
- 132 hp Kohler Emergency Generator (Source No. 23)

West Plant

- Cooking Line 51
- Cooking Line 52

- Two (2) 9.99 MMBtu/hr Thermal Fluid Heaters (Source No. 29a & 29b, Supplying Line 51 and Line 52)
- Cooking Line 53
- Cooking Line 55
- 13.793 MMBtu/hr Fulton Thermal Fluid Heater (Supplying Line 55) (Source No. 56)
- 12.49 MMBtu/hr Thermal Fluid Heater (Supplying Line 53) (Source No. 36)
- Boiler No. 4 – 16.8 MMBtu/hr Johnston Boiler (Source No. 43)
- Boiler No. 5 – 16.8 MMBtu/hr Cleaver Brooks Boiler (Source No. 52)
- Boiler No. 6 – 16.329 MMBtu/hr Cleaver Brooks Boiler (Source No. 37)
- Water Heater No. 2 – 25.05 MMBtu/hr Kemco Water Heater (Source No. 53)
- 260 hp Kohler Emergency Generator (Source No. 33)
- 210 hp Clarke Emergency Fire Pump Engine

Customer Innovation Center

- 1.26 MMBtu/hr Hurst NGF boiler
- 0.199 MMBtu/hr AO Smith NGF water heater
- 0.25 TPH Northum Protherm Fryer (Source No. 49)
- 0.25 TPH Marlen Steam Oven (Source No. 50)
- 0.92 MMBtu/hr Fulton Fluid Heater (Source No. 51, Supplying heat for the fryer)

Emissions

The pollutants of concern emitted from the proposed boiler would be the products of combustion, which include, nitrogen oxide (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), sulfur dioxide (SO₂), and particulate matter (PM), particulate matter ≤ 10 microns (PM₁₀), particulate matter ≤ 2.5 microns (PM_{2.5}), and particulate matter condensables (PM_{con}). Emissions from the proposed boiler were estimated using the appropriate AP-42 emissions factors. A facility-wide emissions summary is included as Appendix A and unit specific emissions calculations are included in Appendix B.

State Regulations

ADEM Admin. Code r. 335-3-4-.01, “Control of Particulate Emissions: Visible Emissions”

The proposed boiler would be subject to the State visible emission standards of ADEM Admin. Code r. 335-3-4-.01(1), which states that no air emission source may emit particulate of an opacity greater than 20% (as measured by a six-minute average) more than once during any 60-minute period and at no time shall emit particulate of an opacity greater than 40% (as measured by a six-minute average).

ADEM Admin. Code r. 335-3-4-.03, “Control of Particulate Emissions: Fuel Burning Equipment”

Per Appendix A in ADEM Admin. Code div. 335-3, Morgan County is designated as a Class I County for PM emissions. The proposed boiler would be subject to the State particulate emission standard found in ADEM Admin. Code r. 335-3-4-.03(1) and would be subject to the applicable emission rates for a new source as calculated by the equation $E = 1.38H^{-0.44}$, where E = emissions in lb/million BTU

and H = heat input in millions of BTU/hr. The proposed boiler would be expected to be able to comply with the applicable standards since the unit would utilize natural gas only.

ADEM Admin. Code r. 335-3-5-.01, "Control of Sulfur Compound Emissions: Fuel Combustion"

Per Appendix B in ADEM Admin. Code Division 335-3, Morgan County is designated as a Category II County for SO₂ emissions. The proposed boiler would be subject to ADEM Admin. Code r. 335-3-5-.01(1)(b), the State SO₂ emission standard of 4.0 pounds per million BTU heat input. The proposed boiler would be expected to be able to comply with the applicable standard because the unit would utilize natural gas only.

Federal Regulations

Title V

For the purposes of Title V, PM₁₀ rather than PM, is considered for applicability. The facility is currently a synthetic minor source under Title V regulations. After installation of the proposed boiler, the facility would remain a synthetic minor source under Title V regulations because the potential emissions for NO_x would exceed 100 TPY without the retention of the facility-wide natural gas usage limit of 911.12 MMcf to remain below the major source threshold for Title V. After installation of the proposed boiler, the potential emissions of each individual hazardous air pollutant (HAP) would remain below 10 TPY, and the potential emissions of combined HAP would remain below 25 TPY.

PSD

The facility operations are not one of the 28 listed major source categories, and the facility is located in an attainment area for all criteria pollutants. Therefore, the major source threshold of concern is 250 TPY for criteria pollutants. This facility is currently a minor source under PSD regulations. After installation of the proposed boiler, the facility would remain a minor source under PSD regulations.

NSPS

40 CFR Part 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (Subpart Dc) [Adopted by reference in ADEM Admin. Code r. 335-3-10-.02(2)(c)]

Based on the size (16.8 MMBtu/hr) and date of manufacture (2026), the proposed boiler would be subject to 40 CFR Part 60, Subpart Dc, New Source Performance Standards for Small Industrial, Commercial, and Institutional Steam Generating Units (Subpart Dc). The unit would be exclusively natural gas-fired; therefore, the facility would be subject to the recordkeeping requirements listed in 40 CFR §60.48c(g) to maintain fuel usage records.

NESHAP/MACT

Per 40 CFR §63.2 this facility is considered an area source for hazardous air pollutants (HAP) because potential emissions do not exceed 10 tons per year or more of any single HAP or 25 tons per year or more of any combination of HAP.

40 CFR Part 63, Subpart JJJJJJ, the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (Subpart JJJJJJ)

The proposed boiler meets the definition of a gas-fired boiler as listed in 40 CFR §63.11237; therefore, in accordance with 40 CFR §63.11195(e), it would not be subject to Subpart JJJJJJ.

Air Quality Impact

This facility is located in Morgan County, an attainment area for all criteria pollutants, and is located ~47 km from the Sipsey Wilderness Area, the nearest Class I Area. However, emissions from the proposed boiler would not be expected to significantly impact this area.

Emission Testing

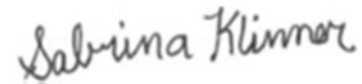
I recommend that no emissions testing be required at this time because unit specific calculations in Appendix B indicate the proposed boiler would be expected to be able to comply with all State and federal emission standards.

Public Comment

A 15-day public comment period would be required because the proposed boiler would require the issuance of a Synthetic Minor Operating Permit to establish federally enforceable limitations to limit the facility-wide NO_x emissions below the Title V major source thresholds.

Recommendations

I recommend that SMOP No. 712-0091-X006 be issued to WSF for the proposed new 16.8 MMBtu/hr Hurst natural gas-fired boiler (Source No. 57) to replace the existing 16.329 MMBtu/hr Cleaver Brooks natural gas-fired boiler (Source No. 37) at the west plant. Upon issuance of SMOP No. 712-0091-X006, SMOP Permit No. 712-0091-X005 would be voided.



Sabrina Kliner
Chemical Branch
Air Division

September 30, 2026
Date

3197 712-0091 103 09-30-2026 SMOPEA SDK SMOP X006 SOURCE NO 57

Appendix A
Wayne-Sanderson Farms LLC - Decatur Prepared Foods- 712-0091
SMOP No. X006

Facility Wide Emissions (TPY)

Cooking Line	Source ID	PM		PM ₁₀ /PM _{2.5}		PM _{con}		VOC		SO ₂		NO _x		CO	
		Potential	Expected	Potential	Expected	Potential	Expected	Potential	Expected	Potential	Expected	Potential	Expected	Potential	Expected
48	11	0.25	0.21	0.06	0.05	0.16	0.16	0.18	0.15	0.02	0.02	3.28	2.73	2.76	2.30
	12	0.25	0.21	0.06	0.05	0.16	0.16	0.18	0.15	0.02	0.02	3.28	2.73	2.76	2.30
	45	0.85	0.85	0.81	0.81	0.51	0.51	1.07	1.07						
45	04	1.77	1.77	1.66	1.66	1.06	1.06	2.90	2.90						
	44	0.24	0.24	0.22	0.22	0.14	0.14	0.11	0.11						
	13	0.25	0.21	0.06	0.05	0.16	0.16	0.18	0.15	0.02	0.02	3.28	2.73	2.76	2.30
	17 COOK	1.67	1.67	1.57	1.57	1.00	1.00	0.96	0.96						
	17 COMB	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.002	0.002	0.34	0.29	0.28	0.25
46	46	0.71	0.71	0.80	0.68	0.43	0.43	0.89	0.89						
	05	1.77	1.77	1.66	1.66	1.06	1.06	2.90	2.90						
	14	0.25	0.21	0.06	0.05	0.16	0.16	0.18	0.15	0.02	0.02	3.28	2.73	2.76	2.30
49	39 COOK	0.41	0.41	0.39	0.39	0.25	0.25	0.24	0.24						
	39 COMB	0.06	0.05	0.02	0.01	0.04	0.04	0.05	0.04	0.00	0.00	0.83	0.69	0.70	0.58
51	40	0.44	0.44	0.85	0.85	0.26	0.26	0.20	0.20						
	29(a)	0.28	0.28	0.07	0.07	0.21	0.21	0.20	0.20	0.02	0.02	4.38	3.65	3.68	3.07
52	42	0.85	0.85	0.81	0.81	0.51	0.51	1.07	1.07						
	28	2.12	2.12	1.99	1.99	1.28	1.28	3.48	3.48						
	29(b)	0.28	0.28	0.07	0.07	0.21	0.21	0.20	0.20	0.02	0.02	4.38	3.65	3.68	3.07
53	41	0.85	0.85	1.35	1.35	0.51	0.51	1.07	1.07						
	35	2.12	2.12	1.99	1.99	1.28	1.28	3.48	3.48						
55	54	0.85	0.85	0.80	0.80	0.51	0.51	1.34	1.34						
	55	2.12	2.12	1.99	1.99	1.28	1.28	2.90	2.90						
	36 ¹	0.35	0.35	0.09	0.09	0.26	0.26	0.20	0.20	0.03	0.03	5.47	4.56	4.60	3.83
SMOP X005 - Fluid Heaters, Boilers, & Water Heaters	19 ¹	0.84	0.84	0.21	0.21	0.63	0.63	0.61	0.61	0.07	0.07	10.99	10.99	9.24	9.33
	20 ¹	0.84	0.84	0.21	0.21	0.63	0.63	0.61	0.61	0.07	0.07	10.99	10.99	9.24	9.33
	21 ¹	0.84	0.84	0.21	0.21	0.63	0.63	0.61	0.61	0.07	0.07	10.99	10.99	9.24	9.33
	22 ¹	0.50	0.50	0.13	0.13	0.37	0.37	0.36	0.36	0.04	0.04	6.57	6.57	5.52	5.52
	37 ¹	0.54	0.54	0.14	0.14	0.40	0.40	0.39	0.39	0.04	0.04	7.14	7.14	6.01	6.01
	43 ¹	0.56	0.56	0.14	0.14	0.42	0.42	0.40	0.34	0.04	0.04	7.36	7.36	6.18	5.15
	52 ¹	0.56	0.56	0.14	0.14	0.42	0.42	0.40	0.41	0.04	0.04	7.36	7.36	6.18	6.18
	53 ¹	0.83	0.83	0.21	0.21	0.63	0.63	0.60	0.60	0.07	0.07	10.97	10.97	9.22	9.22
	56 ¹	0.38	0.38	0.10	0.10	0.29	0.29	0.33	0.28	0.03	0.03	6.04	5.03	5.07	4.23
	23	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.66	0.66	1.12	1.12
Customer Innovation Center (Boiler, Water Heater, Fryer, Oven)	33	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	1.06	1.06	1.78	1.78
	Fire Pump	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.11	0.11	1.63	1.63	0.35	0.35
	47	0.04	0.04	0.01	0.01	0.03	0.03	0.03	0.03	0.00	0.00	0.55	0.55	0.46	0.46
	48	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.09	0.09	0.07	0.07
	49	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
	50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
	51	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.34	0.10	0.28	0.08
EXISTING TOTAL		24.85	24.68	19.02	18.85	16.02	16.02	28.52	28.29	0.72	0.72	111.26	105.25	93.93	88.14
X004-Boilers & Water Heaters w/ Fuel Limit ²	Includes 19, 20, 21, 22, 36, 37, 43, 52, 53, 56	3.46	3.46	0.86	0.86	2.60	2.60	2.51	2.51	0.27	0.27	45.56	45.56	38.27	38.27
LIMITED TOTAL³		21.82	21.70	18.25	18.09	13.79	13.79	26.34	26.24	0.48	0.48	69.66	66.12	58.95	55.99
Remove SMOP X005 - 16.329 MMBT/hr Cleaver Brooks NGF Boiler (Source No. 37)	37 ¹	-0.54	-0.54	-0.14	-0.14	-0.40	-0.40	-0.39	-0.39	-0.04	-0.04	-7.14	-7.14	-6.01	-6.01
Add SMOP X006 - 16.8 Hurst NGF Boiler (Source No. 57)	57 ¹	0.56	0.49	0.14	0.12	0.42	0.35	0.40	0.28	0.04	0.04	7.36	6.13	6.18	5.15
PROPOSED TOTAL		24.86	24.63	19.02	18.83	16.04	15.97	28.53	28.18	0.72	0.71	111.48	104.24	94.10	87.28
PROPOSED LIMITED TOTAL³		21.83	21.64	18.26	18.08	13.81	13.74	26.35	26.13	0.48	0.48	69.88	65.11	59.12	55.14

Updated 09-30-2026

¹ Unit is included in proposed SMOP No. X006. Max emissions indicated on this row. Reduced emissions reflected in proposed X006 values.

² The total emission limit was set in place to maintain minor status for the entire facility by limiting the facility-wide natural gas usage to 911.12 MMcf per year.

³ The limited total only includes permitted emission limits from proposed X006 and not the max emissions for each individual unit previously included in rows above.

Appendix B
Wayne-Sanderson Farms LLC - Decatur Prepared Foods - 712-0091

SMOP X006 - Source No. 57- 16.8 MMBtu/hr Hurst NGF Boiler

Operating Parameters:

Operating Capacity:	16.8	MMBtu/hr	County Location:	Morgan
Max Hours of Operation:	8,760	hr/yr	County PM Class:	1
Actual Hours of Operation:	7,300	hr/yr	County SO2 Category:	II
Control Device Efficiency:	N/A		New Source?:	Y
Fuel Source:	Natural Gas			
Fuel Heat Content:	1000	Btu/scf		

Allowable PM Emissions: ADEM Admin. Code r. 335-3-4-.03(1)

E= 1.38 H^{-0.44} Where: E=Emissions in lb/MMBtu
H=Heat input in MMBtu/hr

$$E = 1.38 \frac{16.8 \text{ MMBtu}}{\text{hr}}^{-0.44} = \frac{0.40 \text{ lb}}{\text{MMBtu}}$$

$$\frac{0.40 \text{ lb}}{\text{MMBtu}} \times \frac{16.8 \text{ MMBtu}}{\text{hr}} = \frac{6.70 \text{ lb}}{\text{hr}} \text{ or } 29.34 \text{ TPY}$$

Allowable SO2 Emissions: ADEM Admin. Code r. 335-3-5-.01(1)(b)

$$E = \frac{4 \text{ lb}}{\text{MMBtu}} \times \frac{16.8 \text{ MMBtu}}{\text{hr}} = \frac{67.2 \text{ lb}}{\text{hr}} \text{ or } 294.34 \text{ TPY}$$

Potential/Expected Emissions

AP-42 Factors for External Combustion Sources (Table No. 1.4-1 through 1.4-4, Rev. 7/98)

Fuel Usage:

$$\frac{16.8 \times 10^6 \text{ Btu}}{\text{hr}} \times \frac{1 \text{ cf}}{1000 \text{ Btu}} = \frac{16,800 \text{ cf}}{\text{hr}}$$

NO_x

$$\frac{100 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{1.680 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 7.36 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 6.13 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

CO

$$\frac{84 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{1.411 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 6.18 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 5.15 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

SO₂

$$\frac{0.6 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.010 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.04 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.04 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

VOC

$$\frac{5.5 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.092 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.40 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.34 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

PM^{1,2}

$$\frac{1.9 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.032 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.14 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.12 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

PM₁₀^{1,2}

$$\frac{1.9 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.032 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.14 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.12 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

PM_{2.5}^{1,2}

$$\frac{1.9 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.032 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.14 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.12 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

PM_{CON}²

$$\frac{5.7 \text{ lb}}{10^6 \text{ cf}} \times \frac{16,800 \text{ cf}}{\text{hr}} = \frac{0.096 \text{ lb}}{\text{hr}} \text{ or } \begin{matrix} 0.42 \text{ TPY @ } 8,760 \text{ hr/yr} \\ 0.35 \text{ TPY @ } 7,300 \text{ hr/yr} \end{matrix}$$

PM₁₀ (filterable + condensable)²	PM_{2.5} (filterable + condensable)²
0.128 lb/hr 0.56 TPY @ 8760 hr/yr	0.128 lb/hr 0.56 TPY @ 8760 hr/yr
0.49 TPY @ 7300 hr/yr	0.49 TPY @ 7300 hr/yr

¹ Amendments to 40 CFR Parts 51 and 52 effective December 24, 2012, removed the requirement to include condensable emissions as part of PM emissions. The requirement to include condensable for PM10 and PM2.5 as part of a NAAQS pollutant remained.

² AP-42 Chapter 1.4 - Natural Gas Combustion rev. July 1998, TABLE 1.4-2 Footnote c: All PM (total, condensable, and filterable) is assumed to be less than 1.0 micrometer in diameter.

Appendix B
Wayne-Sanderson Farms LLC - Decatur Prepared Foods - 712-0091

712-0091-X006 Limited Total

Operating Parameters:

<i>Operating Capacity:</i>	192.05	MMBtu/hr	<i>County Location:</i>	Morgan
<i>Hours of Operation:</i>	8,760	hr/yr	<i>County TSP Class:</i>	1
<i>Control Device Efficiency:</i>	None		<i>County SO2 Category:</i>	II
<i>Fuel Source:</i>	Natural Gas		<i>New Source?:</i>	Y
<i>Fuel Heat Content:</i>	1000	Btu/scf		

Potential/Expected Emissions

AP-42 Factors for External Combustion Sources (Table No. 1.4-1 through 1.4-4, Rev. 7/98)

Fuel Usage:

$\frac{192.05 \times 10^6 \text{ Btu}}{\text{hr}}$	$\frac{1 \text{ cf}}{1000 \text{ Btu}}$	=	$\frac{192,050 \text{ cf}}{\text{hr}}$		
NO_x					
$\frac{100 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{19.21 \text{ lb}}{\text{hr}}$	or	84.12 TPY @ 8760 hr/yr
CO					
$\frac{84 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{16.13 \text{ lb}}{\text{hr}}$	or	70.66 TPY @ 8760 hr/yr
SO₂					
$\frac{0.6 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{0.12 \text{ lb}}{\text{hr}}$	or	0.50 TPY @ 8760 hr/yr
VOC					
$\frac{5.5 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{1.06 \text{ lb}}{\text{hr}}$	or	4.63 TPY @ 8760 hr/yr
PM₁₀/PM_{2.5} filterable					
$\frac{1.9 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{0.36 \text{ lb}}{\text{hr}}$	or	1.60 TPY @ 8760 hr/yr
PM₁₀/PM_{2.5}					
$\frac{7.6 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{1.46 \text{ lb}}{\text{hr}}$	or	6.39 TPY @ 8760 hr/yr
PM_{con}					
$\frac{5.7 \text{ lb}}{10^6 \text{ cf}}$	$\frac{192,050 \text{ cf}}{\text{hr}}$	=	$\frac{1.09 \text{ lb}}{\text{hr}}$	or	4.79 TPY @ 8760 hr/yr

Permitted Fuel Limit Potential/Expected Emissions

AP-42 Factors for External Combustion Sources (Table No. 1.4-1 through 1.4-4, Rev. 7/98)

Fuel Limit:

911.12 MMcf/yr

NO_x					
$\frac{100 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	45.56 TPY		
CO					
$\frac{84 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	38.27 TPY		
SO₂					
$\frac{0.6 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	0.27 TPY		
VOC					
$\frac{5.5 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	2.51 TPY		
PM₁₀/PM_{2.5} filterable					
$\frac{1.9 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	0.87 TPY		
PM₁₀/PM_{2.5}					
$\frac{7.6 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	3.46 TPY		
PM_{con}					
$\frac{5.7 \text{ lb}}{\text{hr}}$	$\frac{911.12}{2000}$	=	2.60 TPY		

Note: These calculations are based on the fuel-usage limit of 911.12 MMcf per year.