Facility ID: 0857091196 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

***THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION***

**Facility ID: 0857091196 Emissions Unit ID: B006 Issuance type: Final State Permit To Operate**

Go to the top of this document

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

   (a) None.

2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

   (a) None.

A. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| 103 mmBtu/hr natural gas and No. 2 fuel oil fired Boiler No.2 | 3745-17-10 (B)(1) | 0.020 pound of particulate emissions per mmBtu actual heat input |
| | 3745-17-07 (A) | Opacity shall not exceed 20 percent except for one six-minute period in any hour when up to 60 percent is permissible. |
| | 3745-35-07 | 0.51 pound sulfur dioxide (SO2) per mmBtu actual heat input, when burning No. 2 fuel oil,<br>0.0006 pound of SO2 per mmBtu actual heat input when burning only natural gas,<br>17.84 TPY SO2, as a rolling 12-month summation;<br><br>0.14 pound nitrogen oxides (NOx) per mmBtu actual heat input, when burning No. 2 fuel oil or natural gas,<br>26.0 TPY NOx, as a rolling 12-month summation |

2. **Additional Terms and Conditions**

   (a) None

B. **Operational Restrictions**

1. The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.1. above.

2. The permittee shall burn only natural gas or No. 2 fuel oil in this emissions unit.

3. The maximum natural gas usage for this emissions unit shall not exceed 300 million cubic feet per year, based upon a rolling 12-month summation of the monthly consumption rates.

   To ensure federal enforceability during the first twelve calendar months of operation following the issuance of this permit to operate, the permittee shall not exceed the natural gas consumption levels specified in the following table for emissions unit B006:

   MONTH(S) NATURAL GAS CONSUMPTION (million cubic feet)

   1-1 150
   1-2 150
   1-3 150
   1-4 150
   1-5 150
   1-6 150
   1-7 175
   1-8 200
   1-9 225
   1-10 250
   1-11 275
   1-12 300

After the first twelve months of operation following the issuance of this permit, compliance with the annual natural gas consumption limitation for emissions unit B006 shall be based upon a rolling, 12-month summation of the monthly natural gas consumption rates.

4. The maximum No. 2 fuel oil usage shall not exceed 500,000 gallons per year, based upon a rolling, 12-month summation of the monthly consumption rates.

   To ensure federal enforceability during the first twelve calendar months of operation following the issuance of this permit to operate, the permittee shall not exceed the No. 2 fuel oil consumption levels specified in the following table for emissions unit B006:

   MONTH(S) FUEL OIL CONSUMPTION (gallons)

   1-1 250,000
   1-2 250,000
   1-3 250,000
   1-4 250,000
   1-5 250,000
   1-6 250,000
   1-7 291,666
   1-8 333,333
   1-9 375,000
   1-10 416,666
   1-11 458,333
   1-12 500,000

   After the first twelve months of operation following the issuance of this permit, compliance with the annual No. 2 fuel oil comsumption limitation for emissions unit B006 shall be based upon a rolling, 12-month summation of the monthly No. 2 fuel oil consumption rates.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate in lb(s)/mmBTU. (The SO2 emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

3. The permittee shall maintain monthly records of the following information for emissions unit B006:

   a. the No. 2 fuel oil consumption rate, in gallons;
   b. the rolling, 12-month summation of No. 2 fuel oil consumption, in gallons;
   c. the natural gas consumption rate, in cubic feet; and
   d. the rolling, 12-month summation of natural gas consumption, in million cubic feet.

D. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs to the Director (the appropriate Ohio EPA District Office or local air agency).

2. The permittee shall submit semi-annual deviation (excursion) reports that identify all exceedances of the rolling, 12-month natural gas and No. 2 fuel oil consumption rate limitations and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative natural gas and No. 2 fuel oil consumption levels for emissions unit B006 specified in Sections B.3 and B.4 of this permit. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by February 15 and August 15 of each year and shall cover the previous six months (July to December and January to June, respectively). If no deviations occurred during the reporting period, a semi-annual report shall be submitted which states that no deviations occurred during that reporting period.

3. The permittee shall submit semi-annual deviation (excursion) reports which identify any exceedances of the sulfur dioxide emission limitation of .51 pound/mmBtu, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by February 15 and August 15 of each year and shall cover the previous six months (July to December and January to June, respectively). If no deviations occurred during the reporting period, a semi-annual report shall be submitted which states that no deviations occurred during that reporting period.

4. The permittee shall submit annual reports that summarize the amounts of natural gas and No. 2 fuel oil consumed in emissions unit B001 and the total sulfur dioxide and nitrogen oxides emissions for emissions unit B001. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
   Emission Limitation-
   0.020 lb particulate/mmBtu actual heat input

   Applicable Compliance Method-

For the use of natural gas, compliance shall be based upon multiplying the hourly gas burning capacity of the emissions unit (0.103 million cu.ft/hr) by the emission factor of 1.9 lbs PM/ million cu.ft given for natural gas in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2, divided by the maximum hourly heat input capacity of the emissions unit (103 mmBtu/hr). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (741 gals/hr) by the emission factor of 2.0 lbs PM/1000 gals given for fuel oil in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3, divided by the maximum hourly heat input capacity of the emissions unit (103 mmBtu/hr).
Emission Limitation-
0.51 lb SO2/mmBtu actual heat input, when burning No. 2 fuel oil

Applicable Compliance Method-
Compliance shall be based upon the record keeping and analysis requirements specified in C.1. and C.2. for each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2).
Emission Limitation-
0.0006 lb SO2/mmBtu actual heat input, when burning natural gas

Applicable Compliance Method-
Compliance shall be based upon multiplying the hourly gas capacity of the emissions unit (0.103 million cu.ft/hr) by the emission factor of 0.6 lb SO2/million cu.ft given for natural gas in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, and dividing by the maximum hourly heat input capacity of the emissions unit (103 mmBtu/hr).
Emission Limitation-
0.14 lb NOx/mmBtu actual heat input, when burning No. 2 fuel oil or natural gas

Applicable Compliance Method-
For the use of natural gas, compliance shall be based upon multiplying the hourly gas burning capacity of the emissions unit (0.103 million cu.ft/hr) by the emission factor of 140 lbs NOx/million cu.ft given for natural gas in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1, divided by the maximum hourly heat input capacity of the emissions unit (103 mmBtu/hr). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (741 gals/hr) by the emission factor of 20 lbs NOx/1000 gals given for fuel oil in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3, divided by the maximum hourly heat input capacity of the emissions unit (103 mmBtu/hr).
Emission Limitation-
17.84 TPY SO2, as a rolling 12-month summation

Applicable Compliance Method-
i. For the use of natural gas, compliance shall be determined by multiplying the rolling 12-month natural gas usage, in million cubic feet/yr, from section C.3. by the emission factor of 0.6 lbs SO2/million cu.ft given in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 and converting to tons.

ii. For the use of No. 2 fuel oil, compliance shall be determined by multiplying the rolling 12-month No. 2 fuel oil usage, in 1000 gals/yr, from C.3. by the emission factor of 142(S) = (142)(0.5) = 71 lbs/1000 gals given in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 and converting to tons.

iii. Then sum i. and ii. for the total, in tons.
Emission Limitation-
26.0 TPY NOx, as a rolling 12-month summation

Applicable Compliance Method-
i. For the use of natural gas, compliance shall be determined by multiplying the rolling 12-month natural gas usage, in million cu.ft/yr, from section C.3. by the emission factor of 140 lbs NOx/million cu. ft given in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 and converting to tons.

ii. For the use of No. 2 fuel oil, compliance shall be determined by multiplying the rolling 12-month No. 2 fuel oil usage, in 1000 gals/yr, from section C.3. by the emission factor of 20 lbs NOx/1000 gals given in the AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 and converting to tons.

iii. Then sum i. and ii. for the total, in tons.
Emission Limitation-
20% opacity visible emission limitation, except for one six-minute period in any hour when up to 60% opacity is permissible.

Applicable Compliance Method-
Compliance with the visible emission limitation is presumed through the use of inherently clean fuels. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

F. **Miscellaneous Requirements**

1. The terms and conditions in sections A, B, C, D, E and F of this permit are federally enforceable, pursuant to OAC 3745-35-07. (The PTI No. 08-628 was issued on June 13, 1984.)

2. The permittee is hereby notified that this permit and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.