

Facility ID: 0684020223 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 0684020223 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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**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.

| <u>Operations, Property, and/or Equipment</u>   | <u>Applicable Rules/Requirements</u>        | <u>Applicable Emissions Limitations/Control Measures</u>  |
|---|---|---|
| 500 Hp Natural Gas Compressor Engine - ID# 7301 | OAC rule 3745-31-05 (A)(3)<br>PTI # 06-5387 | CO: 15.5 pounds/hr<br>54.25 tons/yr<br>NOx: 11.04 pounds/hr<br>38.64 tons/yr<br>VOC: 2.2 pound/hr<br>7.7 tons/yr<br>PM: 0.39 pound/hr<br>1.38 tons/yr |
|   | OAC rule 3745-17-11(B)(5)(b)                | 0.310 pound of particulate matter per million Btu of actual heat input  |
|   | OAC rule 3745-17-07(A)                      | Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule   |

2. **Additional Terms and Conditions**
  - (a) None

**B. Operational Restrictions**

1. Operation of the 500 hp Natural Gas Compressor shall not exceed 7,000 hours per year as a 12-month rolling summation.

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

1. The permittee shall maintain monthly records of the hours of operation and the rolling 12-month summations of the hours of operation.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports of any monthly record which shows that the hours of operation exceed 7,000 hours as a 12-month rolling summation. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office within 45 days after the end of the month during which the exceedance occurs.

**E. Testing Requirements**

1. Emission Limitation:  
PM  
0.31 lb/MMBtu, 0.39 lb/hr, and 1.38 ton/yr

Applicable Compliance Method  
Compliance with the particulate matter emission limit of 0.31 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition emission factor, table 3.2-4, for Heavy Duty Natural Gas Fired Pipeline Compressor Engines (0.029 lb of particulate matter/million Btu of actual heat input). Compliance with the particulate matter emission limits 0.39 pound per hour and .1.38 ton per year shall be determined by using the emission factor 0.029 lb of particulate matter/million Btu of actual heat X 1.27 million Btu heat input per hour = 0.039 pounds per hour X 7,000 hours of operation per year = .128 ton per year. Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

2. Emission Limitation:  
20% opacity  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.  
  
Applicable Compliance Method  
Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).
3. Emission Limitation:  
CO  
15.5 lb/hr, and 54.25 ton/yr  
  
Applicable Compliance Method  
Compliance shall be based upon the following calculation - 15.5 lb./hr. X 7,000 hr/yr = 54.25 ton/yr (emission factor of 15.5 lb./hr. supplied by engine manufacturer).
4. Emission Limitation:  
NOx  
11.04 lb/hr, and 38.64 ton/yr  
  
Applicable Compliance Method  
Compliance shall be based upon the following calculation - 11.04 lb./hr. X 7,000 hr/yr = 38.64 ton/yr (emission factor of 11.04 lb./hr. supplied by engine manufacturer)
5. Emission Limitation:  
VOC  
2.2 lb/hr, and 7.7 ton/yr  
  
Applicable Compliance Method  
Compliance shall be based upon the following calculation - 2.2 lb./hr. X 7,000 hr/yr = 7.7 ton/yr (emission factor of 2.2lb./hr. supplied by engine manufacturer).
6. Operational Limitation:  
Twelve-month rolling operating limit of 7,000 hours  
  
Applicable Compliance Method  
Compliance shall be based upon the record keeping and reporting requirements in sections C.1 and D.1.

F. **Miscellaneous Requirements**

1. None