Facility ID: 0857781883 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: 0857781883 Emissions Unit ID: P003 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.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| CO cylinder purging and distillation w/thermal incineration | OAC rule 3745-31-05<br>PTI 08-3939 | 637 lbs/month, 3.82 tons/yr CO purging;<br>0.28 pound/hr, 0.37 ton/yr CO distillation;<br>see A.2.a. |
| | OAC rule 3745-21-08 | see A.2.a. |
| | OAC rule 3745-23-06 | |

2. **Additional Terms and Conditions**

   (a) These rules require the use of Best Available Technology which is also required under OAC rule 3745-31-05.

B. **Operational Restrictions**

1. The maximum annual off-line hours of the high pressure compressor associated with this emissions unit shall not exceed 30% of the maximum annual operating hours.

2. The maximum annual purging hours for this emissions unit shall not exceed 728 hours.

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

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

1. The permittee shall collect and record the following information each month:

   a. The total off-line hours of the compressor.

   b. The total CO emissions emitted when the compressor was off-line.

   c. The total number of cylinders purged.

2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

   The permittee shall collect and record the following information for each day:

   a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

   b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the

associated emissions unit was in operation

D. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

2. The permittee shall submit annual reports that identify any exceedances of the annual purging hours limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the emission limitation(s) in section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation-
637 lbs/month CO purging

Applicable Compliance Method-
The 637 lbs/month emission limitation was developed by multiplying the maximum monthly cyclinder purging rate of 732 by a calculated purging emission factor of 0.87 lb/cyclinder. Therefore, compliance shall be based upon the record keeping in section C.1., multiplying the number of cyclinders purged for the month by a calculated purging emission factor of 0.87 lb/cyclinder.
Emission Limitation-
3.82 tons/yr CO purging

Applicable Compliance Method-
The 3.82 tons/yr emission limitation was developed by multiplying the maximum annual cyclinder purging rate of 8784 by a calculated purging emission factor of 0.87 lb/cyclinder and dividing by 2000 lbs/ton. Therefore compliance shall be based upon the record keeping in section C.1., summing the 12 monthly records of the number of cyclinders purged, multiplying by 0.87 lb/cyclinder and dividing by 2000 lbs/ton.
Emission Limitation-
0.28 lb/hr CO distillation

Applicable Compliance Method-
If required compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 10 of 40 CFR Part 60, Appendix A.
Emission Limitation-
0.37 ton/yr CO distillation

Applicable Compliance Method-
The 0.37 ton/yr emissions limitation was developed by multiplying the 0.28 lb/hr by the maximum operating schedule of 8760 hrs/yr, dividing by 2,000 lbs/ton, and then multiplying by the maximum off-line time for the compressor of 30%(.30).

F. **Miscellaneous Requirements**

1. None