Facility ID: 0819070018 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: 0819070018 Emissions Unit ID: N003 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
pyrolysis burn-off oven, with afterburner control	OAC rule 3745-31-05(A)(3) PTI 08-03415	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09. 0.73 TPY particulate emissions Visible emissions shall not exceed 5% opacity, as a six-minute average 0.006 lb/hour and 0.02 TPY sulfur dioxide (SO2) 0.063 lb/hour and 0.19 TPY nitrogen oxides (NOx) 0.006 lb/hour and 0.02 TPY carbon monoxide (CO) 0.013 lb/hour and 0.04 TPY organic compounds (OC)
	OAC rule 3745-17-09	0.10 lb particulate emissions/100 lbs salvageable material charged
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

   (a) The 0.73 TPY particulate emissions, 0.006 lb/hour SO2, 0.02 TPY SO2, 0.063 lb/hour NOx, 0.19 TPY NOx, 0.006 lb/hour CO, 0.02 TPY CO, 0.013 lb/hour OC, and 0.04 TPY OC emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

B. **Operational Restrictions**

1. The temperature of the afterburner control shall be 1400 degrees Fahrenheit or greater.

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

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature, in degrees Fahrenheit, of the afterburner of the furnace. The temperature monitor and recorder shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations with any modifications deemed necessary by the permittee. The monitoring and recording devices shall be capable of accurately measuring the desired parameter.

2. The permittee shall maintain a log of all periods of time when the emissions unit is in operation and the afterburner temperature was less than 1400 degrees Fahrenheit.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports identifying any periods when the afterburner temperature was below 1400 degrees Fahrenheit, as well as the corrective action(s) taken. These quarterly deviation reports shall be submitted in accordance with paragraph 3 of the General Terms and Conditions of

this permit.

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 -
0.10 lb particulate emissions/100 lbs salvageable material charged

Applicable Compliance Method -
If required, compliance with this mass emission limitation shall be based on stack testing in accordance with OAC rule 3745-17-03(B)(8).
Emission Limitation -
0.73 TPY particulate emissions

Applicable Compliance Method -
This limit is based on the maximum rated capacity of the emissions unit (1000 lbs of salvageable material/batch divided by the number of hours per batch 6 hours/batch) and the maximum annual operating schedule of 8,760 hours/year, divided by 2,000 lbs/ton. Compliance with this emission limitation shall be determined by multiplying the maximum rated hourly capacity (167 lbs of salvageable material/hour) by the allowable emission limitation of 0.10 lb particulate emissions/100 lbs salvageable material charged) and the actual operating hours for the calendar year, divided by 2,000 lbs/ton.
Emission Limitation -
5% opacity, as a six-minute average

Applicable Compliance Method -
Compliance shall be determined by visible emission evaluations performed in accordance with 40 CFR Part 60, Appendix A using the methods and procedures specified in USEPA Reference Method 9.
Emission Limitation -
0.006 lb/hour SO2

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the furnace (0.0000032 mmcf/hour) by the AP-42 Table 1.4-2 (7/98) emission factor of 0.6 lb SO2/mmcf.

Emission Limitation -
0.02 TPY SO2

Applicable Compliance Method -
The 0.02 TPY limitation was developed by multiplying the hourly limitation of 0.006 lb/hour by the maximum annual operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.
Emission Limitation -
0.063 lb/hour NOx

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the furnace (0.0000032 mmcf/hour) by the AP-42 Table 1.4-1 (7/98) emission factor of 100 lbs NOx/mmcf.

Emission Limitation -
0.19 TPY NOx

Applicable Compliance Method -
The 0.19 TPY limitation was developed by multiplying the hourly limitation of 0.063 lb/hour by the maximum annual operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.
Emission Limitation -
0.006 lb/hour CO

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the furnace (0.0000032 mmcf/hour) by the AP-42 Table 1.4-1 (7/98) emission factor of 84 lbs CO/mmcf.

Emission Limitation -
0.02 TPY CO

Applicable Compliance Method -
The 0.02 TPY limitation was developed by multiplying the hourly limitation of 0.006 lb/hour by the maximum annual operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.
Emission Limitation -
0.013 lb/hour OC

Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the furnace (0.0000032 mmcf/hour) by the AP-42 Table 1.4-2 (7/98) emission factor of 11 lbs OC/mmcf.

Emission Limitation -
0.04 TPY OC

Applicable Compliance Method -
The 0.04 TPY limitation was developed by multiplying the hourly limitation of 0.013 lb/hour by the maximum annual operating schedule of 8,760 hours/year and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual limitation.

F. **Miscellaneous Requirements**

1. None