

Facility ID: 1667060121 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.

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Facility ID: 1667060121 Emissions Unit ID: N002 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>
Procedyne tool cleaning oven #2.	OAC rule 3745-31-05 (PTI 16-1796)	0.02 pound of particulate emissions (PE) per 100 pounds of materials charged
		0.01 ton of PE per year
		0.08 pound of nitrogen oxides (NOx) per hour
		0.35 ton of NOx per year
		0.004 pound of volatile organic compounds (VOC) per hour
		0.02 ton of VOC per year
	OAC rule 3745-17-07	0.002 pound of sulfur dioxide (SO2) per hour
		0.01 ton of SO2 per year
	OAC rule 3745-17-09	0.02 pound of carbon monoxide (CO) per hour
		0.07 ton of CO per year
		1% opacity as a 6-minute average
		The emission limitation based on this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
		The emission limitation based on this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. The permittee shall only employ natural gas as fuel in this emissions unit.
2. The permittee shall not process parts which may emit vapors of toxic metals such as lead or mercury. The permittee shall not process parts or materials containing coatings or plastics which contain halogens such as chloride, fluorine, or bromine.
3. The incinerator shall be operated, maintained, and cleaned according to the manufacturer's recommendations so as to prevent the emissions of objectionable odors.
4. No parts or materials shall be charged until sufficient time has been allowed for the preheating of the secondary chamber. Both the primary and secondary burners shall be kept in operation during the entire time the incinerator is in use. The auxiliary burner shall be fired until the necessary burn-down time is achieved.
5. The secondary chamber shall be maintained at a temperature of at least 1400 degrees Fahrenheit.

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 within the secondary chamber of 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.
2. 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 secondary chamber of the thermal incinerator, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit; and
 - 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 temperature within the secondary chamber of the thermal incinerator does not comply with the temperature limitation specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.

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:

1% opacity as a 6-minute average

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:

0.02 pound of PE per 100 pounds of materials charged

0.01 ton of PE per year

Applicable Compliance Method:

If required, compliance with the allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(8).

Emission Limitation:

0.004 pound of VOC per hour

0.02 ton of VOC per year

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitation above shall be demonstrated by multiplying the VOC emission factor of 5.6 pounds of VOC per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

The annual allowable VOC limitation above was determined by multiplying the hourly allowable VOC limitation by 8760 hours per year, and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual allowable emission limitation shall be assumed.

*The emission factor was obtained from WebFIRE (dated December 1995) SCC 3-08-9-0013.

Emission Limitation:

0.08 pound of NOx per hour

0.35 ton of NOx per year

Applicable Compliance Method:

Compliance with the hourly allowable NOx emission limitation above shall be demonstrated by multiplying the NOx emission factor of 100 pounds of NOx per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

The annual allowable NOx limitation above was determined by multiplying the hourly allowable NOx limitation by 8760 hours per year, and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual allowable emission limitation shall be assumed.

*The emission factor was obtained from AP-42 Table 1.4-1 dated July 1998.

Emission Limitation:

0.002 pound of SO2 per hour

0.01 ton of SO2 per year

Applicable Compliance Method:

Compliance with the hourly allowable SO2 emission limitation above shall be demonstrated by multiplying the

SO2 emission factor of 0.6 pound of SO2 per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

The annual allowable SO2 limitation above was determined by multiplying the hourly allowable SO2 limitation by 8760 hours per year, and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual allowable emission limitation shall be assumed.

*The emission factor was obtained from AP-42 Table 1.4-2 dated July 1998.
Emission Limitation:

0.02 pound of CO per hour
0.07 ton of CO per year

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation above shall be demonstrated by multiplying the CO emission factor of 21 pound of CO per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

The annual allowable CO limitation above was determined by multiplying the hourly allowable CO limitation by 8760 hours per year, and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual allowable emission limitation shall be assumed.

*The emission factor was obtained from AP-42, Fifth Edition, Table 1.4.1.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1667060121 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>
Grinder/Aspirator	OAC rule 3745-31-05 (PTI 16-1088)	0.551 pound of particulate emissions (PE) per hour.
	OAC rule 3745-17-07(A)	A fabric filter and cyclone shall be operated for this emissions unit in accordance with the manufacturer's recommendations, instructions and operating manual (s). Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05.

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

B. Operational Restrictions

- 1. None

C. Monitoring and/or Record Keeping Requirements

- 1. None

D. Reporting Requirements

- 1. None

E. Testing Requirements

- 1. Compliance with the emission limitation in section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

0.551 pound of PE per hour

Applicable Compliance Method:

If required, compliance with the allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(10).
Emission Limitation

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1667060121 Emissions Unit ID: P004 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>
Procedyne fluidized bed tool cleaning oven.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-09	0.20 pound of particulate emissions (PE) per 100 pounds of material charged

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

B. Operational Restrictions

- 1. 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 less than 1400 degrees Fahrenheit.

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 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 less than 1400 degrees Fahrenheit.

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.

E. Testing Requirements

1. Compliance with the emission limitation in section A.1 of these terms and conditions shall be determined in accordance with the following method:
Emission Limitation:

0.20 pound of PE per 100 pounds of material charged

Applicable Compliance Method:

If required, compliance with the allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(8).

Emission Limitation

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None