

Facility ID: 0228000289 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.

[Go to Part II for Emissions Unit P001](#)
[Go to Part II for Emissions Unit P002](#)

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Facility ID: 0228000289 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>
P001 - Title Grinder controlled by a 2,500 cfm cyclone and a 2,500 cfm cartridge type filter	OAC rule 3745-31-05(A)(3) (PTI 02-17293)	Particulate emissions from this emissions unit shall not exceed 0.03 grain per dry standard cubic foot (0.643 pound per hour) and 2.82 tons per year.
	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack associated with this emissions unit shall not exceed five percent (5%) opacity as a 6-minute average.
	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate the cyclone and cartridge type filter while this emissions unit is in operation.
2. The permittee shall install, operate, and maintain the cyclone and the cartridge type filter while this emissions unit is in operation. The cyclone and the cartridge type filter shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall inspect and record the cyclone and the cartridge type filter operation on a weekly basis.

D. Reporting Requirements

1. None

E. Testing Requirements

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

Visible particulate emissions from the stack associated with this emissions unit shall not exceed five percent (5%) opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated by visible particulate emission evaluations performed in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

Emission Limitation:

Particulate emissions from this emissions unit shall not exceed 0.03 grain per dry standard cubic foot (0.643 pound per hour).

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

Emission Limitation:

Particulate emissions from this emissions unit shall not exceed 2.82 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.643 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 0228000289 Emissions Unit ID: P002 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>
P002 - 6,000 lbs/hr Mixer with an 10,000 cfm Flex Kleen Cartridge Filter and a 10,000 cfm HEPA Filter control	OAC rule 3745-31-05(A)(3) (PTI 02-21048)	The visible particulate emissions from this emissions unit shall not exceed five percent (5%) opacity as a 6-minute average. The particulate emissions from this emissions unit shall not exceed 0.04 pound per hour and 0.17 ton per year. The volatile organic compounds (VOC) emissions from this emissions unit shall not exceed 1.93 pounds per hour and 8.45 tons per year.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2). The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	Exempt. See section A.2.a of these terms and conditions.

2. Additional Terms and Conditions

- (a) The permittee shall not employ any organic liquids in this emissions unit which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5).

B. Operational Restrictions

1. The pressure drop across the Flex Kleen Cartridge filter shall be maintained within the range of 1.0 to 4.0 inches of water while this emissions unit is in operation.
2. The pressure drop across the HEPA filter shall be maintained within the range of 1.0 to 4.0 inches of water while this emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across each baghouses while this emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s).
2. The permittee shall keep the following records on all materials used in this emissions unit:
 - a. the identification of the chemical compound and its physical state; and
 - b. for any liquid organic materials, whether or not the material is a photochemically reactive material, as defined in OAC rule 3745-21-01(C)(5).
3. The permittee shall keep a log of rubber materials processed in this emissions unit each year.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that include the following information for this emissions unit:
 - a. an identification of each day during which any photochemically reactive materials were employed, and the actual amount, in pounds per day, of photochemically reactive materials employed;
 - b. an identification of all periods of time during which the pressure drop across the Flex Kleen Cartridge filter was not in the range required in section B.1 of these terms and conditions; and
 - c. an identification of all periods of time during which the pressure drop across the HEPA filter was not in the range required in section B.2 of these terms and conditions.
2. All deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions.

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:

The visible particulate emissions from this emissions unit shall not exceed five percent (5%) opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated by visible particulate emission evaluations performed in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.
Emission Limitation:

The particulate emissions from this emissions unit shall not exceed 0.04 pound per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.
Emission Limitation:

The particulate emissions from this emissions unit shall not exceed 0.17 ton per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.04 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

The VOC emissions from this emissions unit shall not exceed 1.93 pounds per hour.

Applicable Compliance Method:

Compliance may be determined based upon the following equation:

$$\text{VOC} = (\text{MPC})(\text{EFVOC})$$

where:

VOC = the hourly VOC emission rate, in pounds per hour;

MRC = the maximum production capacity of this emissions unit of 6,000 pounds per hour; and

EFVOC = the VOC emission factor of 3.21 X10⁻⁴ pound per pound of rubber materials mixed (obtained from the

Rubber Manufacture Association, 1999).

If required, compliance shall be demonstrated in accordance with the test methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25.

Emission Limitation:

The VOC emissions from this emissions unit shall not exceed 8.45 tons per year.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable VOC emission limitation (1.93 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.