

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

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 III" and before "I. 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: 1431380075 Issuance type: Title V Proposed Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers, 40 CFR Part 63, Subpart DDDDD; Miscellaneous Organic Chemical Production, 40 CFR Part 63, Subpart FFFF; Organic Liquids Distribution, 40 CFR Part 63, Subpart EEEE; Site Remediation, 40 CFR Part 63, Subpart GGGG; and Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ. U.S. EPA failed to promulgate this standard by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.
2. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:
  - a. for a new affected source, the anticipated date of startup of operation;
  - b. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;
  - c. any existing federal, State, or local limitations or requirements applicable to the affected source;
  - d. for each affected emission point or group of affected emission points, an identification of control technology in place;
  - e. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and
  - f. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.
3. The Part II application for a MACT determination may, but is not required to, contain the following information:
  - a. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);
  - b. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and
  - c. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.
4. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:
  - a. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):
    - i. the name and mailing address of the permittee;
    - ii. the physical location of the source if it is different from the mailing address;
    - iii. identification of the relevant MACT standard and the source's compliance date;

- iv. a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and
  - v. a statement confirming the facility is a major source for HAPs.
  - b. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:
    - i. the methods used to determine compliance;
    - ii. the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;
    - iii. the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;
    - iv. the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;
    - v. an analysis demonstrating whether the affected source is a major source or an area source;
    - vi. a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and
    - vii. a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

**b State Only Enforceable Section**

- 1. The following insignificant emissions units are located at this facility:

B009 - 10 mmBtu/hr Natural Gas/No. 2 Fuel Oil-Fired Boiler;  
 P004 - Chemical Development Pilot Plant  
 P009 - Tin Mercaptide Compounds;  
 P010 - Organosulfur Production Unit;  
 P012 - B3 Lubricating Stabilizer;  
 P016 - B6 Phosphonium Compound Manufacturing  
 P018 - LS Production Facility;  
 P022 - Asphalt Additive Production;  
 P024 - Thin Film Evaporator;  
 P025 - Stannic Chloride Reactor ;  
 P026 - Stannic Chloride Reactor;  
 T006 - 10000-Gallon Storage Tank;  
 T007 - 10000-Gallon Storage Tank;  
 T008 - 5000-Gallon Storage Tank;  
 T009 - 5000-Gallon Storage Tank;  
 T011 - 5000-Gallon Storage Tank;  
 T013 - 10000-Gallon Storage Tank;  
 T014 - 7000-Gallon Storage Tank;  
 T015 - 7200-Gallon Storage Tank;  
 T016 - 75000-Gallon Storage Tank;  
 T017 - 75000-Gallon Storage Tank;  
 T018 - 50000-Gallon Storage Tank;  
 T019 - 12000-Gallon Storage Tank;  
 T020 - 12000-Gallon Storage Tank;  
 T021 - 10000-Gallon Storage Tank;  
 T022 - 10000-Gallon Storage Tank;  
 T023 - 10000-Gallon Storage Tank;  
 T024 - 20000-Gallon Storage Tank;  
 T025 - 10000-Gallon Storage Tank;  
 T026 - 10000-Gallon Storage Tank;  
 T028 - 10000-Gallon Storage Tank;  
 T030 - 15000-Gallon Storage Tank;  
 T031 - 9500-Gallon Storage Tank;  
 T032 - 9500-Gallon Storage Tank;  
 T033 - 10000-Gallon Storage Tank;  
 T034 - 10000-Gallon Storage Tank;  
 T035 - 10000-Gallon Storage Tank;  
 T036 - 10000-Gallon Storage Tank;  
 T037 - 5000-Gallon Storage Tank;  
 T038 - 5000-Gallon Storage Tank;  
 T041 - 25000-Gallon Storage Tank;  
 T042 - 25000-Gallon Storage Tank;  
 T043 - 15000-Gallon Storage Tank;  
 T044 - 10000-Gallon Storage Tank;  
 T045 - 10000-Gallon Storage Tank;  
 T046 - 10000-Gallon Storage Tank;  
 T047 - 10000-Gallon Storage Tank;  
 T050 - 48000-Gallon Storage Tank;  
 T051 - 10000-Gallon Storage Tank;

T052 - 12000-Gallon Storage Tank;  
T053 - 50000-Gallon Storage Tank;  
T054 - 50000-Gallon Storage Tank;  
T055 - 50000-Gallon Storage Tank;  
T056 - 50000-Gallon Storage Tank;  
T057 - 10000-Gallon Storage Tank;  
T058 - 48000-Gallon Storage Tank;  
T059 - 15000-Gallon Storage Tank;  
T060 - 6600-Gallon Storage Tank;  
T061 - 6600-Gallon Storage Tank;  
T062 - 50000-Gallon Storage Tank;  
T063 - 50000-Gallon Storage Tank;  
T064 - 20000-Gallon Storage Tank;  
T065 - 15000-Gallon Storage Tank;  
T066 - 25000-Gallon Storage Tank;  
T067 - 10000-Gallon Storage Tank;  
T068 - 20000-Gallon Storage Tank;  
T069 - 20000-Gallon Storage Tank;  
T070 - 20000-Gallon Storage Tank; and  
T071 - 30000-Gallon Storage Tank.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

- [Go to Part III for Emissions Unit B008](#)
- [Go to Part III for Emissions Unit B009](#)
- [Go to Part III for Emissions Unit B010](#)
- [Go to Part III for Emissions Unit P017](#)
- [Go to Part III for Emissions Unit P019](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B008 Issuance type: Title V Proposed Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
20 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed .020 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.I above.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

1. For each day during which the permittee burns a fuel other than natural gas or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as specified by rule.  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions 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).
2. Emission Limitation:  
Particulate emissions (PE) shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method:  
When firing natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (.02 mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (20 mmBtu/hr).  
  
When firing no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (142.9 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (20 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing no. 2 fuel oil.
3. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.  
  
Applicable Compliance Method:  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### VI. Miscellaneous Requirements

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B008 Issuance type: Title V Proposed Permit

#### B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

#### I. 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>
20 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler		

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B009 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
12.5 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed .020

OAC rule 3745-18-06(D)

lb/mmBtu of actual heat input.

Sulfur dioxide emissions shall not exceed 1.6  
lbs/mmBtu of actual heat input.**2. Additional Terms and Conditions**

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.I above.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

1. For each day during which the permittee burns a fuel other than natural gas or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions 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).

2. Emission Limitation:  
Particulate emissions (PE) shall not exceed .020 lb/mmBtu of actual heat input.

Applicable Compliance Method:

When firing natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (.012 mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (12.5 mmBtu/hr).

When firing no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (89.3 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (12.5 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing no. 2 fuel oil.

3. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.  
  
Applicable Compliance Method:  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B009 Issuance type: Title V Proposed Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
---	--------------------------------------	--

12.5 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler		
---	--	--

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B010 Issuance type: Title V Proposed Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
23.4 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed .020 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.

**2. Additional Terms and Conditions**

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in section A.I above.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

1. For each day during which the permittee burns a fuel other than natural gas or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as specified by rule.  
  
Applicable Compliance Method:  
If required, compliance shall be determined through visible emissions 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).
2. Emission Limitation:  
Particulate emissions (PE) shall not exceed .020 lb/mmBtu of actual heat input.  
  
Applicable Compliance Method:  
When firing natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (.0234 mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (23.4 mmBtu/hr).  
  
When firing no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (142.9 gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (20 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9) while firing no. 2 fuel oil.
3. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.  
  
Applicable Compliance Method:  
Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### VI. Miscellaneous Requirements

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: B010 Issuance type: Title V Proposed Permit

#### B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

#### I. 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>
23.4 mmBtu/hr natural gas and no. 2 fuel oil-fired boiler		
<b>2. Additional Terms and Conditions</b>		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: P017 Issuance type: Title V Proposed Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. 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>
B-12 organotins production with two stage compression system to condense out volatile organic compounds	OAC rule 3745-31-02(A)(2) (PTI 14-05328)	843.3 lbs/day VOC based upon a weekly average from Monday through Sunday.
	OAC rule 3745-21-09(KK)	See section A.I.2.a.

OAC rule 3745-31-05(D)  
(PTI 14-05328)

55 tons/year VOC based upon a rolling, 12-month summation for emissions units P017 and P019 combined

See section A.II.1.

**2. Additional Terms and Conditions**

- a. Emissions units P017 and P019 which produce methyltin intermediates shall be equipped with a VOC recovery system which is designed and operated to achieve a control efficiency of at least 70%, by weight, as a weekly average for the 7-day period from Monday through Sunday, for the VOC emissions in the process vent gas, as determined under paragraph (C) of rule 3745-21-10 of the Administrative Code.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. The maximum amount of methyl chloride charged to emissions units P017 and P019, combined, shall not exceed 4275 tons/year based on a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation after the issuance of final PTI 14-05328 (issued 12/5/2002), the permittee shall not exceed the methyl chloride charge levels specified in the following table:

Month(s) Methyl Chloride Charge Methyl Chloride Emissions

1	570.0 Tons	7.33 Tons
1-2	1140.0 Tons	14.67 Tons
1-3	1710.0 Tons	22.0 Tons
1-4	2137.5 Tons	27.5 Tons
1-5	2565.0 Tons	33.0 Tons
1-6	2992.5 Tons	38.5 Tons
1-7	3277.5 Tons	42.17 Tons
1-8	3562.5 Tons	45.83 Tons
1-9	3847.5 Tons	49.5 Tons
1-10	3990.0 Tons	51.33 Tons
1-11	4132.5 Tons	53.17 Tons
1-12	4275 Tons	55 Tons

After the first 12 calendar months of operation, compliance with the annual usage limitation shall be based upon a rolling, 12-month summation of the methyl chloride charge figures.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

- 1. The permittee shall, on a daily basis, determine the amount of VOC vented to the VOC vapor recovery system from each of the processes (emissions units P017 and P019) and the amount of VOC recovered from each of the processes (emissions units P017 and P019). The overall recovery efficiency shall be calculated each week as the ratio of the total recovered VOC for the 7-day period from Monday through Sunday to the total VOC vented to the VOC recovery system for the same 7-day period. The ratio shall be expressed as a percentage. The ratio shall be calculated not later than the Monday following each 7-day period. The amount of VOC vented to the recovery system and the amount of VOC recovered shall be determined on a mass balance basis.
- 2. The permittee shall calculate the average daily VOC emissions based upon a weekly average of the daily VOC emissions from P017 and P019 combined from Monday through Sunday.
- 3. The permittee shall maintain monthly records of the following information:
  - a. The pounds of methyl chloride charged to emissions units P017 and P019 combined.
  - b. The pounds of methyl chloride vented from emissions units P017 and P019 combined to the control equipment.
  - c. The pounds of methyl chloride recovered by the control equipment from emissions units P017 and P019 combined.
  - d. The pounds of methyl chloride emitted from the control equipment to the ambient air from emissions units P017 and P019 combined, calculated as (b) minus (c).
  - e. The calculated controlled VOC\* emissions from emissions units P017 and P019 combined, in pounds or tons.
  - f. The rolling, 12-month summation in tons of methyl chloride charged to emissions units P017 and P019 combined.
  - g. The rolling, 12-month summation of calculated controlled VOC\* emissions from emissions units P017 and P019 combined, in pounds or tons.

\*All VOC emissions are methyl chloride

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services of any weekly average control efficiency that is less than 70%, by weight. A copy of the record showing the noncomplying weekly average control efficiency shall be submitted to the Hamilton County Department of Environmental Services within 30 days of the occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the rolling, 12-month methyl chloride usage limitation in term A.II.1.
3. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the daily VOC emission limitation in term A.I.1.
4. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the annual VOC emission limitation in term A.I.1.
5. The permittee shall submit annual reports which specify the total VOC emissions from emissions units P017 and P019 combined for the previous calendar year. These reports shall be submitted by January 31 of each year.
6. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. Compliance with the requirements of OAC rule 3745-21-09(KK) shall be determined based upon the Recordkeeping in Section A.III.1.
2. Compliance with the daily VOC emission limit in Section A.I.1 shall be determined by the Recordkeeping in Section A.III.2.
3. Compliance with the rolling, 12-month VOC emission limit in Section A.I.1 shall be determined by the Recordkeeping in Section A.III.3.
4. Compliance with the rolling, 12-month methyl chloride usage limit in Section A.II.1 shall be determined by the Recordkeeping in Section A.III.3.
5. If required, the permittee shall demonstrate compliance with the VOC recovery system control efficiency requirement through emission tests performed in accordance with the procedures specified in OAC rule 3745-21-10(C).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: P017 Issuance type: Title V Proposed Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
---	--------------------------------------	--

B-12 organotins production with two stage compression system to condense out volatile organic compounds

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

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

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1431380075 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431380075 Emissions Unit ID: P019 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
B-11 organotins production with two stage compression system to condense out volatile organic compounds (VOC)	OAC rule 3745-31-05(A)(3) (PTI 14-05328)	843.3 lbs/day VOC based upon a weekly average from Monday through Sunday.
	OAC rule 3745-21-09(KK)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(KK) and OAC rule 3745-31-05(D).
	OAC rule 3745-31-05(D)	See section A.I.2.a. 55 tons/year VOC based upon a rolling, 12-month

(PTI 14-05328)

summation for emissions units P017 and P019  
combined

See section A.II.1.

**2. Additional Terms and Conditions**

- a. Emissions units P017 and P019 which produce methyltin intermediates shall be equipped with a VOC recovery system which is designed and operated to achieve a control efficiency of at least 70%, by weight, as a weekly average for the 7-day period from Monday through Sunday, for the VOC emissions in the process vent gas, as determined under paragraph (C) of rule 3745-21-10 of the Administrative Code.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)**\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*****II. Operational Restrictions**

1. The maximum amount of methyl chloride charged to emissions units P017 and P019, combined, shall not exceed 4275 tons/year based on a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation after issuance of final PTI 14-05328 (issued 12/5/02), the permittee shall not exceed the methyl chloride charge levels specified in the following table:

Month(s) Methyl Chloride Charge Methyl Chloride Emissions

1	570.0 Tons	7.33 Tons
1-2	1140.0 Tons	14.67 Tons
1-3	1710.0 Tons	22.0 Tons
1-4	2137.5 Tons	27.5 Tons
1-5	2565.0 Tons	33.0 Tons
1-6	2992.5 Tons	38.5 Tons
1-7	3277.5 Tons	42.17 Tons
1-8	3562.5 Tons	45.83 Tons
1-9	3847.5 Tons	49.5 Tons
1-10	3990.0 Tons	51.33 Tons
1-11	4132.5 Tons	53.17 Tons
1-12	4275 Tons	55 Tons

After the first 12 calendar months of operation, compliance with the annual usage limitation shall be based upon a rolling, 12-month summation of the methyl chloride charge figures.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)**\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*****III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall, on a daily basis, determine the amount of VOC vented to the VOC vapor recovery system from each of the processes (emissions units P017 and P019) and the amount of VOC recovered from each of the processes (emissions units P017 and P019). The overall recovery efficiency shall be calculated each week as the ratio of the total recovered VOC for the 7-day period from Monday through Sunday to the total VOC vented to the VOC recovery system for the same 7-day period. The ratio shall be expressed as a percentage. The ratio shall be calculated not later than the Monday following each 7-day period. The amount of VOC vented to the recovery system and the amount of VOC recovered shall be determined on a mass balance basis.
2. The permittee shall calculate the average daily VOC emissions based upon a weekly average of the daily VOC emissions from P017 and P019 combined from Monday through Sunday.
3. The permittee shall maintain monthly records of the following information:
  - a. The pounds of methyl chloride charged to emissions units P017 and P019 combined.
  - b. The pounds of methyl chloride vented from emissions units P017 and P019 combined to the control equipment.
  - c. The pounds of methyl chloride recovered by the control equipment from emissions units P017 and P019 combined.
  - d. The pounds of methyl chloride emitted from the control equipment to the ambient air from emissions units P017 and P019 combined, calculated as (b) minus (c).
  - e. The calculated controlled VOC\* emissions from emissions units P017 and P019 combined, in pounds or tons.
  - f. The rolling, 12-month summation in tons of methyl chloride charged to emissions units P017 and P019 combined.
  - g. The rolling, 12-month summation of calculated controlled VOC\* emissions from emissions units P017 and P019 combined, in pounds or tons.

\*All VOC emissions are methyl chloride

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services of any weekly average control efficiency that is less than 70%, by weight. A copy of the record showing the noncomplying weekly average control efficiency shall be submitted to the Hamilton County Department of Environmental Services within 30 days of the occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the rolling, 12-month methyl chloride usage limitation in term A.II.1.
3. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the daily VOC emission limitation in term A.I.1.
4. The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the annual VOC emission limitation in term A.I.1.
5. The permittee shall submit annual reports which specify the total VOC emissions from emissions units P017 and P019 combined for the previous calendar year. These reports shall be submitted by January 31 of each year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. Compliance with the requirements of OAC rule 3745-21-09(KK) shall be determined based upon the Recordkeeping in Section A.III.1.
2. Compliance with the daily VOC emission limit in Section A.I.1 shall be determined by the Recordkeeping in Section A.III.2.
3. Compliance with the rolling, 12-month VOC emission limit in Section A.I.1 shall be determined by the Recordkeeping in Section A.III.3.
4. Compliance with the rolling, 12-month methyl chloride usage limit in Section A.II.1 shall be determined by the Recordkeeping in Section A.III.3.
5. If required, the permittee shall demonstrate compliance with the VOC recovery system control efficiency requirement through emission tests performed in accordance with the procedures specified in OAC rule 3745-21-10(C).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1431380075 Issuance type: Title V Proposed Permit**

[Go to the top of this document](#)

**Facility ID: 1431380075 Emissions Unit ID: P019 Issuance type: Title V Proposed Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
---	--------------------------------------	--

B-11 organotins production with two stage compression system to condense out volatile organic compounds (VOC)

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emissions unit P019 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: methyl chloride

TLV (ug/m3): 103,250

Total Maximum Hourly Emission Rate (lbs/hr): 1.4\*

Predicted 1 Hour Maximum Ground-Level Concentration (ug/m3): 329.3

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 2458

\* the 1.4 lbs/hr emission rate modeled is based upon the increase in annual allowable emissions

Physical changes to or in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None