

Facility ID: 1431380075 Issuance type: Title V Preliminary 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.

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## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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### 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;  
P012 - B3 Lubricating Stabilizer;  
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.

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;  
P012 - B3 Lubricating Stabilizer;  
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.

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

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Facility ID: 1431380075 Emissions Unit ID: B008 Issuance type: Title V Preliminary 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

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**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.

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**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).

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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.

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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.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: B008 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431380075 Emissions Unit ID: B010 Issuance type: Title V Preliminary 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

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

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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.

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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).

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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.

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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.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: B010 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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

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Facility ID: 1431380075 Emissions Unit ID: P010 Issuance type: Title V Preliminary 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>
production of organo sulfur compounds	OAC rule 3745-21-07(G)	See section A.I.2.
<b>2. Additional Terms and Conditions</b>		
a. This emissions unit does not currently employ photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This emissions unit is exempt from the emission limitations/control requirements specified in OAC rule 3745-21-07(G)(2) on any day during which only non-photochemically reactive materials are employed.		
b. On any day during which photochemically reactive materials are employed in this emissions unit, the organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day.		

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**II. Operational Restrictions**

1. None

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

1. The permittee shall collect and record the following information for each day:
  - a. the company identification of each organic material employed in this emissions unit;
  - b. a record for each organic material employed, indicating whether or not the organic material is a photochemically reactive material;
  - c. the number of gallons of each organic material employed;
  - d. the OC content of each organic material, in pounds per gallon;
  - e. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for all organic materials, in pounds per day;
  - f. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
  - g. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for all organic materials, i.e., (e)/(f), in pounds per hour (average).

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
  - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day.
  - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

The deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

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V. **Testing Requirements**

1. Emission Limitations:  
8 lbs of OC/hr and 40 lbs of OC/day
 

Applicable Compliance Method:  
Compliance with these emission limitations shall be determined based upon the records required pursuant to section A.III. If required, the permittee shall demonstrate compliance with the hourly OC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

The permittee shall use formulation data to determine the OC content of each organic material employed in this emissions unit.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: P010 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431380075 Emissions Unit ID: P016 Issuance type: Title V Preliminary 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>
B6 phosphonium compound manufacturing	OAC rule 3745-21-07(G)	See section A.I.2.
<b>2. Additional Terms and Conditions</b>		
a.	This emissions unit does not currently employ photochemically reactive materials as defined in OAC rule 3745-21-01(C)(5). This emissions unit is exempt from the emission limitations/control requirements specified in OAC rule 3745-21-07(G)(2) on any day during which only non-photochemically reactive materials are employed.	
b.	On any day during which photochemically reactive materials are employed in this emissions unit, the organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day.	

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II. **Operational Restrictions**

1. None

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

1. The permittee shall collect and record the following information for each day:
  - a. the company identification of each organic material employed in this emissions unit;

- b. a record for each organic material employed, indicating whether or not the organic material is a photochemically reactive material;
- c. the number of gallons of each organic material employed;
- d. the OC content of each organic material, in pounds per gallon;
- e. for each day during which a photochemically reactive material is employed, the total organic compound emission rate for all organic materials, in pounds per day;
- f. for each day during which a photochemically reactive material is employed, the total number of hours the emissions unit was in operation; and
- g. for each day during which a photochemically reactive material is employed, the average hourly organic compound emission rate for all organic materials, i.e., (e)/(f), in pounds per hour (average).

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
  - a. for the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 lbs/hr, and the actual average hourly organic compound emissions for each such day.
  - b. for the days during which a photochemically reactive material was employed, an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 lbs/day, and the actual organic compound emissions for each such day.

The deviation reports shall be submitted in accordance with the reporting requirements specified in Part I - General Term and Condition A.1.c.ii.

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**V. Testing Requirements**

1. Emission Limitations:  
8 lbs of OC/hr and 40 lbs of OC/day
- Applicable Compliance Method:  
Compliance with these emission limitations shall be determined based upon the records required pursuant to section A.III. If required, the permittee shall demonstrate compliance with the hourly OC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.
- The permittee shall use formulation data to determine the OC content of each organic material employed in this emissions unit.

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: P016 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431380075 Emissions Unit ID: P017 Issuance type: Title V Preliminary 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 3745-21-09(KK)	See section A.I.2.a.
2. <b>Additional Terms and Conditions</b>		

- a. Each process used for the production of methyltin intermediates (emissions units P017 and P019) 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.

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**II. Operational Restrictions**

1. None

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**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 seven-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, and the permittee shall maintain records of all the mass balance calculations.

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**IV. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) 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 Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the occurrence.

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**V. Testing Requirements**

1. Compliance with the requirements of OAC rule 3745-21-09(KK) shall be determined based upon the records required pursuant to section A.III.1.

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).

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: P017 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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

Part III - Terms and Conditions for Emissions Units

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Facility ID: 1431380075 Emissions Unit ID: P019 Issuance type: Title V Preliminary 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 14-297)	49.1 tons of VOC per rolling, 12-month period  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(KK).

OAC rule 3745-21-09(KK)

See section A.I.2.a.

**2. Additional Terms and Conditions**

- a. Each process used for the production of methyltin intermediates (emissions units P017 and P019) 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.

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**II. Operational Restrictions**

1. None

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**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, and the permittee shall maintain records of all the mass balance calculations.

2. The permittee shall collect and record the following information on a monthly basis:
- a. The monthly VOC emissions for this emissions unit (i.e., the summation of the daily VOC emissions, calculated from the records required pursuant to section A.III.1, for each day of the month during which the emissions unit was in operation).
- b. The rolling, 12-month summation of the VOC emissions from this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) 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 Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any monthly record showing an exceedance of the rolling, 12-month VOC emission limitation.

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.

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**V. Testing Requirements**

1. Compliance with the requirements of OAC rule 3745-21-09(KK) shall be determined based upon the records required pursuant to section A.III.1.
- 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).
2. Compliance with the rolling, 12-month VOC emission limitation shall be determined based upon the records required pursuant to section A.III.2.

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1431380075 Emissions Unit ID: P019 Issuance type: Title V Preliminary 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>
2. <b>Additional Terms and Conditions</b>		
1. None		

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#### II. Operational Restrictions

1. None

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

1. None

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#### IV. Reporting Requirements

1. None

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#### V. Testing Requirements

1. None

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#### VI. Miscellaneous Requirements

1. None