

Facility ID: 1677010540 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. Thermo-Rite MFG. Co. has requested to restrict the coating usage for the affected source (K001 and K002), as defined in section 63.3882 of 40 CFR Part 63, Subpart MMMM, to 249 gallons per rolling, 12-month period. Thermo-Rite MFG. Co. proposed this operational limit to avoid being subject to the National Emission Standards for Harzardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, 40 CFR Part 63, Subpart MMMM.

\*Non-HAP coating means, for the purposes of 40 CFR Part 63, Subpart MMMM, a coating that contains no more than 0.1 percent by mass of any individual organic HAP that is an OSHA-defined carcinogen as specified in 29 CFR 1910.1200(d)(4) and no more than 1.0 percent by mass for any other individual HAP.

[Authority for term: OAC rule 3745-77-07(A)(1)]

2. The maximum annual coating usage for emissions units K001 and K002 shall not exceed 249 gallons, based upon a rolling, 12-month summation of the coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the effective date of this permit, the permittee shall not exceed the coating usage levels specified in the following table:

. Maximum Allowable  
Month(s) Cumulative Coating Usage

1-1	21
1-2	42
1-3	62
1-4	83
1-5	104
1-6	125
1-7	145
1-8	166
1-9	187
1-10	208
1-11	228
1-12	249

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the coating usage figures.

[Authority for term: OAC rule 3745-77-07(A)(1)]

3. The permittee shall maintain monthly records of the following information for emissions units K001 and K002, combined:

a. the coating usage for each month; and

b. beginning after the first 12 calendar months of operation following the effective date of this permit, the rolling, 12-month summation of the coating usage figures.

Also, during the first 12 calendar months of operation following the effective date of this permit, the permittee shall record the cumulative coating usage for each calendar month.

[Authority for term: OAC rule 3745-77-07(C)(1)]

4. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative coating usage levels specified in Part II, section A.2. The quarterly reports shall be submitted in accordance with the requirements specified in Part 1 - General Term and Condition A.1.c.ii of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1)]

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

Z001 - buffing operation;  
Z002 - sawing operation; and  
Z003 - radiant heaters.

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 the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more applicable requirements contained in the federally - approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]

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**b State Only Enforceable Section**

1. None

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- [Go to Part III for Emissions Unit K002](#)
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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 1677010540 Emissions Unit ID: K001 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>
Ransburg reciprocating paint line with shared baking oven - coating of miscellaneous metal parts	OAC rule 3745-31-05(A)(3) (PTI 16-123)	The best available technology determination for PTI 16-123 was determined to be compliance with all applicable State and federal rules.
	OAC rule 3745-17-07(A)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-07(A), 3745-17-11(B) and 3745-21-09(U)(2)(e)(ii). The visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)	0.551 lb/hr of particulate emissions
	OAC rule 3745-21-09(U)(2)(e)(ii)	See sections A.I.2.a and A.II.1 below.
	40 CFR Part 63, Subpart M	Thermo-Rite MFG. Co. has requested to limit the coating usage for the affected source, as defined in section 63.3882 of 40 CFR Part 63, Subpart M, to 249 gallons per rolling, 12-month period to avoid being subject to this federal regulation. See Part II - Specific Facility Terms and Conditions A.1 through A.4.

**2. Additional Terms and Conditions**

- a. Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Cleveland/Akron ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in section A.II.1 below will serve as the exemption level while SIP approval by USEPA is being obtained.

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**II. Operational Restrictions**

1. The permittee shall employ no more than 3.0 gallons of coating in any one day in this emissions unit.

[Authority for term: OAC rule 3745-21-09(U)(2)(e)(ii) and OAC rule 3745-77-07(A)(1)]

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

1. The permittee shall collect and record the following information each day for the coating line:

- a. the name and identification number of each coating employed;
- b. the volume, in gallons, of each coating employed; and
- c. the total volume, in gallons, of all of the coatings employed.

[Authority for term: OAC rule 3745-21-09(B)(3)(d) and OAC rule 3745-77-07(C)(1)]

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#### IV. Reporting Requirements

- 1. The permittee shall notify the Akron RAQMD in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit as specified in section A.II.1 above. The notification shall include a copy of such record and shall be sent to the Akron RAQMD within 45 days after the exceedance occurs.

[Authority for term: OAC rule 3745-21-09(B)(3)(e) and OAC rule 3745-77-07(C)(1)]

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#### V. Testing Requirements

- 1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

The visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-17-03(B)(1) and OAC rule 3745-77-07(C)(1)]

- b. Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emissions rate, the following equation may be used:

$E = \text{maximum coating solids usage rate in pounds per hour} \times (1-TE) \times (1-CE)$

where:

$E = \text{particulate emissions rate (lbs/hr)}$ ;

$TE = \text{transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used; and}$

$CE = \text{fractional control efficiency of the control equipment.}$

If required, compliance with this emission limitation shall be demonstrated through emission tests performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1)]

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#### VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1677010540 Emissions Unit ID: K001 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>
<b>2. 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: 1677010540 Emissions Unit ID: K002 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>
paint booth with shared baking oven - coating of miscellaneous metal parts	OAC rule 3745-31-05(A)(3) (PTI 16-1956)	19.3 lbs/day of volatile organic compounds (VOC) for coatings  3.9 tpy of VOC for coatings and cleanup materials  2.4 tpy of particulate emissions
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B) and 3745-21-09(U)(2)(e)(ii). The visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B) OAC rule 3745-21-09(U)(2)(e)(ii) 40 CFR Part 63, Subpart M	0.551 lb/hr of particulate emissions See sections A.I.2.a and A.II.1 below. Thermo-Rite MFG. Co. has requested to limit the coating usage for the affected source, as defined in section 63.3882 of 40 CFR Part 63, Subpart M, to 249 gallons per rolling, 12-month period to avoid being subject to this federal regulation. See Part II - Specific Facility Terms and Conditions A.1 through A.4.

2. **Additional Terms and Conditions**

- a. Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Cleveland/Akron ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in section A.II.1 below will serve as the exemption level while SIP approval by USEPA is being obtained.

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II. **Operational Restrictions**

- 1. The permittee shall employ no more than 3.0 gallons of coating in any one day in this emissions unit.  
  
[Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-21-09(U)(2)(e)(ii) and OAC rule 3745-77-07(A)(1)]

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

- 1. The permittee shall collect and record the following information each day for the coating line:
  - a. the name and identification number of each coating employed;
  - b. the volume, in gallons, of each coating employed; and
  - c. the total volume, in gallons, of all of the coatings employed.

[Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-21-09(B)(3)(d) and OAC rule 3745-77-07(C)(1)]
- 2. The permittee shall collect and record the following information each day for the coating line:
  - a. the name and identification number of each coating employed;
  - b. the volume, in gallons, of each coating employed;
  - c. the VOC content of each coating, in pounds per gallon, as applied; and
  - d. the total VOC emissions from all coatings employed, in pounds.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]
- 3. The permittee shall collect and record the following information each month for the purpose of determining annual VOC emissions for the coating line:
  - a. the name and identification of each cleanup material employed;
  - b. the number of gallons of each cleanup material employed;

- c. the VOC content of each cleanup material, in pounds per gallon; and
- d. the total VOC emissions from all cleanup materials employed, in pounds or tons.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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#### IV. Reporting Requirements

1. The permittee shall notify the Akron RAQMD in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit as specified in A.II.1 above. The notification shall include a copy of such record and shall be sent to the Akron RAQMD within 45 days after the exceedance occurs.

[Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-21-09(B)(3)(e) and OAC rule 3745-77-07(C)(1)]

2. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the VOC emissions exceeded 19.3 pounds per day, and the actual daily VOC emissions for each such day.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

3. The permittee shall also submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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#### V. Testing Requirements

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

##### a. Emission Limitation:

The visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated by visible particulate emission observations performed in accordance with the method and procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-31-05(A)(3), OAC rule 3745-77-07(C)(1), and OAC rule 3745-17-03(B)(1)]

##### b. Emission Limitation:

0.551 lb/hr of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = \text{maximum coating solids usage rate in pounds per hour} \times (1-TE) \times (1-CE)$$

where:

E = particulate emissions rate (pounds per hour);

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used; and

CE = fractional control efficiency of the control equipment.

If required, compliance with this emission limitation shall be demonstrated through emission tests performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rule 3745-17-03(B)(10) and OAC rule 3745-77-07(C)(1)]

##### c. Emission Limitation:

2.4 tpy of particulate emissions

Applicable Compliance Method:

To determine the actual worst case particulate emissions rate, the following equation shall be used:

$$E = [\text{maximum coating solids usage rate in pounds per hour} \times (1 - TE) \times (1 - CE) \times 8760] / 2000$$

E = particulate emissions rate (tons per year)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = fractional control efficiency of the control equipment

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

19.3 lbs/day of VOC for coatings

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.2. USEPA Method 24 or 24A shall be used to determine the VOC content for each coating.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

3.9 tpy of VOC for coatings and cleanup materials

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in sections A.III.2 and A.III.3. Formulation data shall be used to determine the VOC content of each cleanup material. US EPA Method 24 or 24A shall be used to determine the VOC content for each coating.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1677010540 Emissions Unit ID: K002 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>
paint booth with shared baking oven - coating of miscellaneous metal parts	none	See B.III.1 below.

2. **Additional Terms and Conditions**

1. None

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#### II. Operational Restrictions

1. None

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

1. The permit to install for this emissions unit (K002) 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 Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: toluene

TLV (mg/m3): 188

Maximum Hourly Emission Rate (lbs/hr): 19.3

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3275

MAGLC (ug/m3): 4476.19

Pollutant: VM&P naphtha

TLV (mg/m3): 1370

Maximum Hourly Emission Rate (lbs/hr): 19.3

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3275

MAGLC (ug/m3): 32619.05

Physical changes to or changes 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 Toxic 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 applying 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 for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, 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 still 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 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.

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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: 1677010540 Issuance type: Title V Preliminary Proposed Permit

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Facility ID: 1677010540 Emissions Unit ID: L001 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>
Baron-Blakeslee paint line degreaser	OAC rule 3745-31-05(A)(3) (PTI 16-123)	The best available technology determination for PTI 16-123 was determined to be compliance with all applicable State and federal rules.
	OAC rule 3745-21-09(O)(6)(b)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-21-09(O)(6)(b) and 40 CFR Part 63, Subparts A and T. Paragraphs (O)(2) to (O)(5) of OAC rule 3745-21-09 shall not apply to any solvent metal cleaning operation which is subject to Subpart T of 40 CFR Part 63, provided the requirements of Subpart T are specified in the terms and conditions of the permit to operate issued pursuant to rule 3745-35-02 of the Administrative Code, a permit to install issued pursuant to rule 3745-31-05 of the Administrative Code, or a Title V permit issued pursuant to rule 3745-77-08 of the Administrative Code.
	40 CFR Part 63, Subpart T	See section A.I.2.a below. The owner or operator shall ensure that the emissions from the solvent cleaning machine are equal to or less than 153 kilograms/square meter/month (31.3 pounds/square foot/month) as a 3-month, rolling average as determined using the procedures in sections A.V.1 and A.V.2 of these terms and conditions.
	40 CFR Part 63, Subpart A	[Authority for term: section 63.464(a)(1)(ii) of 40 CFR Part 63, Subpart T] See 40 CFR Part 63, Subpart T, Appendix B (Attachment 1) for the requirements of 40 CFR Part 63, Subpart A that are applicable to this emissions unit.

2. **Additional Terms and Conditions**

- a. Although the requirements of OAC rule 3745-21-09(O) allow for an exemption from applicable

requirements in OAC rule 3745-21-09(O)(2) through (O)(5), the exemption allowed in accordance with OAC rule 3745-21-09(O)(6)(b) is not part of the federally approved SIP. The rule has been revised by the Ohio EPA to specify that a solvent metal cleaning operation which is subject to 40 CFR Part 63, Subpart T is exempt from the requirements of OAC rule 3745-21-09(O)(2) through (O)(5), provided the requirements of Subpart T are specified in the terms and conditions of the Title V permit. The Ohio EPA has received confirmation from the USEPA of the acceptability of the exemption; therefore, the requirements of OAC rule 3745-21-09(O) will not be cited in the Title V permit.

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**II. Operational Restrictions**

1. None

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

1. The owner or operator shall maintain a log of solvent additions and deletions for the solvent cleaning machine.  
[Authority for term: section 63.464(a)(i) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]
2. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of section 63.464 of 40 CFR Part 63, Subpart T shall maintain records specified in paragraphs 2.a through 2.c of this section either in electronic or written form for a period of 5 years.
  - a. the dates and amounts of solvent that are added to the solvent cleaning machine;
  - b. the solvent composition of wastes removed from cleaning machines as determined using the procedure described in section A.V.2.b of these terms and conditions; and
  - c. calculation sheets showing how monthly emissions and the rolling, 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations.

[Authority for term: section 63.467(c) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

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**IV. Reporting Requirements**

1. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of section 63.464 of 40 CFR Part 63, Subpart T shall submit a solvent emission report every year by February 1. This solvent emission report shall contain the requirements specified in paragraphs 1.a through 1.c of this section.
  - a. the size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity);
  - b. the average monthly solvent consumption for the solvent cleaning machine in kilograms per month or pounds per month; and
  - c. the 3-month monthly, rolling average solvent emission estimates calculated each month using the method as described in section A.V.2 of these terms and conditions.

[Authority for term: section 63.468(g) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

2. The permittee shall submit an exceedance report to the Akron RAQMD semiannually except when the Akron RAQMD determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or an exceedance occurs. Once an exceedance has occurred the permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under section A.IV.3 of these terms and conditions is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs 2.a through 2.b of this section.
  - a. if an exceedance has occurred, the reason for the exceedance and a description of the actions taken; and
  - b. if no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

[Authority for term: section 63.468(h) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

3. A permittee who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs 3.a through 3.c of this section are met.
  - a. the source has demonstrated a full year of compliance without an exceedance;
  - b. the permittee continues to comply with all relevant record keeping and monitoring requirements specified in Subpart A (General Provisions) and in 40 CFR Part 63, Subpart T; and
  - c. the Akron RAQMD does not object to a reduced frequency of reporting for the affected source as

provided in paragraph 63.10(e)(3)(iii) of 40 CFR Part 63, Subpart A (General Provisions).

[Authority for term: section 63.468(i) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

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V. **Testing Requirements**

1. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464 of 40 CFR Part 63, Subpart T shall, on the first operating day of every month, ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in section A.V.2 of these terms and conditions. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

[Authority for term: section 63.465(b) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

2. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464 of 40 CFR Part 63, Subpart T shall, on the first operating day of the month, comply with the requirements specified in paragraphs 2.a through 2.c of this section.

a. Using the records of all solvent additions and deletions for the previous monthly reporting period required under section A.III.1 of these terms and conditions, determine solvent emissions (Ei) using equation 2 for cleaning machines with a solvent/air interface:

$$E_i = (SA_i - LSR_i - SSR_i) / (AREA_i) \text{ equation (2)}$$

where:

E<sub>i</sub> = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per square meter of solvent/air interface area per month or pounds of solvent per square foot of solvent/air interface area per month);

SA<sub>i</sub> = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month);

LSR<sub>i</sub> = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month);

SSR<sub>i</sub> = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in paragraph 2.b of this section, during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month); and

AREA<sub>i</sub> = the solvent/air interface area of the solvent cleaning machine (square meters or square feet).

b. Determine SSR<sub>i</sub> using the method specified in paragraph 2.b.i or 2.b.ii of this section.

i. From tests conducted using EPA reference method 25d.

ii. By engineering calculations included in the compliance report.

c. Determine the monthly, rolling average, EA, for the 3-month period ending with the most recent reporting period using equation 4 for cleaning machines with a solvent/air interface:

$$EA_i = (\text{the summation of } (E_i) \text{ from } j = 1 \text{ to } j = 3) / 3 \text{ equation 4}$$

where:

EA<sub>i</sub> = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods, (kilograms of solvent per square meter of solvent/air interface area per month or pounds of solvent per square foot of solvent/air interface area per month);

E<sub>i</sub> = halogenated HAP solvent emissions for each month (j) for the most recent 3 monthly reporting periods (kilograms of solvent per square meter of solvent/air interface area or pounds of solvent per square foot of solvent/air interface area);

j = 1 = the most recent monthly reporting period;

j = 2 = the monthly reporting period immediately prior to j = 1; and

j = 3 = the monthly reporting period immediately prior to j = 2.

[Authority for term: section 63.465(c) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

3. An owner or operator of a source shall determine their potential to emit from all solvent cleaning operations, using the procedures described in paragraphs 3.a through 3.c of this section. A facility's total potential to emit is the sum of the HAP emissions from all solvent cleaning operations, plus all HAP emissions from other sources within the facility.

a. Determine the potential to emit for each individual solvent cleaning using equation 6.

$PTE_i = H_i \times W_i \times SAI_i$  equation 6

where:

$PTE_i$  = the potential to emit for solvent cleaning machine  $i$  (kilograms of solvent per year);

$H_i$  = hours of operation for solvent cleaning machine  $i$  (hours per year);

= 8760 hours per year, unless otherwise restricted by a Federally enforceable requirement;

$W_i$  = the working mode uncontrolled emission rate (kilograms per square meter per hour);

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines;

= 1.12 kilograms per square meter per hour for in-line cleaning machines; and

$SAI_i$  = solvent/air interface area of solvent cleaning machine  $i$  (square meters).

Section 63.461 of 40 CFR Part 63, Subpart T defines the solvent/air interface area for those machines that have a solvent/air interface. Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the procedure in paragraph 3.b of this section.

b. Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using equation 7.

$SAI = 2.20 \times (Vol)^{0.6}$  equation 7

where:

$SAI$  = the solvent/air interface area (square meters); and

$Vol$  = the cleaning capacity of the solvent cleaning machine (cubic meters).

c. Sum the  $PTE_i$  for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

[Authority for term: section 63.465(e) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

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

- a. Emission Limitation:

The owner or operator shall ensure that the emissions from the solvent cleaning machine are equal to or less than 153 kilograms/square meter/month (31.3 pounds/square foot/month) as a 3-month, rolling average.

Applicable Compliance Method:

Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464(a) of 40 CFR Part 63, Subpart T shall demonstrate compliance with the applicable 3-month, rolling average monthly emission limitation on a monthly basis as described in sections A.V.1 and A.V.2 of these terms and conditions.

If the applicable 3-month, rolling average emission limitation is not met, an exceedance has occurred. All exceedances shall be reported as required in section A.IV.2 of these terms and conditions.

[Authority for term: sections 63.464(b) and (c) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

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#### VI. Miscellaneous Requirements

1. 40 CFR Part 63, Subpart T can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce 40 CFR Part 63, Subpart T. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of 40 CFR Part 63, Subpart T is delegated to a State, local, or Tribal agency.

[Authority for term: section 63.470(a) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

2. In delegating implementation and enforcement authority of 40 CFR Part 63, Subpart T to a State, local, or Tribal agency under 40 CFR Part 63, Subpart E, the authorities contained in section A.VI.3 of these terms and conditions are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

[Authority for term: section 63.470(b) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

3. The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs 3.a through 3.d below.

- a. Approval of alternatives to the requirements in sections 63.460, 63.462(a) through (d), and 63.463

through 63.464 (except for the authorities in section 63.463(d)(9)) of 40 CFR Part 63, Subpart T. Use the procedures in section 63.469 of 40 CFR Part 63, Subpart T to request the use of alternative equipment or procedures.

b. Approval of major alternatives to test methods under sections 63.7(e)(2)(ii) and (f) of 40 CFR Part 63, Subpart A, as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.

c. Approval of major alternatives to monitoring under section 63.8(f) of 40 CFR Part 63, Subpart A, as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.

d. Approval of major alternatives to record keeping and reporting under section 63.10(f), as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.

[Authority for term: section 63.470(c) of 40 CFR Part 63, Subpart T and OAC rule 3745-77-07(C)(1)]

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Facility ID: 1677010540 Emissions Unit ID: L001 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: 1677010540 Emissions Unit ID: L002 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>
Detrex Model No. VS-800 open-top vapor degreaser - batch vapor degreaser	OAC rule 3745-31-05(A)(3) (PTI 16-02355)	0.3 ton of organic compounds (OC) per month and 3.6 tons of OC per year
	OAC rule 3745-21-09(O)(6)(b)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(6)(b) and 40 CFR Part 63, Subparts A and T.  Paragraphs (O)(2) to (O)(5) of OAC rule 3745-21-09 shall not apply to any solvent metal cleaning operation which is subject to Subpart T of 40 CFR Part 63, provided the requirements of Subpart T are specified in the terms and conditions of the permit to operate issued pursuant to rule 3745-35-02 of the Administrative Code, a permit to install issued pursuant to rule 3745-31-05 of the Administrative Code, or a Title V permit issued pursuant to rule 3745-77-08 of the Administrative Code.
	40 CFR Part 63, Subpart T	See section A.I.2.a below.  The permittee shall ensure that the trichloroethylene monthly emissions from the solvent cleaning machine are equal to or less than 150 kilograms/square meter/month (30.7 pounds/square foot/month) as a 3-month, rolling average.
40 CFR Part 63, Subpart A	[Authority for term: section 63.464(a)(1)(ii) of 40 CFR Part 63, Subpart T]  See 40 CFR Part 63, Subpart T, Appendix B (Attachment 1) for the requirements of 40 CFR Part 63, Subpart A that are applicable to this emissions unit.	

**2. Additional Terms and Conditions**

- a. Although the requirements of OAC rule 3745-21-09(O) allow for an exemption from applicable requirements in OAC rule 3745-21-09(O)(2) through (O)(5), the exemption allowed in accordance with OAC rule 3745-21-09(O)(6)(b) is not part of the federally approved SIP. The rule has been revised by the Ohio EPA to specify that a solvent metal cleaning operation which is subject to 40 CFR Part 63, Subpart T is exempt from the requirements of OAC rule 3745-21-09(O)(2) through (O)(5), provided the requirements of Subpart T are specified in the terms and conditions of the Title V permit. The Ohio EPA has received confirmation from the USEPA of the acceptability of the exemption; therefore, the requirements of OAC rule 3745-21-09(O) will not be cited in the Title V permit.

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**II. Operational Restrictions**

- 1. None

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

1. The permittee shall maintain a log of solvent additions and removals for the solvent cleaning machine.  

[Authority for term: section 63.464(a)(1)(i) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]
2. The permittee shall demonstrate compliance with the 3-month, rolling average monthly emission limitation of less than or equal to 150 kilograms/square meter/month (30.7 pounds/square foot/month) on a monthly basis as follows:
  - a. The permittee shall, on the first operating day of every month, ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.
  - b. The permittee shall on the first operating day of the month comply with the following:
    - i. Using the records of solvent additions and removals for the previous monthly reporting period, determine trichloroethylene emissions using the appropriate equation specified in the "Testing Requirements" section of this permit.
    - ii. Determine the total amount of trichloroethylene removed from the solvent cleaning machine in solid waste during the most recent monthly reporting period (kilograms or pounds of solvent per month) as specified in the "Testing Requirements" section of this permit.
    - iii. Determine the monthly rolling average for the 3-month period ending with the most recent reporting period using the appropriate equation specified in the "Testing Requirements" section of this permit.

[Authority for term: sections 63.465(b) & (c) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]
3. The permittee shall maintain the following records either in electronic or written form for a period of five years:
  - a. the dates and amounts of trichloroethylene that are added to the solvent cleaning machine;
  - b. the trichloroethylene composition of wastes removed from the cleaning machines as determined using the procedures described in paragraph A.V.1.b.ii of this permit; and
  - c. calculation sheets showing how the monthly emissions and the rolling, 3-month average emissions of trichloroethylene from the solvent cleaning machine were determined, and the results of all calculations.

[Authority for term: section 63.467(c) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]
4. The permittee shall maintain the following monthly records for this emissions unit:
  - a. the name and identification of each solvent employed;
  - b. the total number of gallons of each solvent added to the solvent cleaning machine; and
  - c. the total monthly OC emission rate, in tons per month (i.e., [ the sum (4.b) times (solvent density) for each solvent, then divided by 2000 pounds per ton].

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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**IV. Reporting Requirements**

1. The permittee shall submit an annual solvent emission report by February 1 of each year. The report shall cover the previous calendar year. The report shall contain the following:
  - a. the size (solvent/air interface area) and type of the solvent cleaning machine;
  - b. the average monthly trichloroethylene consumption for the solvent cleaning machine in kilograms or pounds per month; and
  - c. the 3-month monthly rolling average trichloroethylene emissions estimates calculated each month using the method as described in section A.V.1.b of this permit.

[Authority for term: section 63.468(g) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]
2. The permittee shall submit an exceedance report to the Akron RAQMD semiannually except when the Akron RAQMD determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or an exceedance occurs. Once an exceedance has occurred, the permittee shall follow a quarterly reporting format until a request to reduce reporting frequency under section A.IV.3 of these terms and conditions is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The

exceedance report shall include the applicable information in paragraphs 2.a through 2.b of this section.

- a. if an exceedance has occurred, the reason for the exceedance and a description of the actions taken to comply with the 3-month, rolling average for trichloroethylene; and
- b. if no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

[Authority for term: section 63.468(h) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

3. A permittee who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs 3.a through 3.c of this section are met.

- a. the source has demonstrated a full year of compliance without an exceedance;
- b. the permittee continues to comply with all relevant record keeping and monitoring requirements specified in Subpart A (General Provisions) and in 40 CFR Part 63, Subpart T; and
- c. the Akron RAQMD does not object to a reduced frequency of reporting for the affected source as provided in paragraph 63.10(e)(3)(iii) of 40 CFR Part 63, Subpart A (General Provisions).

[Authority for term: section 63.468(i) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

4. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each month during which the OC emissions exceeded 0.3 ton per month, and the actual monthly OC emissions for each such month.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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#### V. Testing Requirements

1. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464 of 40 CFR Part 63, Subpart T shall, on the first operating day of every month, ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in section A.V.2 of these terms and conditions. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

[Authority for term: section 63.465(b) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

2. Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464 of 40 CFR Part 63, Subpart T shall, on the first operating day of the month, comply with the requirements specified in paragraphs 2.a through 2.c of this section.

- a. Using the records of all solvent additions and deletions for the previous monthly reporting period required under section A.III.1 of these terms and conditions, determine solvent emissions (E<sub>i</sub>) using equation 2 for cleaning machines with a solvent/air interface:

$$E_i = (SA_i - LSR_i - SSR_i) / (AREA_i) \text{ equation (2)}$$

where:

E<sub>i</sub> = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per square meter of solvent/air interface area per month or pounds of solvent per square foot of solvent/air interface area per month);

SA<sub>i</sub> = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month);

LSR<sub>i</sub> = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month);

SSR<sub>i</sub> = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in paragraph 2.b of this section, during the most recent monthly reporting period i, (kilograms of solvent per month or pounds of solvent per month); and

AREA<sub>i</sub> = the solvent/air interface area of the solvent cleaning machine (square meters or square feet).

- b. Determine SSR<sub>i</sub> using the method specified in paragraph 2.b.i or 2.b.ii of this section.

i. From tests conducted using EPA reference method 25d.

ii. By engineering calculations included in the compliance report.

c. Determine the monthly, rolling average, EA, for the 3-month period ending with the most recent reporting period using equation 4 for cleaning machines with a solvent/air interface:

$$EA_i = (\text{the summation of } (E_i) \text{ from } j = 1 \text{ to } j = 3) / 3 \text{ equation 4}$$

where:

$EA_i$  = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods, (kilograms of solvent per square meter of solvent/air interface area per month or pounds of solvent per square foot of solvent/air interface area per month);

$E_i$  = halogenated HAP solvent emissions for each month (j) for the most recent 3 monthly reporting periods (kilograms of solvent per square meter of solvent/air interface area or pounds of solvent per square foot of solvent/air interface area);

$j = 1$  = the most recent monthly reporting period;

$j = 2$  = the monthly reporting period immediately prior to  $j = 1$ ; and

$j = 3$  = the monthly reporting period immediately prior to  $j = 2$ .

[Authority for term: section 63.465(c) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

3. An owner or operator of a source shall determine their potential to emit from all solvent cleaning operations, using the procedures described in paragraphs 3.a through 3.c of this section. A facility's total potential to emit is the sum of the HAP emissions from all solvent cleaning operations, plus all HAP emissions from other sources within the facility.

a. Determine the potential to emit for each individual solvent cleaning using equation 6.

$$PTE_i = H_i \times W_i \times SAI_i \text{ equation 6}$$

where:

$PTE_i$  = the potential to emit for solvent cleaning machine i (kilograms of solvent per year);

$H_i$  = hours of operation for solvent cleaning machine i (hours per year);

= 8760 hours per year, unless otherwise restricted by a Federally enforceable requirement;

$W_i$  = the working mode uncontrolled emission rate (kilograms per square meter per hour);

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines;

= 1.12 kilograms per square meter per hour for in-line cleaning machines; and

$SAI_i$  = solvent/air interface area of solvent cleaning machine i (square meters).

Section 63.461 of 40 CFR Part 63, Subpart T defines the solvent/air interface area for those machines that have a solvent/air interface. Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the procedure in paragraph 3.b of this section.

b. Cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using equation 7.

$$SAI = 2.20 \times (\text{Vol})^{0.6} \text{ equation 7}$$

where:

$SAI$  = the solvent/air interface area (square meters); and

$Vol$  = the cleaning capacity of the solvent cleaning machine (cubic meters).

c. Sum the  $PTE_i$  for all solvent cleaning operations to obtain the total potential to emit for solvent cleaning operations at the facility.

[Authority for term: section 63.465(e) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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

a. Emission Limitations:

0.3 ton of OC per month and 3.6 tons of OC per year

Applicable Compliance Method:

Compliance with the emission limitations shall be determined through the monthly record keeping of the solvent usage and OC emission rate calculations as specified in section A.III.4 of these terms and conditions.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

The permittee shall ensure that the trichloroethylene monthly emissions from the solvent cleaning machine are equal to or less than 150 kilograms/square meter/month (30.7 pounds/square foot/month) as a 3-month, rolling average.

Applicable Compliance Method:

Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with section 63.464(a) of 40 CFR Part 63, Subpart T shall demonstrate compliance with the applicable 3-month, rolling average monthly emission limitation on a monthly basis as described in sections A.V.1 and A.V.2 of these terms and conditions.

If the applicable 3-month, rolling average emission limitation is not met, an exceedance has occurred. All exceedances shall be reported as required in section A.IV.2 of these terms and conditions.

[Authority for term: OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. 40 CFR Part 63, Subpart T can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce 40 CFR Part 63, Subpart T. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of 40 CFR Part 63, Subpart T is delegated to a State, local, or Tribal agency.

[Authority for term: section 63.470(a) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

2. In delegating implementation and enforcement authority of 40 CFR Part 63, Subpart T to a State, local, or Tribal agency under 40 CFR Part 63, Subpart E, the authorities contained in section A.VI.3 of these terms and conditions are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.

[Authority for term: section 63.470(b) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

3. The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs 3.a through 3.d below.
  - a. Approval of alternatives to the requirements in sections 63.460, 63.462(a) through (d), and 63.463 through 63.464 (except for the authorities in section 63.463(d)(9)) of 40 CFR Part 63, Subpart T. Use the procedures in section 63.469 of 40 CFR Part 63, Subpart T to request the use of alternative equipment or procedures.
  - b. Approval of major alternatives to test methods under sections 63.7(e)(2)(ii) and (f) of 40 CFR Part 63, Subpart A, as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.
  - c. Approval of major alternatives to monitoring under section 63.8(f) of 40 CFR Part 63, Subpart A, as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.
  - d. Approval of major alternatives to record keeping and reporting under section 63.10(f), as defined in section 63.90 of 40 CFR Part 63, Subpart E, and as required in 40 CFR Part 63, Subpart T.

[Authority for term: section 63.470(c) of 40 CFR Part 63, Subpart T, OAC rule 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

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**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