

Facility ID: 1677010107 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

[Go to Part II for Emissions Unit K005](#)

[Go to Part II for Emissions Unit L023](#)

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Facility ID: 1677010107 Emissions Unit ID: K005 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Binks spray booth with Grieve oven	OAC rule 3745-21-09(U)	See B.1 below.

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. The permittee shall not employ more than three gallons of coating per day for the miscellaneous metal parts and products coating line.

C. 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.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. 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 exceedance occurs.

E. Testing Requirements

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

three gallons of coating per day usage

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the record keeping requirements specified in Section C.1 of these terms and conditions.

F. Miscellaneous Requirements

1. None

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Facility ID: 1677010107 Emissions Unit ID: L023 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Open top vapor degreaser	OAC rule 3745-31-05 (PTI 16-1665) OAC rule 3745-21-09(O)	3.36 lbs/hr of organic compound See A.2.a through A.2.d below.

2. Additional Terms and Conditions

- (a) The open top vapor degreaser shall employ a cover and safety switches as described below:
 - i. a cover that can be opened and closed easily without disturbing the vapor zone;
 - ii. a condenser flow switch and thermostat or any other device which shuts off the sump heat if the condenser coolant is either not circulating or too warm;
 - iii. a spray safety switch which shuts off the spray pump if the vapor level drops below any fixed spray nozzle;
 - iv. a vapor level control thermostat or any other device which shuts off the sump heat when the vapor level rises too high; and
 - v. a water flow switch, water pressure switch, or any other device which shuts off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored.
A freeboard with a freeboard ratio greater than or equal to 0.75 shall be maintained, and if the open top vapor degreaser opening is greater than 10 square feet, the cover must be powered or equipped with mechanical features whereby it can be readily closed when the degreaser is not in use.
The refrigerated chiller shall be operated to control the temperature of the solvent used in the open top vapor degreaser during cleaning operations.
An enclosed design (i.e., the cover or door opens only when the dry part is actually entering or exiting the open top vapor degreaser) shall be employed to control the VOC emissions.

B. Operational Restrictions

1. The open top vapor degreaser shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
Keep the cover closed at all times except when processing work loads through the degreaser.
Minimize solvent carry-out by:
 - i. racking parts so that solvent drains freely and is not trapped;
 - ii. moving parts in and out of the degreaser at less than 11 feet per minute;
 - iii. holding the parts in the vapor zone at least 30 seconds or until condensation ceases, whichever is longer;
 - iv. tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
 - v. allowing parts to dry within the degreaser for at least 15 seconds or until visually dry, whichever is longer.
Clean only materials that are neither porous nor absorbent.
Occupy no more than one-half of the degreaser's open-top area with a workload.
Always spray within the vapor level.
Repair solvent leaks immediately, or shut down the degreaser.
Store waste solvent only in covered containers.
Operate the cleaner such that water cannot be visually detected in solvent exiting the water separator.
Use no ventilation fans near the degreaser opening.
When the cover is open, do not expose the open top vapor degreaser to drafts greater than 131 feet per minute, as measured between 3 and 6 feet upwind and at the same elevation as the tank lip.
If a lip exhaust is used on the open top vapor degreaser, do not use a ventilation rate that exceeds 65 cubic feet per minute per square foot of degreaser open area, unless a higher rate is necessary to meet Occupational Safety and Health Administration requirements.
Provide a permanent, conspicuous label, summarizing the operating procedures.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the types of solvents employed in the open top vapor degreaser;
 - b. all control equipment maintenance;
 - c. the amounts of solvents employed, in gallons;
 - d. the amount of solvent shipped off site, in gallons minus solids;
 - e. the OC content of the solvent, in pounds per gallon;
 - f. the total emissions of organic compound (i.e. (c - d) multiplied by e), in pounds;
 - g. the total hours of operation; and
 - h. the average hourly emissions, in pounds per hour (i.e. (f)/(g)).

D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports documenting any period of time during which the refrigerated chiller was not in operation during cleaning operations, and/or any period of time during which the open top vapor degreaser was not operated and maintained and/or its solvents handled in accordance with the requirements of this permit.

E. Testing Requirements

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

3.36 lbs/hr of organic compound

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the record keeping requirements specified in Section C.1 of these terms and conditions.
2. The permittee shall quantify VOC emissions through a material balance test, conducted for a sufficient period of time to compute an average emission rate. The following procedures shall be implemented in order to perform this material balance test and document the average VOC emissions from this emissions unit:
 - a. the degreaser sump shall be cleaned before testing begins;
 - b. record the amount of initial solvent and make-up solvent added to the tank with a flow meter or other means of measurement of the volume or weight;
 - c. maintain a record of the type and amount or weight of work load or parts degreased/cleaned each day or over the period of the test;
 - d. at the end of the test period (which can coincide with the normal solvent replacement cycle) pump out the used solvent and measure the amount, using a flow meter or other means of measurement of the volume or weight;
 - e. record the time of averaging for the test period and/or the number of parts cleaned, i.e., the number of hours or days passing and/or the number of parts cleaned, from the time fresh solvent is first added to the solvent cleaner ("b") to the removal of the used solvent;
 - f. bottle a sample of the used solvent and have it analyzed* for the percent oil, metal chips, and other contaminants;
 - g. calculate** the total of VOC emissions from the emissions unit during the test period, which shall equal the total solvent added to the tank minus the solvent contained in the recovered used solvent sent offsite for disposal or recovery; and
 - h. calculate the average VOC emissions rate by dividing the total emissions calculated in "g" by the total hours of the test period or total parts cleaned during the test period as recorded in "e".

* The oil and solvent proportions can be estimated by weighing samples of used solvent before and after boiling off the solvent.

F. Miscellaneous Requirements

1. None