

Facility ID: 0247100874 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.

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

Facility ID: 0247100874 Emissions Unit ID: L002 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>
L002 is a batch open top vapor degreaser with refrigerated freeboard chiller and condenser coil which employs N-Propyl Bromide.	OAC rule 3745-31-05(A)(3) (PTI No. 02-22431) (Effective December 19, 2006)	Emissions of volatile organic compounds (VOC) shall not exceed 28 tons per year.
	OAC rule 3745-21-09(O)(3)	See sections A.2.a, A.2.b and B.1 below.

2. Additional Terms and Conditions

- (a) The open top vapor degreaser shall be equipped with and shall employ a cover and safety switches as described below.
 - i. The cover shall be installed so that it can be opened and closed easily without disturbing the vapor zone.
 - ii. A condenser flow switch and thermostat (or other such device) shall shut off the sump heat if the condenser coolant is either not circulating or too warm.
 - iii. If using a spray application, a spray safety switch shall shut off the spray pump if the vapor level drops below any fixed spray nozzle.
 - iv. A vapor level control thermostat (or other such device) shall shut off the sump heat when the vapor level rises too high.
 - v. A water flow switch or water pressure switch (or other such device) shall shut off the sump heat if the water in a water-cooled condenser has no flow or no pressure, whichever is being monitored. The permittee shall install and operate a refrigerated chiller for the open top vapor degreaser, which shall maintain the solvent below the minimum temperature at which it becomes a vapor during cleaning operations.

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.
 - a. The cover shall be kept closed at all times except when processing work loads through the degreaser.
 - b. Solvent carry-out shall be minimized 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.
 - c. Porous and/or absorbent materials shall not be cleaned.

- d. Workloads shall occupy no more than one-half of the degreaser's open-top area.
- e. Solvent spraying shall only be conducted within the vapor level.
- f. Solvent leaks shall be repaired immediately, or the degreaser shall be shut down.
- g. Solvent waste shall only be stored in covered containers.
- h. The degreaser shall be operated so that water cannot be visually detected in solvent exiting the water separator.
- i. No ventilation fans shall be used near the degreaser opening.
- j. When the cover is open, the open top vapor degreaser shall not be exposed 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.
- k. If a lip exhaust is used on the open top vapor degreaser, the ventilation rate shall not exceed 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.
- l. A permanent, conspicuous label, summarizing the operating procedures shall be posted on or near to the degreaser.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain records of the following information:
 - a. the types of solvents employed in the open top vapor degreaser, including the chemical name(s) and concentration;
 - b. all control equipment maintenance, including the date and activity; and
 - c. the temperature at which the cleaning solvent is maintained.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.
- 2. The permittee shall maintain records of the following information, collected at the end of each year:
 - a. the total cleaning solvent added to the open top vapor degreaser or the amount purchased for use in the emissions unit during the year;
 - b. the total amount of solvent collected for disposal and/or recovery and shipped off-site during the year; and
 - c. the estimated annual VOC emissions from this emissions unit, calculated using the difference between the solvent used or purchased and the used solvent shipped offsite, adjusting the units to calculate the emissions in tons/year.

D. Reporting Requirements

- 1. The permittee shall submit quarterly deviation reports documenting any period of time in which the open top vapor degreaser was not operated and maintained in accordance with the requirements of this permit.

E. Testing Requirements

- 1. 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 degreaser/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.

** If solvent measurements are recorded by volume the density of the solvent shall be used to convert gallons to pounds.

F. **Miscellaneous Requirements**

1. None