



State of Ohio Environmental Protection Agency

STREET ADDRESS:

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50 W. Town St., Suite 700
Columbus, Ohio 43215

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P.O. Box 1049
Columbus, OH 43216-1049

12/4/2008

David Stoltenberg
Honeywell Lighting and Electronics
550 State Rte 55
Urbana, OH 43078

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0511010009
Permit Number: P0103810
Permit Type: OAC Chapter 3745-31 Modification
County: Champaign

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Southwest District Office. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SWDO

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
Honeywell Lighting and Electronics**

Facility ID: 0511010009
Permit Number: P0103810
Permit Type: OAC Chapter 3745-31 Modification
Issued: 12/4/2008
Effective: 12/4/2008
Expiration: 12/4/2013



Air Pollution Permit-to-Install and Operate
for
Honeywell Lighting and Electronics

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Division of Air Pollution Control

Final Permit-to-Install and Operate
Permit Number: P0103810
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Authorization

Facility ID: 0511010009
Application Number(s): A0035827
Permit Number: P0103810
Permit Description: L006 n-Propyl Bromide Open Top Vapor Degreaser
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$200.00
Issue Date: 12/4/2008
Effective Date: 12/4/2008
Expiration Date: 12/4/2013
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Honeywell Lighting and Electronics
550 STATE RTE 55
Urbana, OH 43078

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southwest District Office
401 East Fifth Street
Dayton, OH 45402
(937)285-6357

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103810

Facility ID: 0511010009

Effective Date: 12/4/2008

Authorization (continued)

Permit Number: P0103810

Permit Description: L006 n-Propyl Bromide Open Top Vapor Degreaser

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	L006
Company Equipment ID:	nPB Vapor Degreaser
Superseded Permit Number:	05-14385
General Permit Category and Type:	Not Applicable



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Final Permit-to-Install and Operate

Permit Number: P0103810

Facility ID: 0511010009

Effective Date: 12/4/2008

A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Southwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



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Final Permit-to-Install and Operate

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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103810

Facility ID: 0511010009

Effective Date: 12/4/2008

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



State of Ohio Environmental Protection Agency
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Final Permit-to-Install and Operate

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Facility ID: 0511010009

Effective Date: 12/4/2008

C. Emissions Unit Terms and Conditions



1. L006, nPB Vapor Degreaser

Operations, Property and/or Equipment Description:

n-propyl bromide Open Top vapor Degreaser

- a) 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. b)(1)d and d)(4).
 - (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. b)(1)a, d)(2), d)(3), e)(1), f)(1)a, and f)(1)b.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (to minimize the potential emissions below the applicable thresholds of Title V)	The total HAP emissions from all emissions units at this facility, including emissions from existing units not listed or specifically addressed in this permit, shall not exceed 7.5 tons per rolling 12 month period for any single HAP and 22.5 tons per rolling 12 month period for any combinations of HAPs, based upon a rolling,12-month summation of the monthly emissions. See Section d)(3), e)(1), and f)(1)b., below.
b.	OAC rule 3745-31-05(F) (Voluntary Limitation to avoid BAT requirements under OAC rule 3745-31-05(A)(3))	Emissions from this emissions unit shall not exceed VOC 9.9 tons per rolling 12 month period. See Section, d)(2), e)(1), and f)(1)a., below.
c.	OAC rule 3745-21-09(O)(3)(a) & (b)	See Sections b)(2)a., b)(2)b., c)(1), d)(1),



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		e)(2), and f)(2), below.
d.	OAC rule 3745-114-01	Ohio Toxic Rule See Section d)4), 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.

[OAC rule 3745-21-09(O)(3)(a) and (b)]

- b. The open top vapor degreaser shall be installed with a refrigerated chiller that shall be operated to control the temperature of the solvent during cleaning operations.

[OAC rule 3745-21-09(O)(3)(c)(ii)]

c) 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
- c. allowing parts to dry within the degreaser for at least 15 seconds or until visually dry, whichever is longer.
- d. Porous and/or absorbent materials shall not be cleaned.
- e. Workloads shall occupy no more than one-half of the degreaser's open-top area.
- f. Solvent spraying shall only be conducted within the vapor level.
- g. Solvent leaks shall be repaired immediately, or the degreaser shall be shut down.
- h. Solvent waste shall only be stored in covered containers.
- i. The degreaser shall be operated so that water cannot be visually detected in solvent exiting the water separator.
- j. No ventilation fans shall be used near the degreaser opening.
- k. 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.
- l. 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.
- m. A permanent, conspicuous label, summarizing the operating procedures shall be posted on or near to the degreaser.

[OAC rule 3745-21-09(O)(3)(d)]

d) Monitoring and/or Recordkeeping 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(s);
- b. all maintenance conducted on the refrigerated chiller, including the date and activity; and
- c. the temperature (or temperature range) at which each 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.

[OAC rule 3745-21-09(O)(5)-in part]

- (2) The permittee shall maintain the following month records:
 - a. the total cleaning solvent added to the open top vapor degreaser or the amount purchased for use in the emissions unit during the month;
 - b. the total amount of solvent collected for disposal and/or recovery and shipped off-site during the month; and
 - c. the estimated monthly 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 per month; and
 - d. the rolling, 12-month summation of VOC emissions, 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 per rolling 12 month period.

- (3) The permittee shall collect and record the following information each month for all emissions units at this facility, including emissions from units not listed or specifically addressed in this permit:
 - a. The company identification for each HAP-emitting material (i.e., all HAP-containing coatings, clean-up materials, resins, adhesives, potting compounds, plating chemicals, etc.);
 - b. the individual HAP content of each HAP-emitting material;
 - c. the total combined HAP content of each HAP-emitting material (i.e. sum of individual HAP contents from b);
 - d. the amount of each HAP-emitting material employed during the previous calendar month;
 - e. the hours of operation, or other emissions determining rationale, of all HAP-generating sources (e.g., fuel combustion, sanding/grinding operations, plating);
 - f. the total individual HAP emissions from all HAP-emitting materials employed and all HAP-generating sources, in pounds or tons per month;
 - g. the total combined HAP emissions from all HAP-emitting materials employed and all HAP-generating sources, in pounds or tons per month;
 - h. the rolling, 12-month summation of individual HAP emissions from all HAP-emitting materials employed and all HAP-generating sources, in tons; and
 - i. the rolling, 12-month summation of total combined HAP emissions from all HAP-emitting materials employed and all HAP-generating sources, in tons.



- (4) Modeling to demonstrate compliance with, the AToxic Air Contaminant Statute[@], ORC 3704.03(F)(4)(b), was not necessary because the emissions unit=s maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[ORC 3704.03(F)(3)(c) and F(4)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the Potential to Emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
 - i. rolling 12 month VOC emission rate of 9.9 tons;
 - ii. combined facility-wide individual HAP emissions of 7.5 tons per rolling 12 month period; and/or
 - iii. combined facility-wide combined HAPs emissions of 22.5 tons per rolling 12 month period.
 - b. T the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted (postmarked) each year by the thirty-first of January (covering October to December), the thirtieth of April (covering January to March), the thirty-first of July (covering April to June), and the thirty-first of October (covering July to September), unless an alternative schedule has been established and approved by the director (the appropriate district office or local air agency).

- (2) 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.

[OAC rule 3745-21-09(O)(3)(c)(ii)]



f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

9.9 tons of VOC emissions per rolling 12-month period.

Applicable Compliance Method:

Compliance with the combined rolling 12-month VOC emission limitation shall be determined by the recordkeeping requirement specified in d)(2).

b. Emission Limitations:

The total HAP emissions from all emissions units at this facility, including emissions from existing units not listed or specifically addressed in this permit, shall not exceed 7.5 tons per rolling 12 month period for any individual HAP and 22.5 tons per rolling 12 month period for all combined HAPs.

Applicable Compliance Method:

Compliance with the facility-wide HAP emission limitations shall be determined by the recordkeeping requirement specified in d)(3).

(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, as follows:

a. the degreaser tank shall be cleaned before testing begins;

b. records shall be maintained of the weight or volume of solvent used to initially fill the cleaning tank and the volume or weight of the make-up solvent added to the tank during the test period;

c. at the end of the test period (which can coincide with the normal solvent replacement cycle) the used solvent shall be pumped or drained out of the tank and the volume or weight measured using the same method applied in Ab@ above;

d. a record shall be maintained of the time (hours) passing between filling the tank with fresh solvent (start of test period) to the removal of the waste solvent, as well as, the number of parts or weight of the work load cleaned during the test period;

e. a sample of the used solvent shall be analyzed for the percent oil, metal chips, and other contaminants (the oil and solvent proportions can be estimated by weighing samples of used solvent before and after boiling off the solvent);

f. from the analysis of the used/waste solvent in Ae@, the volume or weight of oils, dissolved from the cleaned parts or work load, shall be documented;



- g. the total VOC emissions from the cleaning tank during the test period shall be calculated* from the volume or weight of solvent displaced by the oil, plus the total makeup solvent added to the tank to the same initial fill line, and this volume or weight multiplied by the solvent density (pounds per gallon) or VOC concentration (weight percent) of the solvent; or
- h. if the final solvent line is below the initial solvent line in the tank when the waste solvent is pumped or drained out, the total VOC emissions from the cleaning tank during the test period shall equal the measured volume or weight of fresh solvent used to initially fill the tank, minus the total volume or weight of used solvent pumped/drained out, plus the volume or weight of solvent displaced by the oil (calculated in Ag above), plus the volume or weight of makeup solvent added to the tank during the test period, and this total volume or weight multiplied by the solvent density (pounds per gallon) or VOC concentration (weight percent) of the degreasing solvent; or
- i. as an alternative to the procedures for estimating VOC emission from the cleaning tank in Ag or Ah above, the VOC emissions may be calculated as the difference between the total volume of solvent added to the cleaning tank during the test period (the amount used to initially fill the tank and the makeup solvent added) and (minus) the solvent contained in the used solvent pumped or drained out; and this difference in volume or weight multiplied by the solvent density (pounds per gallon) or VOC concentration (weight percent) of the degreasing solvent;
- j. the average VOC emissions rate shall be calculated by dividing the total emissions calculated in Ag, Ah, or Ai by the total hours of the test period (and/or divided by the total parts cleaned during the test period if an emissions per production rate is required) as recorded in Ad; and
- k. if waste solvents pumped from the solvent cleaning tank are not immediately sealed to prevent evaporation and if a record is not maintained of the volume or amount sent offsite for recovery and/or disposal, such waste solvent losses shall be included with those calculated above in any required emissions report(s) if it cannot be demonstrated that this volume of material has been properly recovered or disposed of and/or has not been lost through evaporation to the atmosphere.

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

[OAC rule 3745-21-10(D)]

- g) Miscellaneous Requirements
 - (1) None.