



Environmental  
Protection Agency

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director

12/13/2010

Mr. B David Vickroy  
Hartzell Mfg Co Inc  
P.O. BOX 808  
Miamisburg, OH 45343

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0857092018  
Permit Number: P0106764  
Permit Type: Renewal  
County: Montgomery

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)

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. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact Regional Air Pollution Control Agency at (937)225-4435 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: RAPCA





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
Hartzell Mfg Co Inc**

Facility ID: 0857092018  
Permit Number: P0106764  
Permit Type: Renewal  
Issued: 12/13/2010  
Effective: 12/13/2010  
Expiration: 12/13/2020





Division of Air Pollution Control
Permit-to-Install and Operate
for
Hartzell Mfg Co Inc

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## Authorization

Facility ID: 0857092018

Application Number(s): A0039842, A0040486, A0040636

Permit Number: P0106764

Permit Description: PTIO renewal for open top vapor degreaser, pyrolysis cleaning furnace and four misc. metals parts coating booths.

Permit Type: Renewal

Permit Fee: \$0.00

Issue Date: 12/13/2010

Effective Date: 12/13/2010

Expiration Date: 12/13/2020

Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Hartzell Mfg Co Inc  
2533 Technical Dr  
Miamisburg, OH 45342

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:

Regional Air Pollution Control Agency  
117 South Main Street  
Dayton, OH 45422-1280  
(937)225-4435

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



## Authorization (continued)

Permit Number: P0106764  
Permit Description: PTIO renewal for open top vapor degreaser, pyrolysis cleaning furnace and four misc. metals parts coating booths.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

<b>Emissions Unit ID:</b>	<b>L002</b>
Company Equipment ID:	Metal Cleaning
Superseded Permit Number:	08-04412
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>N001</b>
Company Equipment ID:	Cleaning Furnace
Superseded Permit Number:	08-3222
General Permit Category and Type:	Not Applicable

**Group Name: coating booths**

<b>Emissions Unit ID:</b>	<b>K001</b>
Company Equipment ID:	Metal Coating Booth
Superseded Permit Number:	08-02005
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>K002</b>
Company Equipment ID:	Misc. Metal Coating Booth #2
Superseded Permit Number:	08-02005
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>K003</b>
Company Equipment ID:	Misc. Metal Coating Booth #3
Superseded Permit Number:	08-02005
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>K004</b>
Company Equipment ID:	Misc. Metal Coating Booth #4
Superseded Permit Number:	08-02005
General Permit Category and Type:	Not Applicable

## **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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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 Regional Air Pollution Control Agency 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<sup>1</sup> 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 emissions 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 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

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<sup>1</sup> Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

**Final Permit-to-Install and Operate**

Hartzell Mfg Co Inc

**Permit Number:** P0106764

**Facility ID:** 0857092018

**Effective Date:** 12/13/2010

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.

## **B. Facility-Wide Terms and Conditions**

**Final Permit-to-Install and Operate**

Hartzell Mfg Co Inc

**Permit Number:** P0106764

**Facility ID:** 0857092018

**Effective Date:** 12/13/2010

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.

## **C. Emissions Unit Terms and Conditions**

**1. L002, Metal Cleaning**

**Operations, Property and/or Equipment Description:**

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. 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.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(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 are identified below. 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(A)(3)	The volatile organic compound (VOC) emissions shall not exceed 4.0 tons per year (TPY).  The requirements of this rule also include compliance with the requirements of 40 CFR Part 63 Subpart T.
b.	National Emissions Standards for Hazardous Air Pollutants (NESHAP), 40 CFR, Part 63, Subpart T, for Halogenated Solvent Cleaning.	See b)(2)a. through b)(2)b.
c.	OAC rule 3745-21-09(O)(3)	See b)(2)c.

(2) Additional Terms and Conditions

a. The batch vapor cleaning machine, having a solvent/air interface area greater than 1.21 square meters (13 square feet), shall employ Freeboard refrigeration device, reduced room draft, freeboard ratio of 1.0, as the chosen control combination selected from Table 2 of Subpart T.

**Final Permit-to-Install and Operate**

Hartzell Mfg Co Inc

**Permit Number:** P0106764

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**Effective Date:** 12/13/2010

- b. The permittee shall ensure that the solvent cleaning machine conforms to the following design requirements:
  - i. The vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils.
  - ii. The vapor cleaning machine shall be equipped with a vapor level control device that shuts off the sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
  - iii. The vapor cleaning machine shall have a primary condenser.
  - iv. The solvent cleaning machine's automated parts handling system shall move the parts or parts baskets at a speed not to exceed 3.4 meters per minute (11 feet per minute, hoist speed), from the initial loading of parts through removal of cleaned parts.
  - v. The solvent cleaning machine's automated parts handling system shall move the parts or parts baskets at a speed not to exceed 3.4 meters per minute (11 feet per minute, hoist speed), from the initial loading of parts through removal of cleaned parts.
  - vi. The permittee shall use a reduced room draft that ensures that the flow or movement across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time.
- c. The requirements of OAC rule 3745-21-09 paragraphs (O)(2) through (O)(5) shall not apply to any solvent metal cleaning operation which is subject to 40 CFR Part 63 Subpart T, provided the requirements of Subpart T are specified in the terms and conditions of a permit-to-install and operate.

c) Operational Restrictions

- (1) The permittee shall conduct periodic monitoring of the parameters used to demonstrate compliance, as described in the "Monitoring and Record keeping Requirements" section of this permit; and these parameters shall meet the requirements established in this permit.
- (2) The permittee shall ensure that the chilled air blanket temperature, measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point.
- (3) The permittee shall use a reduced room draft that ensures that the flow or movement across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time, measured using the procedure described in the "Monitoring and Record keeping Requirements" section of this permit. The permittee shall establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in the "Monitoring and Record keeping Requirements" section of this permit.

- (4) The permittee shall maintain a freeboard with a freeboard ratio equal to 1.0 or greater
- (5) The permittee shall meet the following required work and operational practices:
  - a. During startup of the solvent cleaning machine, the primary condensers shall be turned on before the sump heater.
  - b. During shutdown of the solvent cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.
  - c. When solvent is added or drained from the solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings, and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.
  - d. The solvent cleaning machine and its associated controls shall be maintained as recommended by the manufacturers of the equipment; or maintained using alternative maintenance practices that have been demonstrated to the satisfaction of the regulating agency (appropriate Ohio EPA District Office or local air agency) to achieve the same or better results as those recommended by the manufacturer.
  - e. Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but must not allow liquid solvent to drain from the container.
  - f. Sponges, fabric, wood, paper products and/or other porous or absorbent material shall not be cleaned.
  - g. Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).
  - h. Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes must be tipped or rotated before being removed from the solvent cleaning machine unless an equally effective approach has been approved by the regulating agency.
  - i. Parts baskets or parts shall not be removed from the solvent cleaning machine until dripping has stopped.
- d) **Monitoring and/or Recordkeeping Requirements**
  - (1) The permittee shall collect and record the following information each month for the solvent cleaning machine:
    - a. The number of gallons of trichloroethylene (TCE) used.
    - b. The number of gallons of TCE disposed of as waste.
    - c. The VOC emission rate, in tons, calculated as follows:

$$E = (L_s - L_w) \times D/2000$$

E = OC rate (tons/month)

L<sub>s</sub> = liquid volume of TCE solvent employed (gallons/month)

L<sub>w</sub> = liquid volume of TCE solvent sent off-site as waste (gallons/month)

D = density of TCE solvent (pounds/gallon).

- (2) The permittee shall maintain the following records in written or electronic form for the lifetime of the solvent cleaning machine:
  - a. owner's manuals, or if not available, written maintenance and operating procedures for the solvent cleaning machine and control equipment;
  - b. records of the halogenated HAP (TCE) solvent content for each solvent used in the solvent cleaning machine;
  - c. the date of installation for the solvent cleaning machine and all of its control devices.
- (3) Using a thermometer or thermocouple, the permittee shall measure and record, on a weekly basis, the temperature at the center of the air blanket during the idling mode.
- (4) The permittee shall measure and record the freeboard ratio before and after each addition of make-up solvent to assure compliance with the control requirement limitation. The date of record shall be included with the recorded measurements.
- (5) The permittee shall conduct an initial monitoring test, and a quarterly test thereafter, of the wind speed, measured within 6 inches above the top of the freeboard area of the solvent cleaning machine. The test shall be conducted as follows:
  - a. the direction of the wind current shall be determined by slowly rotating a velometer or similar device until the maximum speed is located;
  - b. the velometer (or similar device) shall be oriented in the direction of the wind current at each of the four corners of the machine, and the reading from each corner recorded; and
  - c. the average wind speed of the four corners shall be calculated and maintained on record.

On a weekly basis the permittee shall monitor the room parameters that were used to establish initial compliance and achievement of reduced room draft. A record of the test results and monitored room parameters shall be maintained on file or in an operational log.

e) Reporting Requirements

- (1) The permittee shall submit an annual report by February 1 of each year, following the year for which the report is being made. This report shall contain the following information:
  - a. a signed statement, by the facility owner or his designee, stating that “all operators of the solvent cleaning machine have received training on the proper operation of solvent cleaning machines and their control devices, sufficient to pass the testing required by the standard”; and
  - b. an estimate of solvent consumption during the reporting period and emissions of each HAP.
- (2) The permittee shall submit an exceedance report on a semiannual basis, unless it is determined that more frequent reporting is necessary to accurately assess compliance or if an exceedance occurs. Once an exceedance has occurred, the permittee shall submit quarterly exceedance reports, until such time that the permittee requests and receives approval from the regulating agency of less frequent reporting requirements. The permittee may receive approval of less frequent reporting if the following conditions are met:
  - a. the emissions unit has demonstrated a full year of compliance without an exceedance;
  - b. the permittee continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR 63.1, General Provisions; and
  - c. the regulating agency does not object to a reduced frequency of reporting for the affected emissions unit as provided in paragraph (e) (3) (iii) of subpart A, 40 CFR 63.1, General Provisions.
- (3) The permittee shall submit a deviation report if no operation conditions were established under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) and/or if the flow of air across the top of the freeboard area of the cleaning machine or within the solvent cleaning machine enclosure exceeded 15.2 meters/minute and was not corrected within 15 days of detection.
- (4) The permittee shall submit a deviation report if the temperature of the chilled air blanket, measured at its center, was greater than 30% of the solvent’s boiling point and was not adjusted within 15 days of detection.
- (5) The permittee shall submit a deviation report if the freeboard ratio is not maintained at 1.0 or greater.
- (6) Each exceedance report shall be delivered or post marked by the 30th day following the reporting period. Each exceedance report shall contain the following information:
  - a. if an exceedance has occurred, the standard, monitored parameter, emission limit, or other requirement that was exceeded; the reason for the exceedance;

and the actions taken to correct any future exceedance of the same limit or requirement;

- b. action(s) taken to comply with 40 CFR 63.463 (e) and (f) including written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to acceptable levels; and
- c. if no exceedance has occurred, a statement to that effect shall be submitted.

(7) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

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

a. Emission Limitation

The permittee has installed and shall employ a freeboard refrigeration device, reduced room draft and freeboard ratio of 1.0, as the control combination required from Table 2, found in 40 CFR 63.463.

Applicable Compliance Method

The permittee shall demonstrate compliance with the selected control combination, a freeboard refrigeration device, reduced room draft and freeboard ratio of 1.0, through compliance with the "Additional Terms and Conditions", "Operational Restrictions", and "Monitoring and Record keeping Requirements" and "Testing Requirement" sections of this permit.

b. Emission Limitation

The chilled air blanket temperature measured at the center of the air blanket shall be no greater than 30% of the solvent's boiling point.

Applicable Compliance Method

The solvent's boiling point shall be documented and, on a weekly basis, the permittee shall measure the temperature at the center of the air blanket during the idling mode using a thermometer or thermocouple.

c. Emission Limitation

The flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure shall not exceed 15.2 meters/minute (50 feet/minute).

Applicable Compliance Method

The permittee shall conduct quarterly monitoring tests of the windspeed and weekly monitoring of the room parameters, following the initial monitoring test. The windspeed shall be measured within 6 inches above the top of the freeboard area and at each corner of the solvent cleaning machine using a velometer or similar device, and rotating it until the maximum speed is located. The average windspeed of that measured at each corner shall be calculated. The permittee shall establish and maintain the operating conditions under which the wind speed was demonstrated to be in compliance.

d. Emission Limitation

The freeboard ratio shall not be less than 1.0.

Applicable Compliance Method

The permittee shall measure and record the freeboard ratio before and after each solvent addition to assure compliance with the control requirement limitation.

e. Emission Limit

The VOC emissions from this emissions unit shall not exceed 4.0 TPY.

Applicable Compliance Method

The annual emissions limitation was developed by multiplying the TCE limit of 661 gallons/yr by the density of trichloroethylene solvent (12.01 lbs/gallon) and dividing by 2000 lbs per ton.

Compliance shall based upon the record keeping specified in d)(1).

g) Miscellaneous Requirements

(1) None.

**2. N001, Cleaning Furnace**

**Operations, Property and/or Equipment Description:**

Controlled Pyrolysis Cleaning Furnace

- 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. 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.
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operation(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 are identified below. 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(A)(3)	<p>The particulate emissions (PE) from this emissions unit shall not exceed 0.25 TPY.</p> <p>Visible PE from the stack serving this emissions unit shall not exceed 5 percent opacity as a 3-minute average, except as provided by rule.</p> <p>The requirements established pursuant to this rule also include the requirements of OAC rule 3745-17-09(B) and OAC rule 3745-17-09(C).</p>
b.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-09(B)	PE shall not exceed 0.10 pound per 100 pounds of liquid, semisolid or solid refuse and salvageable material charged to the incinerator.

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-09(C)	Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
e.	OAC rule 3745-17-11	Exempt pursuant to OAC rule 3745-17-11(A)(1)c.
f.	OAC rule 3745-18-06(A)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 because natural gas is the only fuel burned.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The emissions unit shall be operated, and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the burn-off oven, or physically modify the burn-off oven in any way, without first verifying with the manufacturer that the change(s) would not adversely affect air contaminant emissions from the unit.

(2) The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this burn-off oven and shall comply with the following operational restrictions:

a. the permittee shall ensure that the burn-off oven is operated only by properly trained personnel who have read, and understand, the burn-off oven's operational manual; and

b. prior to start-up of the burn-off oven, the permittee shall remove ash residue left inside the burn-off oven after the previous cycle.

c. the emissions unit shall only be used for the purpose of removing non-hazardous material (such as paint, oil, plastic, grease, etc) from reusable metal parts.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record each month the total salvageable material charged in pounds for the purpose of determining annual particulate emissions.

(2) The air contaminant control device for this emissions unit shall be designed and operated in accordance with the following requirements:

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- a. the secondary combustion chamber shall be operated so that the exit gas temperature from the chamber is, at a minimum, 1400 degrees Fahrenheit, taking into account normal start-up procedures; and
  - b. the secondary chamber shall allow for a minimum retention time of 0.5 seconds at 1400 degrees Fahrenheit, taking into account normal start-up procedures.
- (3) The permittee shall properly install, operate, and maintain continuous temperature monitors and recorder(s) that measure and record the combustion temperature within the afterburner/secondary combustion chamber when the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.
- (4) Whenever the monitored afterburner/secondary combustion chamber combustion temperature deviates from the limit established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:
- a. the date and time the deviation began;
  - b. the magnitude of the deviation at that time;
  - c. the date the investigation was conducted;
  - d. the name(s) of the personnel who conducted the investigation; and
  - e. the findings and recommendations
- (5) In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the afterburner/secondary combustion chamber within the acceptable range/limit specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:
- a. a description of the corrective action;
  - b. the date corrective action was completed;
  - c. the date and time the deviation ended;
  - d. the total period of time (in minutes) during which there was a deviation;
  - e. the temperature readings immediately after the corrective action was implemented; and
  - f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The temperature limit is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted temperature limit based upon information obtained during future performance tests that demonstrate compliance with the allowable emissions rate for the controlled pollutant(s). In addition, approved revisions to the temperature limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

- (6) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- (7) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

e) Reporting Requirements

- (1) The permittee shall identify in the annual permit evaluation report the following information concerning the operations of the afterburner/secondary combustion chamber during the 12-month reporting period for this emissions unit:
  - a. each period of time (start time and date, and end time and date) when the afterburner/secondary combustion chamber combustion temperature was outside of the acceptable range;
  - b. each incident of deviation described in e)(1)a. where a prompt investigation was not conducted;
  - c. each incident of deviation described in e)(1)a. where prompt corrective action, that would bring the emissions unit into compliance and/or the afterburner/secondary combustion chamber combustion temperature into compliance with the acceptable range, was determined to be necessary and was not taken; and
  - d. each incident of deviation described in e)(1)a. where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in d)(6):
  - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
  - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.
- (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

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 Limitation  
The PE from this emissions unit shall not exceed 0.10 lb per 100 lbs of salvageable material charged.

Applicable Compliance Method

If requested, the permittee shall demonstrate compliance by emissions testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

b. Emission Limitation

The PE from this emissions unit shall not exceed 0.25 TPY.

Applicable Compliance Method

The annual limit was established by multiplying the annual limit of 500,000 lbs salvageable material charged/yr times the allowable emission limit of 0.10 lb PE/100 lbs material charged divided by 2,000 lbs/ton.

Compliance shall based upon the record keeping specified in d)(1).

c. Emission Limitation

Visible PE from any/the stack shall not exceed 5 percent opacity as a 3-minute average, except as specified by rule.

Applicable Compliance Method

If requested, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.

g) Miscellaneous Requirements

(1) None.

**3. Emissions Unit Group - coating booths: K001, K002, K003, K004,**

EU ID	Operations, Property and/or Equipment Description
K001	Misc. Metal Parts Coating Booth #1
K002	Misc. Metal Parts Coating Booth #2
K003	Misc. Metal Parts Coating Booth #3
K004	Misc. Metal Parts Coating Booth #4

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. 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.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(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 are identified below. 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(A)(3)	The emissions of Volatile Organic Compound (VOC) from this emissions unit shall not exceed 27.0 pounds per day from coatings and 1.36 tons per year from coatings and cleanup materials.  See b)(2)a.
b.	OAC rule 3745-21-09(U)(2)(e)(i)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(C)	Exempt pursuant to OAC rule 3745-17-11(A)(1)(i).

- (2) Additional Terms and Conditions
  - a. The permittee shall not use more than 5 gallons of coating material per day for the coating of miscellaneous metal parts.
- c) Operational Restrictions
  - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall collect and record the following information each day for this emissions unit:
    - a. The name and identification number of each coating employed.
    - b. The VOC content of each coating employed, in pounds per gallon, as applied.
    - c. The number of gallons of each coating employed.
    - d. The total number of gallons of all the coatings employed.
    - e. The total VOC emissions from all coatings employed, in pounds [i.e., the summation of d)(1)b. x d)(1)c. for each coating employed].
  - (2) The permittee shall collect and record the following information for each month for this emissions unit:
    - a. The company identification of each cleanup material employed.
    - b. The number of gallons of each cleanup material employed.
    - c. The VOC content of each cleanup material employed, in pounds per gallon.
    - d. The total VOC emissions from all cleanup materials employed, in pounds [i.e., summation of d)(2)b. x d)(2)c. for each cleanup material employed], in pounds per month.
  - (3) The permittee shall calculate and record the total annual VOC emissions from coatings and cleanup materials, [i.e., the sum of the daily VOC emission rates from the coating materials for the calendar year in d)(1)e. plus the sum of the monthly emissions from cleanup materials for the calendar year in d)(2)d.].
- e) Reporting Requirements
  - (1) The permittee shall notify the director (appropriate District Office or local air agency) in writing of any daily record showing that the coating line employed more than the applicable maximum daily coating usage limit of 5 gallons per day. The notification shall include a copy of such record and shall be sent to the Director (appropriate District Office or local air agency) within 30 days after the exceedance occurs.

- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

- a. Emissions Limitation:

The emissions of VOC from this emissions unit shall not exceed 27.0 lbs/day from coatings.

Applicable Compliance Method:

Compliance shall based upon the record keeping specified in d)(1)e.

- b. Emissions Limitation:

The emissions unit shall not exceed 5 gallons per day total coating usage.

Applicable Compliance Method:

Compliance shall based upon the record keeping specified in d)(1)d.

- c. Emissions Limitation:

The emissions of VOC from this emissions unit shall not exceed 1.36 tons per year, from coatings and cleanup materials.

Applicable Compliance Method:

Compliance shall based upon the record keeping specified in d)(3).

- (2) In accordance with OAC rule 3745-21-10, U.S. EPA Method 24 shall be used to determine the VOC content of coatings and cleanup materials, where formulation data is not based on the same method or if it is determined to be necessary by the Director.

- (3) In accordance with OAC rule 3745-21-04(B)(5), facilities located in Ashtabula, Butler, Clark, Clermont, Cuyahoga, Delaware, Franklin, Geauga, Greene, Hamilton, Lake, Licking, Lorain, Lucas, Mahoning, Medina, Miami, Montgomery, Portage, Stark, Summit, Trumbull, Warren and Wood Counties shall use USEPA Method 24 to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

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g) Miscellaneous Requirements

(1) None.