



Environmental
Protection Agency

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

4/27/2010

BRETT TENNAR
SEMCO, INC.
P.O. BOX 561
MARION, OH 43301-0561

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0351010070
Permit Number: P0087342
Permit Type: Renewal
County: Marion

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT
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 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 Ohio EPA DAPC, Northwest District Office at (419)352-8461 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, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
SEMCO, INC.**

Facility ID: 0351010070
Permit Number: P0087342
Permit Type: Renewal
Issued: 4/27/2010
Effective: 4/27/2010
Expiration: 4/27/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
SEMCO, INC.

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Authorization

Facility ID: 0351010070
Application Number(s): A0018298
Permit Number: P0087342
Permit Description: Renewal PTIO for operations at a copper beryllium foundry
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 4/27/2010
Effective Date: 4/27/2010
Expiration Date: 4/27/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SEMCO, INC.
1025 POLE LANE ROAD
MARION, OH 43302

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, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

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: P0087342
Permit Description: Renewal PTIO for operations at a copper beryllium foundry

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

- Emissions Unit ID: F001**
Company Equipment ID: Sand Pile
Superseded Permit Number: 03-13673
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P002**
Company Equipment ID: Electric Induction Furnace w/ Baghouse
Superseded Permit Number: 03-07911
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P003**
Company Equipment ID: Core Cleanout Table w/ Baghouse
Superseded Permit Number: 03-07911
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P004**
Company Equipment ID: Snag Grinder/ Cut-Off Saw w/ Baghouse
Superseded Permit Number: 03-07911
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P005**
Company Equipment ID: Shake-Out Unit/Jacket Removal w/ Baghouse
Superseded Permit Number: 03-07911
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P006**
Company Equipment ID: Electric Induction Furnace w/ Baghouse
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P007**
Company Equipment ID: 400 lb/hr electric induction furnace
Superseded Permit Number: 03-13344
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P008**
Company Equipment ID: Dross removal unit #1
Superseded Permit Number: 03-13344
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P009**
Company Equipment ID: Dross removal unit #2
Superseded Permit Number: 03-13344
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P010**
Company Equipment ID: Pouring station
Superseded Permit Number: 03-13344
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P012**
Company Equipment ID: Back-Up Furnace



Superseded Permit Number: 03-13728
General Permit Category and Type: Not Applicable

Emissions Unit ID: P013
Company Equipment ID: Pouring Station
Superseded Permit Number: 03-13728
General Permit Category and Type: Not Applicable

Emissions Unit ID: P014
Company Equipment ID: Dross Removal Station
Superseded Permit Number: 03-13728
General Permit Category and Type: Not Applicable

Emissions Unit ID: P015
Company Equipment ID: Cutting/Grinding Station
Superseded Permit Number: 03-13728
General Permit Category and Type: Not Applicable

Emissions Unit ID: P901
Company Equipment ID: Melting Furnace
Superseded Permit Number: 03-13728
General Permit Category and Type: Not Applicable

Group Name: Group #1

Emissions Unit ID:	R001
Company Equipment ID:	Paint Spray Booth #1 (Sand Mold Coating)
Superseded Permit Number:	03-07911
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R002
Company Equipment ID:	Paint Spray Booth #2 (Sand Mold Coating)
Superseded Permit Number:	03-07911
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R003
Company Equipment ID:	Paint Spray Booth #3 (Sand Mold Coating)
Superseded Permit Number:	03-07911
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R004
Company Equipment ID:	Paint Spray Booth #4 (Sand Mold Coating)
Superseded Permit Number:	03-07911
General Permit Category and Type:	Not Applicable

Group Name: Group #2

Emissions Unit ID:	R005
Company Equipment ID:	Spray booth #5
Superseded Permit Number:	03-13344
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	R006
Company Equipment ID:	Spray booth #6
Superseded Permit Number:	03-13344
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 Ohio EPA DAPC, Northwest 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 submitting¹ 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.

¹ 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).

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 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

SEMCO, INC.

Permit Number: P0087342

Facility ID: 0351010070

Effective Date: 4/27/2010

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. F001, Sand Pile

Operations, Property and/or Equipment Description:

Used sand storage piles

- 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 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
	load-in and load-out of storage piles [see Section b)(2)a. for identification of storage piles]	
a.	OAC rule 3745-31-05(A)(3)	0.005 ton fugitive particulate emissions (PE)/yr no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [see Sections b)(2)b., b)(2)c. and b)(2)f.]
b.	OAC rule 3745-17-07(B)	See b)(2)g.
c.	OAC rule 3745-17-08(B)	See b)(2)h.
	wind erosion from storage piles [see Section b)(2)a. for identification of storage piles]	
d.	OAC rule 3745-31-05(A)(3)	0.84 ton fugitive particulate emissions (PE)/yr no visible emissions except for one minute in any hour

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [see Sections b)(2)d. through b)(2)f.]
e.	OAC rule 3745-17-07(B)	See b)(2)g.
f.	OAC rule 3745-17-08(B)	See b)(2)h.

(2) Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

 - Used sand storage pile (large)
 - Used sand storage pile (small)
- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to reducing the drop height of the front-end loader buckets to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the use of a wind guard (shroud) and maintenance of as low a pile height as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if

precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- g. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- h. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
All	Daily

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
All	Daily

- (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
All	Daily

- (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind

erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

- (6) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (7) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(7)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) 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.

The permittee shall identify in the PER forms the following information concerning inspection requirements during the 12-month reporting period for this emissions unit:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

f) Testing Requirements

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

- a. Emission Limitation: 0.005 ton fugitive PE/yr from load-in and load-out of storage piles

Applicable Compliance Method: Compliance with the load-in and load-out emission limitation shall be demonstrated by multiplying an emission factor of 0.004 lb/ton as calculated from AP-42, Chapter 13.2.4.3 (1/95), a maximum throughput of 1300 tons of sand per year per storage pile, then dividing by 2000 lb/ton. The resulting value is doubled for two storage piles.

- b. Emission Limitation: 0.84 ton fugitive PE/yr from wind erosion

Applicable Compliance Method: Compliance with the wind erosion emission limitation shall be demonstrated by multiplying an emission factor of 2.72 lbs/acre/day as calculated from U.S. EPA's Control of Open Fugitive Dust Sources (9/88), a maximum storage pile surface area of 1.7 acres, a maximum operating schedule of 365 days per year, then dividing by 2000 lbs/ton.

- c. Emission Limitation: no visible emissions except for one minute in any hour

Applicable Compliance Method: Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.

2. P002, Electric Induction Furnace w/ Baghouse

Operations, Property and/or Equipment Description:

Electric induction 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 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(A)(3)	<0.1 lb particulate emissions (PE)/hr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.

b. 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) Operational Restrictions

- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.

e) Reporting Requirements

- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: <0.1 lb PE/hr

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with the visible PE limitation shall be determined in accordance with OAC rule 3745-17-03(B)(1).

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

3. P003, Core Cleanout Table w/ Baghouse

Operations, Property and/or Equipment Description:

Core cleanout table modification

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 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(A)(3)	<0.1 lb particulate emissions (PE)/hr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.

b. 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) Operational Restrictions

- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.

e) Reporting Requirements

- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: <0.1 lb PE/hr

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with the visible PE limitation shall be determined in accordance with OAC rule 3745-17-03(B)(1).

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

- g) Miscellaneous Requirements
 - (1) None.

4. P004, Snag Grinder/ Cut-Off Saw w/ Baghouse

Operations, Property and/or Equipment Description:

Snag grinder/cut-off saw modification

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 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(A)(3)	0.13 lb particulate emissions (PE)/hr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.

b. 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) Operational Restrictions

- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.

e) Reporting Requirements

- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 0.13 lb PE/hr

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with the visible PE limitation shall be determined in accordance with OAC rule 3745-17-03(B)(1).

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

- d. Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

- g) Miscellaneous Requirements
 - (1) None.

5. P005, Shake-Out Unit/Jacket Removal w/ Baghouse

Operations, Property and/or Equipment Description:

shake out unit/jacket removal modification

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 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(A)(3)	0.72 lb particulate emissions (PE)/hr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.

b. 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) Operational Restrictions

- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.

e) Reporting Requirements

- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation: 0.72 lb PE/hr

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance with the visible PE limitation shall be determined in accordance with OAC rule 3745-17-03(B)(1).

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

- d. Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

- g) Miscellaneous Requirements
 - (1) None.

6. P006, Electric Induction Furnace w/ Baghouse

Operations, Property and/or Equipment Description:

Electric Induction Furnace w/ Baghouse

- 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 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(A)(3)	0.07 lb particulate emissions (PE)/hr and 0.31 ton PE/yr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)

- (2) Additional Terms and Conditions
 - a. The Best Available Technology (BAT) requirements for this emission unit have been determined to be the use of a baghouse and compliance with the terms and conditions of this permit.

- b. 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) Operational Restrictions
 - (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- e) Reporting Requirements
 - (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.07 lb PE/hr
Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation: 0.31 ton PE/yr
Applicable Compliance Method: The ton/yr limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hours/year and ton/2000 pounds. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - c. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
Applicable Compliance Method: If required, compliance with the visible PE limitation shall be determined in accordance with OAC rule 3745-17-03(B)(1).

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility (0.022 lb/day, 0.004 tons/yr)
- e. Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) **Miscellaneous Requirements**

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

7. P007, 400 lb/hr electric induction furnace

Operations, Property and/or Equipment Description:

400 lb/hr electric induction 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. g)(1).
 - (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 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(A)(3)	0.0015 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.048 lb PE/hr and 0.21 ton PE/yr Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
 - a. The following are control requirements for emissions unit P007: the use of a baghouse.
 - b. The emissions limitation based on this applicable rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c) Operational Restrictions
 - (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall install, operate, and maintain equipment to monitor the pressure drops across the baghouses while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- e) Reporting Requirements
 - (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.0015 gr PE/dscf, 0.048 lb PE/hr and 0.21 ton PE/yr
Applicable Compliance Method: The 0.0015 grains PE/dry standard cubic foot limit is the established BAT outlet grain loading concentration. The lbs/hr limit is derived by multiplying the baghouse outlet limit of 0.0015 gr/dscf by the baghouse's exhaust volume (3717 acfm). This value is then converted to lbs/hr by multiplying pound/7000 grains and 60 minutes/hour. If required, compliance with the gr/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 – 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit is derived by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

8. P008, Dross removal unit #1

Operations, Property and/or Equipment Description:

Dross removal unit #1

- 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. g)(1).
 - (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 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(A)(3)	0.0015 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.0032 lb PE/hr and 0.014 ton PE/yr Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	None [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	None [See b)(2)c.]
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
- a. The following are control requirements for emissions unit P008: the use of a baghouse.
 - b. This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
 - c. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.
- c) Operational Restrictions
- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall install, operate, and maintain equipment to monitor the pressure drops across the baghouses while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.0015 gr PE/dscf, 0.0032 lb PE/hr and 0.014 ton PE/yr

Applicable Compliance Method: The 0.0015 grains PE/dry standard cubic foot limit is the established BAT outlet grain loading concentration. The lbs/hr limit is derived by multiplying the baghouse outlet limit of 0.0015 gr/dscf by the baghouse's exhaust volume (247 acfm). This value is then converted to lbs/hr by multiplying pound/7000 grains and 60 minutes/hour. If required, compliance with the gr/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 – 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit is derived by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

9. P009, Dross removal unit #2

Operations, Property and/or Equipment Description:

Dross removal unit #2

- 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. g)(1).
 - (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 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(A)(3)	0.0015 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.0035 lb PE/hr and 0.016 ton PE/yr Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	None [See b)(2)b.]
c.	OAC rule 3745-17-11(B)	None [See b)(2)c.]
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
- a. The following are control requirements for emissions unit P009: the use of a baghouse.
 - b. This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-11 is not applicable.
 - c. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II in OAC rule 3745-17-11 does not apply. Also, Table I does not apply since the facility is located in Marion county.
- c) Operational Restrictions
- (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall install, operate, and maintain equipment to monitor the pressure drops across the baghouses while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.0015 gr PE/dscf, 0.0035 lb PE/hr and 0.016 ton PE/yr

Applicable Compliance Method: The 0.0015 grains PE/dry standard cubic foot limit is the established BAT outlet grain loading concentration. The lbs/hr limit is derived by multiplying the baghouse outlet limit of 0.0015 gr/dscf by the baghouse's exhaust volume (276 acfm). This value is then converted to lbs/hr by multiplying pound/7000 grains and 60 minutes/hour. If required, compliance with the gr/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit is derived by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

10. P010, Pouring station

Operations, Property and/or Equipment Description:

Pouring station

- 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. g)(1).
 - (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 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(A)(3)	0.0015 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.088 lb PE/hr and 0.39 ton PE/yr Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)	See b)(2)b.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
 - a. The following are control requirements for emissions unit P010: the use of a baghouse.
 - b. The emissions limitation based on this applicable rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
- c) Operational Restrictions
 - (1) The pressure drop across the Torit baghouses shall be maintained within the range of 1 to 6 inches of water and the Flakt baghouse within the range of 1 to 8 inches of water while the emissions units are in operation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall install, operate, and maintain equipment to monitor the pressure drops across the baghouses while 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). The permittee shall record the pressure drop across the baghouse on a weekly basis.
- e) Reporting Requirements
 - (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.0015 gr PE/dscf, 0.088 lb PE/hr and 0.39 ton PE/yr
Applicable Compliance Method: The 0.0015 grains PE/dry standard cubic foot limit is the established BAT outlet grain loading concentration. The lbs/hr limit is derived by multiplying the baghouse outlet limit of 0.0015 gr/dscf by the baghouse's exhaust volume (6848 acfm). This value is then converted to lbs/hr by multiplying pound/7000 grains and 60 minutes/hour. If required, compliance with the gr/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 – 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit is derived by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: No visible particulate emissions from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in July 2001. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxics Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound are less than 1.0 ton. OAC Chapter 3745-31 requires permittee to apply for and obtain a new or modified permit prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

11. P012, Back-Up Furnace

Operations, Property and/or Equipment Description:

Electric induction 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. g)(1).
 - (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 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(A)(3)	0.002 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.042 lb PE/hr and 0.18 ton PE/yr 0.004 ton Be/yr from the entire facility Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.] See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
- a. The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of a baghouse.
 - b. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 61, Subpart C.
 - c. 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) Operational Restrictions
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on weekly basis.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.002 gr PE/dscf, 0.042 lb PE/hr and 0.18 ton PE/yr
- Applicable Compliance Method: The 0.002 gr PE/dscf limit is the established maximum outlet grain loading concentration for the baghouse. The permittee shall demonstrate compliance with the lbs/hr limit by multiplying the maximum baghouse outlet grain loading concentration of 0.002 gr/dscf by the baghouse's maximum volumetric air flow rate (2454 acfm). This value is then converted to lbs/hr by multiplying lb/7000 grains and 60 minutes/hour. If required, compliance with the gr PE/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 – 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit was established by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.004 ton Be/yr from the entire facility

Applicable Compliance Method: The permittee shall demonstrate compliance with the ton/yr limit by multiplying 10 grams/day by lb/453.6 grams. This value is then converted to ton/yr by multiplying 365 days/year and ton/2000 lbs.

- c. Emission Limitation: Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in April 2002. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

12. P013, Pouring Station

Operations, Property and/or Equipment Description:

Pouring station

- 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. g)(1).
 - (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 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(A)(3)	0.002 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.088 lb PE/hr and 0.39 ton PE/yr 0.004 ton Be/yr from the entire facility Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.] See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
- a. The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of a baghouse.
 - b. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 61, Subpart C.
 - c. 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) Operational Restrictions
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on weekly basis.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.002 gr PE/dscf, 0.088 lb PE/hr and 0.39 ton PE/yr
- Applicable Compliance Method: The 0.002 gr PE/dscf limit is the established maximum outlet grain loading concentration for the baghouse. The permittee shall demonstrate compliance with the lbs/hr limit by multiplying the maximum baghouse outlet grain loading concentration of 0.002 gr/dscf by the baghouse's maximum volumetric air flow rate (5188 acfm). This value is then converted to lbs/hr by multiplying lb/7000 grains and 60 minutes/hour. If required, compliance with the gr PE/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 – 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit was established by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.004 ton Be/yr from the entire facility

Applicable Compliance Method: The permittee shall demonstrate compliance with the ton/yr limit by multiplying 10 grams/day by lb/453.6 grams. This value is then converted to ton/yr by multiplying 365 days/year and ton/2000 lbs.

- c. Emission Limitation: Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in April 2002. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

13. P014, Dross Removal Station

Operations, Property and/or Equipment Description:

Dross removal station

- 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. g)(1).
 - (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 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(A)(3)	0.002 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.072 lb PE/hr and 0.32 ton PE/yr 0.004 ton Be/yr from the entire facility Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.] See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
 - a. The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of a baghouse.
 - b. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 61, Subpart C.
 - c. 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) Operational Restrictions
 - (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on weekly basis.
- e) Reporting Requirements
 - (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.002 gr PE/dscf, 0.073 lb PE/hr and 0.32 ton PE/yr

Applicable Compliance Method: The 0.002 gr PE/dscf limit is the established maximum outlet grain loading concentration for the baghouse. The permittee shall demonstrate compliance with the lbs/hr limit by multiplying the maximum baghouse outlet grain loading concentration of 0.002 gr/dscf by the baghouse's maximum volumetric air flow rate (4250 acfm). This value is then converted to lbs/hr by multiplying lb/7000 grains and 60 minutes/hour. If required, compliance with the gr PE/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit was established by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.004 ton Be/yr from the entire facility

Applicable Compliance Method: The permittee shall demonstrate compliance with the ton/yr limit by multiplying 10 grams/day by lb/453.6 grams. This value is then converted to ton/yr by multiplying 365 days/year and ton/2000 lbs.

- c. Emission Limitation: Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in April 2002. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

14. P015, Cutting/Grinding Station

Operations, Property and/or Equipment Description:

Cutting/grinding station

- 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. g)(1).
 - (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 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(A)(3)	0.002 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.12 lb PE/hr and 0.52 ton PE/yr 0.004 ton Be/yr from the entire facility Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.] See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
 - a. The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of a baghouse.
 - b. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 61, Subpart C.
 - c. 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) Operational Restrictions
 - (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on weekly basis.
- e) Reporting Requirements
 - (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.002 gr PE/dscf, 0.12 lb PE/hr and 0.52 ton PE/yr

Applicable Compliance Method: The 0.002 gr PE/dscf limit is the established maximum outlet grain loading concentration for the baghouse. The permittee shall demonstrate compliance with the lbs/hr limit by multiplying the maximum baghouse outlet grain loading concentration of 0.002 gr/dscf by the baghouse's maximum volumetric air flow rate (6947 acfm). This value is then converted to lbs/hr by multiplying lb/7000 grains and 60 minutes/hour. If required, compliance with the gr PE/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

The ton/yr limit was established by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.004 ton Be/yr from the entire facility

Applicable Compliance Method: The permittee shall demonstrate compliance with the ton/yr limit by multiplying 10 grams/day by lb/453.6 grams. This value is then converted to ton/yr by multiplying 365 days/year and ton/2000 lbs.

- c. Emission Limitation: Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in April 2002. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

15. P901, Melting Furnace

Operations, Property and/or Equipment Description:

Electric induction 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. g)(1).
 - (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 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(A)(3)	0.002 grains (gr) particulate emissions (PE)/dry standard cubic foot (dscf), 0.042 lb PE/hr and 0.18 ton PE/yr 0.004 ton Be/yr from the entire facility Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack. Control requirements [See b)(2)a.] See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	40 CFR, Part 61, Subpart C	Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

- (2) Additional Terms and Conditions
- a. The "Best Available Technology" (BAT) requirement for this emissions unit has been determined to be the use of a baghouse.
 - b. The requirements of this rule also include compliance with the requirements of 40 CFR, Part 61, Subpart C.
 - c. 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) Operational Restrictions
- (1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while 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). The permittee shall record the pressure drop across the baghouse on weekly basis.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation: 0.002 gr PE/dscf, 0.042 lb PE/hr and 0.18 ton PE/yr
- Applicable Compliance Method: The 0.002 gr PE/dscf limit is the established maximum outlet grain loading concentration for the baghouse. The permittee shall demonstrate compliance with the lbs/hr limit by multiplying the maximum baghouse outlet grain loading concentration of 0.002 gr/dscf by the baghouse's maximum volumetric air flow rate (2454 acfm). This value is then converted to lbs/hr by multiplying lb/7000 grains and 60 minutes/hour. If required, compliance with the gr PE/dscf and lb/hr limitations shall be demonstrated in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
- The ton/yr limit was established by multiplying the lb/hr limit by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- b. Emission Limitation: 0.004 ton Be/yr from the entire facility

Applicable Compliance Method: The permittee shall demonstrate compliance with the ton/yr limit by multiplying 10 grams/day by lb/453.6 grams. This value is then converted to ton/yr by multiplying 365 days/year and ton/2000 lbs.

- c. Emission Limitation: Visible particulate emissions shall not exceed 0% opacity, as a 6-minute average from the baghouse exhaust stack.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this limitation in accordance with Method 9 of 40 CFR, Part 60, Appendix A.

- d. Emission Limitation: Emissions shall not exceed 10 grams of beryllium over a 24 hour period for the entire facility

Applicable Compliance Method: The permittee demonstrated compliance with this limitation through required stack testing that was conducted in April 2002. If required, the permittee shall demonstrate further compliance with this limitation in accordance with Method 104 of 40 CFR, Part 61, Appendix B.

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit 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 pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit.

16. Emissions Unit Group - Group #1: R001, R002, R003, R004,

EU ID	Operations, Property and/or Equipment Description
R001	paint spray booth #1 (sand mold coating)
R002	paint spray booth #2 (sand mold coating)
R003	paint spray booth #3 (sand mold coating)
R004	paint spray booth #4 (sand mold coating)

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 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(A)(3)	51.7 lbs volatile organic compounds (VOC)/day and 1.03 tons VOC/yr from coatings and cleanup operations from each individual emission unit See b)(2)a.
b.	OAC rule 3745-17-11(C)	See c)(2) and c)(3)

(2) Additional Terms and Conditions

a. The Best Available Technology (BAT) requirements for these emission units has been determined to be compliance with the terms and conditions of this permit.

c) Operational Restrictions

- (1) The permittee shall not employ more than 10 gallons/day and 400 gallons/year of coating and clean-up materials in each emission unit. Coatings and cleanup materials applied in these emission units shall not exceed a VOC content of 5.17 pounds/gallon, unless approved by the Ohio EPA, Northwest District Office.
- (2) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- (3) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The company shall maintain daily records/calculations that list the following information for each coating and clean-up material employed in each emission unit:
 - a. the name and identification number of each coating and clean-up material employed;
 - b. the number of gallons of each coating and cleanup material employed;
 - c. the total, year to date, number of gallons of coatings and cleanup materials employed;
 - d. the VOC content of each coating on an "as applied" basis and each clean-up material, in pounds of VOC per gallon;
 - e. the total VOC emissions from each coating and clean-up material, in pounds per day [d)(1)b. x d)(1)d.];
 - f. the total VOC emissions from all coating and clean-up materials, in pounds per day [summation of d)(1)e.]; and
 - g. the annual, year to date, VOC emissions from all coating and cleanup materials employed, in tons [summation of d)(1)f.].
- (2) The company shall only use the coating materials contained in the permit to install application for emission units R001-R004 dated February 14, 1994. Any changes in the composition of these coatings, or use of additional coating materials not previously listed, requires prior notification to and approval from the Ohio EPA, Northwest District Office.
- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be

maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (4) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (5) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (6) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and
 - d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (7) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
- e) Reporting Requirements
- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations: 51.7 lbs VOC/day and 1.03 tons VOC/yr from coatings and cleanup operations from each individual emission unit

Applicable Compliance Method: The permittee shall demonstrate compliance with the daily and annual emission limitations based upon the monitoring and recordkeeping requirements specified in d)(1).

- b. Operational Restriction: The permittee shall not employ more than 10 gallons/day and 400 gallons/year of coating and clean-up materials in each emission unit.

Applicable Compliance Method: The permittee shall demonstrate compliance with the above operational restriction based upon the monitoring and recordkeeping requirements specified in d)(1).

- c. Operational Restriction: Coatings and cleanup materials applied in these emission units shall not exceed a VOC content of 5.17 pounds/gallon.

Applicable Compliance Method: The permittee shall demonstrate compliance with the above operational restriction based upon the monitoring and recordkeeping requirements specified in d)(1).

g) Miscellaneous Requirements

- (1) None.

17. Emissions Unit Group - Group #2: R005, R006,

EU ID	Operations, Property and/or Equipment Description
R005	Spray booth #5
R006	Spray booth #6

- 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. d)(3) through d)(7).
- (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 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(A)(3)	3.10 lbs volatile organic compounds (VOC)/hr and 13.59 tons VOC/yr from the application of coatings from each individual emission unit 1421 lbs VOC/month and 15.55 tons VOC/yr from cleanup operations from each individual emission unit See b)(2)a.
b.	OAC rule 3745-17-11(C)	See c)(1) and c)(2)

- (2) Additional Terms and Conditions
- a. The Best Available Technology (BAT) requirements for these emission units have been determined to be compliance with the terms and conditions of this permit.

c) Operational Restrictions

- (1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.
- (2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following each month:
 - a. the name and identification of each coating employed;
 - b. the VOC content of each coating, in pounds per gallon, as applied;
 - c. the number of gallons of each coating employed;
 - d. the total VOC emissions from each coating employed [d)(1)b. x d)(1)c.], in pounds;
 - e. the total VOC emissions from all coatings [summation of d)(1)d.], in pounds; and
 - f. in conjunction with the recordkeeping above, the permittee shall calculate and record the annual, year to date VOC emissions from all coatings employed [summation of d)(1)e. for each calendar month to date from January to December].
- (2) The permittee shall calculate and record the following information each month for this emissions unit:
 - a. the name and identification number of each clean up material employed;
 - b. the VOC content of each clean up material, in pounds/gallon;
 - c. the number of gallons of each clean up material employed;
 - d. the total emissions of VOC from each clean up material [d)(2)b. x d)(2)c.], in pounds; and
 - e. the total emissions of VOC from all clean up materials [summation of d)(2)d.], in pounds; and
 - f. the annual, year to date VOC emissions from all clean up materials employed, [summation of d)(2)e. for each calendar month to date from January to December].

- (3) This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitations specified in this permit were established using the Ohio EPA's "Air Toxic Policy" and are based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant: isopropyl alcohol

TLV (ug/m3): 983,000

Maximum Hourly Emission Rate (lbs/hr): *7.10

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 4322

MAGLC (ug/m3): 23,405

*This number represents the isopropyl alcohol emissions from the cleanup materials from R005 and R006.

- (4) OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":
- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
 - b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
 - c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
 - d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.
- (5) The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
 - b. the permittee can continue to comply with the allowable emission limitations specified in its permit; and
 - c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.
- (6) For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit prior to the change.
- (7) The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
- (8) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.
- (9) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.
- (10) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.
- (11) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:
- a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and

- d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

- (12) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

e) Reporting Requirements

- (1) 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 the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations: 3.10 lbs VOC/hr and 13.59 tons VOC/yr from the application of coatings from each individual emission unit

Applicable Compliance Method: No record keeping is required to show compliance with the hourly emission limitation because the limits are based on the source's potential to emit*.

*The potential emit for this emissions unit was determined by multiplying the maximum hourly gallon usage and the VOC content of the coating.

$$(5.17 \text{ lbs VOC/gal}) (0.6 \text{ gal/hr}) = 3.10 \text{ lbs VOC/hr}$$

Compliance with the tons/yr emission limitation shall be based upon the recordkeeping requirements specified in section d)(1) of this permit.

- b. Emission Limitations: 1421 lbs VOC/month and 15.55 tons VOC/yr from cleanup operations from each individual emission unit

Applicable Compliance Method: Compliance with the lbs/month and tons/yr emission limitations shall be based upon the recordkeeping requirements specified in section d)(2) of this permit.

- g) Miscellaneous Requirements
 - (1) None.