



State of Ohio Environmental Protection Agency

STREET ADDRESS:

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

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MAILING ADDRESS:

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

7/15/2008

Ms. Cheryl Arkenberg
Ross Casting and Innovation LLC
402 South Kuther Rd.,
Sidney, OH 45365

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0575015001
Permit Number: P0103639
Permit Type: Initial installation
County: Shelby

Certified Mail

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

Dear Permit Holder:

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

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

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

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

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

Sincerely,

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

Cc: Ohio EPA-SWDO

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



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

FINAL

**Air Pollution Permit-to-Install and Operate
for
Ross Casting and Innovation LLC**

Facility ID: 0575015001
Permit Number: P0103639
Permit Type: Initial installation
Issued: 7/15/2008
Effective: 7/15/2008
Expiration: 7/15/2018



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Permit-to-Install and Operate
for
Ross Casting and Innovation LLC

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Final Permit-to-Install and Operate
Permit Number: P0103639
Facility ID: 0575015001
Effective Date: 7/15/2008

Authorization

Facility ID: 0575015001
Application Number(s): A0035507
Permit Number: P0103639
Permit Description: Installation of 22 electric melt furnaces and plaster cast waste handling system
Permit Type: Initial installation
Permit Fee: \$0.00
Issue Date: 7/15/2008
Effective Date: 7/15/2008
Expiration Date: 7/15/2018
Permit Evaluation Report (PER) Annual Date: November 15, for October 1 – September 30

This document constitutes issuance to:

Ross Casting and Innovation LLC
402 South Kuther Rd.,
Sidney, OH 45365

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

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

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



Authorization (continued)

Permit Number: P0103639
Permit Description: Installation of 22 electric melt furnaces and plaster cast waste handling system

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

Emissions Unit ID: P023
Company Equipment ID: 5000-PLC
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Group Name: Electric Melting Furnaces

Emissions Unit ID:	P001
Company Equipment ID:	212-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P002
Company Equipment ID:	213-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P003
Company Equipment ID:	214-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P004
Company Equipment ID:	215-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P005
Company Equipment ID:	216-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P006
Company Equipment ID:	217-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P007
Company Equipment ID:	650-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P008
Company Equipment ID:	651-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P009
Company Equipment ID:	652-APF



Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P010
Company Equipment ID:	653-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P011
Company Equipment ID:	654-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P012
Company Equipment ID:	655-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P013
Company Equipment ID:	656-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P014
Company Equipment ID:	657-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P015
Company Equipment ID:	658-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P016
Company Equipment ID:	659-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P017
Company Equipment ID:	1100-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P018
Company Equipment ID:	1101-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P019
Company Equipment ID:	1102-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P020
Company Equipment ID:	1103-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P021



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Final Permit-to-Install and Operate
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Effective Date: 7/15/2008

Company Equipment ID:	1104-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P022
Company Equipment ID:	1105-APF
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

A. Standard Terms and Conditions



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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

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

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

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



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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

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.

None.



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

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

C. Emissions Unit Terms and Conditions



1. P023, 5000-PLC

Operations, Property and/or Equipment Description:

Waste Plaster handling

- 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).

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.

None.

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.

None.

- b) Applicable Emissions Limitations and/or Control Requirements

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)	Particulate emissions (PE) shall not exceed 2.52 pounds per hour Visible particulate emissions from any stack shall not exceed 20 percent opacity
b. OAC rule 3745-17-07	c)(1), below. The requirements established pursuant are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3)
c. OAC rule 3745-17-11(B)(1)	The requirements established pursuant are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

Additional Terms and Conditions

The hourly particulate emission (PE) of 2.52 pounds per hour is based on the maximum potential that this emissions unit can emit. Therefore, it is not necessary to



establish record keeping and reporting requirements to ensure compliance with the hourly emission rate.

c) Operational Restrictions

This emissions unit shall be equipped with enclosures in such a manner as to minimize and/or eliminate and visible emissions.

d) Monitoring and/or Recordkeeping Requirements

The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack and for any visible fugitive PE from the egress points (ie., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operational log. If visible emissions are observed, the permittee shall also note the following in the operational log:

the color of the emissions;

the total duration of any visible emission incident; and

any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

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 include the following information in the reports:

identify all days during which any visible PE were observed from any stack serving this emissions unit;

identify all days during which any visible fugitive PE were observed from any egress point (i.e., building windows, doors, roof monitors, etc...) serving this emissions unit; and

describe the corrective actions taken to eliminate the visible PE.

These reports shall be submitted to the Ohio EPA, Southwest District Office as specified in this permit.

f) Testing Requirements

Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

2.52 pounds of particulate emissions (PE) per hour



The hourly particulate emission limitation is based on the following equation:

$$HER = (Pr \times EF) \times (1 - Ce)$$

Where:

HER = Hourly Emission Rate, in pounds per hour;

Pr = Process Rate, in tons (21 tons/hr from EAC form);

EF = Emission Factor, in pounds per ton (1.2, AP-42 Table 12.10-7); and

Ce= Control Efficiency , (90% (0.9), based on best estimate on the use of enclosures and the nature of the material being processed).

Applicable Compliance Method:

If required, compliance with the PE limitations shall be demonstrated through an emissions source test performed in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 – 5.

Emission Limitation:

20% Opacity, as a six minute average, from the stack.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 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 OAC rule 3745-17-03.

g) Miscellaneous Requirements

None.



2. Emissions Unit Group - Electric Melting Furnaces: P001, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P019, P020, P021, P022,

EU ID	Operations, Property and/or Equipment Description
P001	0.1125 Atmospheric Pressure Electric Melting Furnace-P001
P002	0.1125 Atmospheric Pressure Electric Melting Furnace-P002
P003	0.1125 Atmospheric Pressure Electric Melting Furnace-P003
P004	0.1125 Atmospheric Pressure Electric Melting Furnace-P004
P005	0.1125 Atmospheric Pressure Electric Melting Furnace-P005
P006	0.1125 Atmospheric Pressure Electric Melting Furnace-P006
P007	0.1125 Atmospheric Pressure Electric Melting Furnace-P007
P008	0.1125 Atmospheric Pressure Electric Melting Furnace-P008
P009	0.1125 Atmospheric Pressure Electric Melting Furnace-P009
P010	0.1125 Atmospheric Pressure Electric Melting Furnace-P010
P011	0.1125 Atmospheric Pressure Electric Melting Furnace-P011
P012	0.1125 Atmospheric Pressure Electric Melting Furnace-P012
P013	0.1125 Atmospheric Pressure Electric Melting Furnace-P013
P014	0.1125 Atmospheric Pressure Electric Melting Furnace-P014
P015	0.1125 Atmospheric Pressure Electric Melting Furnace-P015
P016	0.1125 Atmospheric Pressure Electric Melting Furnace-P016
P017	0.1125 Atmospheric Pressure Electric Melting Furnace-P017
P018	0.1125 Atmospheric Pressure Electric Melting Furnace-P018
P019	0.1125 Atmospheric Pressure Electric Melting Furnace-P019
P020	0.1125 Atmospheric Pressure Electric Melting Furnace-P020
P021	0.1125 Atmospheric Pressure Electric Melting Furnace-P021
P022	0.1125 Atmospheric Pressure Electric Melting Furnace-P022

h) 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).

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.

None.

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.

None.

i) Applicable Emissions Limitations and/or Control Requirements

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

- a. OAC 3745-31-05(A)(3)(b)
- b. OAC rule 3745-17-07

- c. OAC rule 3745-17-11(B)(1)

Applicable Emissions Limitations/Control Measures

b)(2)a, below
 Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.
 Particulate emissions (PE) shall not exceed 0.95 pounds per hour.

(1) Additional Terms and Conditions

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions from this emissions unit since the controlled particulate emissions are less than ten tons per year.

j) Operational Restrictions

None.

k) Monitoring and/or Recordkeeping Requirements

None.

l) Reporting Requirements

None.

m) Testing Requirements

Compliance with the emission limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.95 pounds of particulate emissions (PE) per hour

The hourly particulate emission limitation is based on the following equation:

$$(E) = 4.10 \times [(P) \text{ to the power of } 0.67]$$

Where:

(E) = Allowable Rate of Particulate Emission; and

(P) = Process Weight Rate, (225 lbs/hr of aluminum (0.113 tons/hr)).

* Equation is from OAC rule 3745-17-11 Appendix Table I. Figure II is not applicable since the uncontrolled mass rate of emissions is less than ten pounds per hour.

Emission Limitation:



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0103639

Facility ID: 0575015001

Effective Date: 7/15/2008

20% Opacity, as a six minute average, from the stack.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 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 OAC rule 3745-17-03.

n) Miscellaneous Requirements

None.