



Environmental Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

6/21/2012

Certified Mail

Mr. Trevor Beers  
Nucor Steel Marion, Inc.  
912 Cheney Avenue  
Marion, OH 43301-1801

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL  
Facility ID: 0351010017  
Permit Number: P0110186  
Permit Type: Administrative Modification  
County: Marion

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," 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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Northwest District Office. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc) by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: U.S. EPA  
Ohio EPA-NWDO





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install  
for  
Nucor Steel Marion, Inc.**

Facility ID:	0351010017
Permit Number:	P0110186
Permit Type:	Administrative Modification
Issued:	6/21/2012
Effective:	6/21/2012





Division of Air Pollution Control
Permit-to-Install
for
Nucor Steel Marion, Inc.

Table of Contents

Authorization ..... 1
A. Standard Terms and Conditions ..... 3
1. Federally Enforceable Standard Terms and Conditions ..... 4
2. Severability Clause ..... 4
3. General Requirements ..... 4
4. Monitoring and Related Record Keeping and Reporting Requirements ..... 5
5. Scheduled Maintenance/Malfunction Reporting ..... 6
6. Compliance Requirements ..... 6
7. Best Available Technology ..... 7
8. Air Pollution Nuisance ..... 7
9. Reporting Requirements ..... 7
10. Applicability ..... 8
11. Construction of New Sources(s) and Authorization to Install ..... 8
12. Permit-To-Operate Application ..... 9
13. Construction Compliance Certification ..... 9
14. Public Disclosure ..... 9
15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations ..... 10
16. Fees ..... 10
17. Permit Transfers ..... 10
18. Risk Management Plans ..... 10
19. Title IV Provisions ..... 10
B. Facility-Wide Terms and Conditions ..... 11
C. Emissions Unit Terms and Conditions ..... 13
1. Emissions Unit Group - Meltshop Operations: P004, P005, P007, P012, P013, P014, P015, P903 .... 14



## Authorization

Facility ID: 0351010017  
Facility Description: Steel Mill  
Application Number(s): M0001737  
Permit Number: P0110186  
Permit Description: Administrative modification to address superseding issues in permit. Additional language was incorporated to allow the facility to operate under the previous permit for emissions unit P903 until the modification was complete then they would start operation under the above permit  
Permit Type: Administrative Modification  
Permit Fee: \$0.00  
Issue Date: 6/21/2012  
Effective Date: 6/21/2012

This document constitutes issuance to:

Nucor Steel Marion, Inc.  
912 Cheney Avenue  
Marion, OH 43301-1801

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

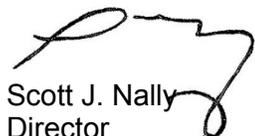
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

The above named entity is hereby granted a Permit-to-Install for the 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 emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

  
Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0110186

Permit Description: Administrative modification to address superseding issues in permit. Additional language was incorporated to allow the facility to operate under the previous permit for emissions unit P903 until the modification was complete then they would start operation under the above permit

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

<b>Emissions Unit ID:</b>	<b>P004</b>
Company Equipment ID:	Continuous Caster
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P005</b>
Company Equipment ID:	Ladle Preheat furnace
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P007</b>
Company Equipment ID:	Tundish Preheat furnace
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P012</b>
Company Equipment ID:	Z025
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P013</b>
Company Equipment ID:	Z026
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P014</b>
Company Equipment ID:	Z027
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P015</b>
Company Equipment ID:	Z028
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P903</b>
Company Equipment ID:	Elec. Arc Furnace #3
Superseded Permit Number:	P0105283
General Permit Category and Type:	Not Applicable

## **A. Standard Terms and Conditions**

**1. Federally Enforceable Standard Terms and Conditions**

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
  - (1) Standard Term and Condition A.2.a), Severability Clause
  - (2) Standard Term and Condition A.3.c) through A. 3.e)General Requirements
  - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
  - (4) Standard Term and Condition A.9., Reporting Requirements
  - (5) Standard Term and Condition A.10., Applicability
  - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
  - (7) Standard Term and Condition A.14., Public Disclosure
  - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
  - (9) Standard Term and Condition A.16., Fees
  - (10) Standard Term and Condition A.17., Permit Transfers

**2. Severability Clause**

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

**3. General Requirements**

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

#### **4. Monitoring and Related Record Keeping and Reporting Requirements**

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - (1) The date, place (as defined in the permit), and time of sampling or measurements.
  - (2) The date(s) analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of such analyses.
  - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.

- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Ohio EPA DAPC, Northwest District Office. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
  - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Ohio EPA DAPC, Northwest District Office every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northwest District Office in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## 6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- c) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- d) The permittee shall submit progress reports to the Ohio EPA DAPC, Northwest District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**7. Best Available Technology**

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

**8. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**9. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Ohio EPA DAPC, Northwest District Office.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have

been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northwest District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

## 10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

## 11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., 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) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" 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).

- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

## 12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

## 13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

## 14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**16. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**17. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

**18. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**19. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

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

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

a) None.

2. The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart YYYYYY, National Emission Standards for Hazardous Air Pollutants for Area Sources, Electric Arc Furnace Steelmaking Facilities: P903. The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District office or local air agency.

The permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart YYYYYY. The permittee shall also comply with all applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 1 of 40 CFR Part 63, Subpart YYYYYY. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart YYYYYY, and Subpart A.

40 CFR Part 63, Subpart YYYYYY contains MACT Standards for the control of Mercury and generally achievable control technology (GACT) standards for hazardous air pollutants other than Mercury. Ohio EPA was delegated authority of MACT standards by the U.S. EPA, but it should be noted that the authority to implement the GACT standards currently resides with the U.S. EPA.

3. Within 60 days of the effective date of this permit, the permittee shall submit to the Ohio EPA a proposal to install and operate an ambient monitoring station. The ambient monitoring station shall be installed and operated for purposes of gathering air quality data concerning concentrations of manganese (Mn) and mercury (Hg). The ambient monitoring proposal shall include a meteorological station. All air quality monitors installed as part of the proposal shall be sited and operated in accordance with all Ohio EPA and U.S. EPA regulations. The ambient monitoring station proposal will require the approval of the Ohio EPA.

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



**1. Emissions Unit Group -Meltshop Operations: P004, P005, P007, P012, P013, P014, P015, P903**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P004	Continuous casting operations (including torch cutting)
P005	Natural gas-fired ladle preheater (7.5 mmBtu/hr)
P007	Natural gas-fired tundish preheater (4 mmBtu/hr)
P012	Natural gas-fired ladle preheater (7.5 mmBtu/hr)
P013	Natural gas-fired ladle preheater (8 mmBtu/hr)
P014	Natural gas-fired ladle preheater (8 mmBtu/hr)
P015	Natural gas-fired tundish preheater (4 mmBtu/hr)
P903	Electric arc furnace operations (including charging, melting, tapping, slag skimming/handling, etc.)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) b)(1)d., b)(1)m., b)(2)c.ii., and d)(6).

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rules 3745-31-10 through 3745-31-20	See b)(2)a.  Combined meltshop emission limitations* for emissions units P004, P005, P007, P012, P013, P014, P015, and P903:  Particulate matter 10 microns or less in size (PM10): 0.0052 gr/dscf and 115.63 tons per rolling, 12-month period  Particulate matter 2.5 microns or less in size (PM2.5): 0.0049 gr/dscf and 108.96 tons per rolling, 12-month period  Lead (Pb): 0.002 pound per ton of steel produced and 0.657 ton per rolling, 12-month period

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>Sulfur dioxide (SO<sub>2</sub>): 0.5 pound per ton of steel produced and 164.25 tons per rolling, 12-month period</p> <p>Carbon monoxide (CO): 2.32 pounds per ton of steel produced and 761.25 tons per rolling, 12-month period</p> <p>Nitrogen dioxides (NO<sub>x</sub>): 0.43 pound per ton of steel produced and 141.58 tons per rolling, 12-month period</p> <p>Volatile organic compounds (VOC): 0.13 pound per ton of steel produced and 42.71 tons per rolling, 12-month period</p> <p>Mercury (Hg): 0.00033 lb/ton of steel produced and 0.108 ton per rolling, 12-month period</p> <p>See b)(2)a.</p>
b.	ORC 3704.03(T)	See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	See b)(2)c.i.
d.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)c.ii.
e.	OAC rule 3745-17-11(B)	See b)(2)d.
f.	OAC rule 3745-17-07(A)	See b)(2)e.
g.	OAC rule 3745-17-08(A)	See b)(2)f.
h.	OAC rule 3745-17-07(B)	See b)(2)g.
i.	OAC rule 3745-18-06(E)	See b)(2)h.
j.	40 CFR Part 60, Subpart AAa 40 CFR 60.270a – 60.276a  40 CFR Part 60, Subpart A 40 CFR 60.1 - 19	See b)(2)i.
k.	MACT, Subpart YYYYY 40 CFR 63.10680 – 63.10690	See Section B.2.
l.	40 CFR 63.1 – 63.15	Table 1 to 40 CFR, Part 63, Subpart YYYYY – Applicability of General Provisions to Subpart YYYYY specifies the applicable General Provisions from 40 CFR 63.1 – 63.15.

m.	ORC 3704.03(F) OAC rule 3745-114-01	See d)(6).
n.	Incorporation by reference requirements for pre modification operations	See b)(2)j.

\*The combined limitations shall be based on meltshop emissions from 2 stacks - the stack of the baghouse control system serving the meltshop operations and a stack serving emissions units P013 and P014 which exhausts directly to the atmosphere.

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control technology (BACT) for meltshop operations (emissions units P004, P005, P007, P012, P013, P014, P015, and P903). BACT has been determined to be the following:

Pollutant	BACT Requirements
PM2.5 PM10 Pb	Building enclosure (meltshop) equipped with a canopy hood/baghouse system capable of achieving 100% capture of all emissions within the meltshop building*.
	Direct-shell evacuation control (DEC) vented to baghouse for EAF (emissions unit P903)
	Maximum outlet concentration(s) from the baghouse of: 0.0049 gr PM2.5/dscf; 0.0052 gr PM10/dscf.
	Visible PE from the baghouse stack serving the meltshop shall not exhibit 3 percent (3%) opacity or greater, as a six-minute average
	0 percent (0%) opacity for visible fugitive particulate emissions from the meltshop building.
	Scrap management plan to reduce Pb emissions and emission standard of 0.002 lbPb per ton of steel produced
SO2	Emission standard of 0.5 lb per ton of steel produced.
	Use of natural gas for the continuous casting operations (emissions until P004) and ladle and tundish preheaters.
	The BACT analysis determined that no add-on controls were cost-effective for the reduction of SO2.
CO	Emission standard of 2.32 lb per ton of steel produced.
	DEC control – CO captured by the DEC is oxidized at the air gap between the DEC elbow and DEC duct.
	The BACT analysis determined that no add-on controls were cost-effective for the reduction of CO.

NOx	Emission standard of 0.43 lb per ton of steel produced.
	The BACT analysis determined that no add-on controls were cost-effective for the reduction of NOx.
VOC	Scrap management plan to reduce VOC emissions and emission standard of 0.13 lb per ton of steel produced.
Hg	Scrap management plan to reduce Hg emissions and an emission standard of 0.00033 lb Hg per ton of steel produced.

The maximum outlet concentrations and emission standards presented in the table above apply to the combined emissions from all meltshop operations. Compliance with the combined limitations shall be based on meltshop emissions from the stack of the baghouse control system serving the meltshop operations and the stack serving emissions units P013 and P014 which exhausts directly to the atmosphere.

- b. The BAT requirements under ORC 3704.03(T) have been determined to be compliance with the gr/dscf emission limitations for PM10, PM2.5, & - and compliance with the lb/ton emission limitations for SO2, NOx, VOC, Pb& CO established pursuant to OAC rules 3745-31-10 through 3745-31-20.
- c. Meltshop operations include the following emissions units which are air contaminant sources which are exempt from PTI requirements as indicated by OAC rule 3745-31-03(A)(1):

P005	Natural gas fired ladle preheater (7.5 mmBtu/hr)
P007	Natural gas fired tundish preheater (4 mmBtu/hr)
P012	Natural gas fired ladle preheater (7.5 mmBtu/hr)
P013	Natural gas fired ladle preheater (8 mmBtu/hr)
P014	Natural gas fired ladle preheater (8 mmBtu/hr)
P015	Natural gas fired tundish preheater (4 mmBtu/hr)

These emissions units have been included in this PTI action only because they are part of a major modification involving major New Source Review - Prevention of Significant Deterioration (PSD) permitting. Best Available Technology (BAT) requirements for these emissions units under OAC rule 3745-31-05(A)(3), as effective November 30, 2001, and BAT requirements under OAC rule 3745-31-05(A)(3), as effective December 1, 2006 have been determined to be the following:

- i. Taking the normally exempt permit status of the emissions units above into consideration, BAT requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, have been determined to be compliance with the combined requirements for the meltshop operations established pursuant to OAC rules 3745-31-10 through 3745-31-20; therefore, the permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit.

On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by state regulations for any NAAQS pollutant emitted at less than ten tons per year from an individual emissions unit. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- ii. OAC rule 3745-31-05(A)(3), as effective December 1, 2006, applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The BAT requirements under OAC rule 3745-31-05(A)(3), as effective December 1, 2006 do not apply to the emissions unit indicated above since the uncontrolled potential to emit for each NAAQS pollutant is less than 10 tons per year.

- d. The emission limitation specified by this rule is less stringent than the combined PM10 emission limitation established for meltshop operations pursuant to OAC rules 3745-31-10 through 3745-31-20. It should be noted that all emissions or particulate matter are PM10. PM10 emissions are inclusive of PM2.5.
- e. The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rules 3745-31-10 through 3745-31-20.
- f. 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), the meltshop operations are exempt from the requirements of OAC rule 3745-17-08.
- g. Meltshop operations are exempt from the visible PE limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B) (11) (e).
- h. For emissions unit P004 and P903, the SO2 emission limitations specified by this rule for each emissions unit is less stringent than the SO2 emissions that these emissions units contribute to the combined, melt shop limitation established pursuant to OAC rule 3745-31-10 through 3745-31-20.
- i. The emission limitations, control measures, and requirements specified by this rule are equivalent to or less stringent than the emission limitations, control measures, and requirements established pursuant to OAC rules 3745-31-10 through 20.
- j. This PTI addresses a modification of the "meltshop" operations associated with a proposed facility-wide expansion to allow for increased production associated with an increase in the capacity of the facility's EAF. The requirements of this permit shall become enforceable on the date the permittee commences operation

under the modification authorized by this permit. Identification of the specific date modified operation commences is required by term A.13.b) within the Standard Terms and Conditions of this permit.

Authorization and permitting requirements associated with the current operation (prior to modification) of emission units P004, P005, P007, P012, P013, P014, P015, and P903 are contained in the facility's Title V permit and are incorporated by reference (IBR) as requirements of this permit as indicated by the following:

The permittee shall comply with all applicable emission limitations/control measures, operational restrictions, monitoring and recordkeeping requirements, reporting requirements, testing requirements, and additional term and condition requirements contained in the facility's Final Title V Chapter 3745-77 permit issued 06/11/08 with an effective date of 07/02/08. The IBR requirements shall cease to be enforceable for each affected emissions unit after the date an emissions unit commences operation under the modification authorized by this permit as indicated above.

c) Operational Restrictions

- (1) The permittee shall burn only natural gas in emissions units P005, P007, P012, P013, P014, and P015.
- (2) The permittee shall not exceed 1,800 tons of steel production per day from the electric arc furnace, emissions unit P903, based on a monthly average.
- (3) The permittee shall follow the procedures outlined in its "Scrap Management Program" in order to minimize the use of scrap that contains mercury, lead, oils, plastics, and organic materials that are charged in the EAF. The "Scrap Management Program" was reviewed and approved by NWDO and shall be viewed as part of the operational requirements for the EAF permit. Any change to the "Scrap Management Program" that would increase the amount of these compounds present in the scrap, or result in the emissions of an air contaminant not previously emitted, must be approved by NWDO.
- (4) See 40 CFR Part 60, Subpart AAa (40 CFR 60.270a – 60.276a).
- (5) MACT requirements for mercury, see 40 CFR Part 63, Subpart YYYYY (40 CFR 63.10680 – 63.10690).
  - a. The permittee shall maintain, at the appropriate levels established during the most recent emission test that demonstrated that the emissions unit was compliance [See f) (5), either: The control system fan motor amperes and all damper positions; or
  - b. The volumetric flow rate through each separately ducted hood; or
  - c. The volumetric flow rate at the control device inlet and all damper positions.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information for the electric arc furnace (EAF), emissions unit P903:
  - a. the number of heats per amount of steel production each day from the EAF, in tons;
  - b. the monthly steel production from the EAF, in tons [sum of d)(1)a. for each calendar month];
  - c. the number of days per calendar month that the EAF was operating, in days/month for each calendar month; and
  - d. the steel production per day from the EAF, in tons, based on a monthly average [d)(1)b. divided by d)(1)c. for each calendar month.
- (2) For each day during which the permittee burns a fuel other than natural gas in emissions units P005, P007, P012, P013, P014, and P015, the permittee shall maintain a record of the type and quantity of fuel burned in the emissions unit(s).
- (3) See 40 CFR Part 60, Subpart AAa (40 CFR 60.270a – 60.276a).
- (4) The requirements in 40 CFR 60.273a – Emission monitoring and 40 CFR 60.274a – Monitoring of operations from 40 CFR Part 60 Subpart AAa are appropriate and sufficient for demonstrating on-going compliance with the BACT requirements established in accordance with OAC rules 3745-31-10 through 3745-31-20.
- (5) MACT requirements for mercury, see 40 CFR Part 63, Subpart YYYYY (40 CFR 63.10680 – 63.10690).
- (6) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because this permit action does not involve an increase in any toxic air contaminant, as defined in OAC rule 3745-114-01, greater than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.
- (7) The permittee shall either:
  - a. Check and record the control system fan motor amperes and damper position on a once-per-shift basis; or
  - b. Install, calibrate, operate, and maintain a monitoring device that continuously records the volumetric flow rate through each separately ducted hood; or

- c. Install, calibrate, operate, and maintain a monitoring device that continuously records the volumetric flow rate at the control device inlet and check and record damper positions on a once-per-shift basis.

The monitoring device(s) may be installed in any appropriate location in the exhaust duct such that reproducible flow rate monitoring will result. The flow rate monitoring devices shall have an accuracy of +/- 10 percent (10%) over their normal operating range and shall be calibrated according to the manufacturer's instructions. The permittee may be required to demonstrate the accuracy of the monitoring devices relative to Methods 1 and 2 of Appendix A or 40 CFR, Part 60.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify any exceedance of the 1,800 tons steel production per day from the electric arc furnace, emissions unit P903, based on a monthly average.
- (3) The permittee shall submit quarterly deviation (excursion) reports that identify all reportable items as required in 40 CFR 60.276a. Submission of the reporting requirements of 40 CFR 60.276a on a quarterly basis (as opposed to semi-annually) will be appropriate and sufficient for meeting reporting requirements associated with BACT.
- (4) The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
- (5) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in emissions units P005, P007, P012, P013, P014, and P015. Each report shall be submitted within 30 days after the deviation occurs.
- (6) See 40 CFR Part 60, Subpart AAa (40 CFR 60.270a – 60.276a).
- (7) MACT requirements for mercury, see 40 CFR Part 63, Subpart YYYYY (40 CFR 63.10680 – 63.10690).
- (8) In accordance with the monitoring and recordkeeping requirements specified in d)(7) the permittee shall submit semiannual reports that either:
  - a. identify operation of control system fan motor amperes at values exceeding +/- 15 percent (15%) of the value established during the most recent compliance test; or

- b. identify operation at volumetric flow rates through each separately ducted hood exceeding values +/- 10 percent (10%) of the value established during the most recent compliance test; or
- c. identify operation at volumetric flow rates at the control device inlet exceeding values +/- 10 percent (10%) of the value established during the most recent compliance test.

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for the meltshop operations (emissions units P004, P005, P007, P012, P013, P014, P015 and P903 in accordance with the following requirements:

- a. The emission testing shall be conducted within 180 days following start-up of operations (as modified) under the provisions of this permit. The testing time frame specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office. Future testing requirements shall be conducted in accordance with applicable rules, policies, etc. (i.e.: Engineering Guide #16, OAC rule 3745-15-04, etc.).
- b. The emission testing shall be conducted to demonstrate compliance with the allowable emission limitations for PM10, PM2.5, Pb, SO2, CO, NOx, and VOC.
- c. Methods 1-4 and the following additional test methods from 40 CFR, Part 60, Appendix A shall be employed to demonstrate compliance with the allowable mass emission rates:

<u>Pollutant</u>	<u>Test Method</u>
NOx	Method 7
CO	Method 10
VOC	Methods 18, 25, or 25A, as appropriate
SO2	Method 6
Lead	Method 29
Mercury	Method 29

PM2.5/PM10 testing shall be performed using Method 201/201A and 202 of 40 CFR Part 51, Appendix M;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA Northwest District Office.

- d. The test(s) shall be conducted while the emissions unit(s) is operating at or near maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Acceptable test conditions pertaining to maximum capacity are outlined in a testing guidance document titled "Explanation of Ohio EPA's "test at max" policy for requiring performance testing to be conducted while emission units operate at maximum capacity". Testing guidance documents are available on Ohio EPA's website.

For test(s) not conducted at maximum capacity as specified above, the permittee may demonstrate through recordkeeping of post-test operating rates that the operating level(s) obtained during the test(s) are representative of a maximum operating rate that the emissions unit(s) is expected not to exceed. The maximum operating rate will be considered acceptable towards demonstrating that the emissions unit(s) is able to continuously comply with applicable emission limitations.

A retest of the emissions unit(s) will be necessary if records of post-test operating rates indicate that the maximum operating rate established during the test(s) is no longer representative of the expected maximum operating capacity. Evaluations of post-test operating rates to determine if they are representative of a maximum operating rate shall be performed in accordance with the same procedures for evaluating maximum capacity as outlined above.

- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.
- h. For the purpose of determining the process weight rate during stack testing, the following procedures shall be followed:
  - i. The maximum process weight rate for stack testing purposes is -1,800 tons steel produced per day from the EAF. Each heat shall be maximized for weight.
  - ii. The process weight rate shall be determined by measuring the steel produced at the EAF per hour for each test run, prorated over a 24-hour period.

(EAF -steel produced/ton) times (24 hours/day)

- iii. The total time duration and production output for any partial EAF heats included within each baghouse test run will be incorporated into the process weight rate calculation.
- iv. The average of the meltshop totals from the three test runs will be calculated to determine the process weight rate from the stack test.
- i. For the purpose of determining compliance with the pound/ton emission limits during stack testing, the following procedures shall be followed:
  - i. The meltshop production output during the stack test will be determined by calculating the tons of steel produced in the heat(s) during each test run period.
  - ii. The total time duration and production output for any partial heats included within the test run will be incorporated into the production calculation.
  - iii. Any time periods when testing was halted for abnormal delays will be subtracted from the EAF for the production calculation.
- (2) See 40 CFR Part 60, Subpart AAa (40 CFR 60.270a – 60.276a).
- (3) MACT requirements for mercury, see 40 CFR Part 63, Subpart YYYYYY (40 CFR 63.10680 – 63.10690).
- (4) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
  - a. Emission Limitations  
Combined emission limitations from emissions units P004, P005, P007, P012, P013, P014, P015, and P903:
    - (a) 2.32pounds CO/ton steel produced;
    - (b) 0.13 pound VOC/ton steel produced;
    - (c) 0.5pound SO2/ton steel produced;
    - (d) 0.43 pound NOx per ton of steel produced
    - (e) 0.002 pound lead/ton steel produced; and
    - (f) 0.00033 pound mercury/ton steel produced

Applicable Compliance Method

The pound/ton emission limitations were supplied by the company and represent weighted averages of the emissions from all of the melt shop emissions units. The limits were established based on maximum hourly operating conditions and

a combination of best engineering judgment, past stack tests results from the facility, stack test results from similar operations at other facilities, and AP-42 emission factors. 100% of the total emissions from the melt shop are captured and vented to the meltshopbaghouse. The permittee shall demonstrate compliance with the emission limitations in accordance with the testing requirements specified in f)(1).

b. Emission Limitations

Combined emission limitations from emissions units P004, P005, P007, P012, P013, P014, P015, and P903:

- i. 141.58tons NOx per rolling, 12-month period;
- ii. 164.25 tons SO2 per rolling, 12-month period;
- iii. 761.25 tons CO per rolling, 12-month period;
- iv. 42.71 tons VOC per rolling, 12-month period;
- v. 0.657 ton lead per rolling, 12-month period; and
- vi. 0.108 ton mercury per rolling, 12-month period

Applicable Compliance Method

The annual emission limitations were established by multiplying the pound/ton limitations by the following maximum operating conditions from the EAF: 1,800 tons/day, 365 days/year, and then dividing by 2,000 pounds/ton. Therefore, provided compliance is demonstrated with the pound/ton limitations and the maximum daily number of heats, compliance with the annual emission limitations shall be demonstrated.

c. Emission Limitation

0.0052 gr PM10/dscf;

0.0049 gr PM2.5/dscf

Applicable Compliance Method

The emission limitations above were established as BACT for meltshop operations. The permittee shall demonstrate compliance with the emission limitations in accordance with the testing requirements specified in f)(1).

d. Emission Limitations:

115.63 tons PM10 per rolling, 12-month period;

108.96 tons PM2.5 per rolling, 12-month period

Applicable Compliance Method

The annual emission limitations were established by multiplying the 0.0052 grain PM10/dscf and 0.0049 gr PM2.5/dscf limitations by the maximum volumetric air flow rate from the melt shop baghouse (592,288 dscfm), and by using the following conversion factors in order to convert to tons per 12-month period: 1 pound/7,000 grains, 60 minutes/hour, 8,760 hours/year, and 1 ton/2,000 pounds. Therefore, provided compliance is demonstrated with the 0.0052 gr PM10/dscf and 0.0049 gr PM2.5/dscf limitations, compliance with the annual emission limitations shall be demonstrated.

e. Emission Limitation

Visible PE from the baghouse serving the melt shop shall not exhibit 3 percent (3%) opacity or greater, as a six-minute average.

Applicable Compliance Method

Compliance with the visible emission limitation 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") and the monitoring and recordkeeping requirements in this permit [see d)(3) and d)(4)].

f. Emission Limitation

Visible fugitive PE shall not exceed 0% opacity from the meltshop building.

Applicable Compliance Method

(5) Compliance with the visible emission limitation 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") and the monitoring and recordkeeping requirements in this permit [d)(3) and d)(4)]. During any required performance test to demonstrate compliance with the 0% opacity restriction from the meltshop, the values for the following parameters shall be determined:

- a. The control system fan motor amperes and all damper positions; or
- b. The volumetric flow rate through each separately ducted hood; or
- c. The volumetric flow rate at the control device inlet and all damper positions.

Required compliance demonstrations with the meltshop opacity limitation shall be performed in accordance with Test Methods 9, as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources") and the provisions specified in f)(2)d.- f)(2)i.

g) Miscellaneous Requirements

- (1) None.