



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

8/3/2016

RYAN BURKE
 OSCO Industries - Portsmouth Division
 Jct. Rt. 23 South & Rt. 52 East / West
 P.O. Box 1388
 Portsmouth, OH 45662-1388

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
 Facility ID: 0773010001
 Permit Number: P0120442
 Permit Type: Administrative Modification
 County: Scioto

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) 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. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

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
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

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. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Portsmouth City Health Dept., Air Pollution Unit at (740)353-5156 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA
Portsmouth; Kentucky; West Virginia



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
OSCO Industries - Portsmouth Division**

Facility ID:	0773010001
Permit Number:	P0120442
Permit Type:	Administrative Modification
Issued:	8/3/2016
Effective:	8/3/2016



Division of Air Pollution Control
Permit-to-Install
for
OSCO Industries - Portsmouth Division

Table of Contents

Authorization	1
A. Standard Terms and Conditions	4
1. Federally Enforceable Standard Terms and Conditions	5
2. Severability Clause	5
3. General Requirements	5
4. Monitoring and Related Record Keeping and Reporting Requirements.....	6
5. Scheduled Maintenance/Malfunction Reporting	7
6. Compliance Requirements	7
7. Best Available Technology	8
8. Air Pollution Nuisance	9
9. Reporting Requirements	9
10. Applicability	9
11. Construction of New Sources(s) and Authorization to Install	9
12. Permit-To-Operate Application	11
13. Construction Compliance Certification	11
14. Public Disclosure	11
15. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations	11
16. Fees.....	11
17. Permit Transfers	11
18. Risk Management Plans	12
19. Title IV Provisions	12
B. Facility-Wide Terms and Conditions.....	13
C. Emissions Unit Terms and Conditions	15
1. F001, DISA #1 MOLDING, POURING, and COOLING	16
2. P013, Disa #2 Molding, Pouring, and Cooling	18
3. P026, DISA #1 AND 2 SHAKEOUT SYSTEM.....	27



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date: 8/3/2016

Authorization

Facility ID: 0773010001
Facility Description: Grey Iron Foundry
Application Number(s): M0003827, M0003894
Permit Number: P0120442
Permit Description: Administrative modification to separate the Shakeout process from emission units F001 (Disa 1, PTI 07-092, issued 4/14/99) and P013 (Disa 2, PTI 07-00509, issued 8/22/02).
Permit Type: Administrative Modification
Permit Fee: \$1,875.00
Issue Date: 8/3/2016
Effective Date: 8/3/2016

This document constitutes issuance to:

OSCO Industries - Portsmouth Division
Jct. Rt. 23 South & Rt. 52 East / West
P.O. Box 1388
Portsmouth, OH 45662-1388

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

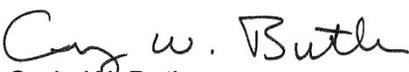
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Portsmouth City Health Dept., Air Pollution Unit
605 Washington Street
3rd Floor
Portsmouth, OH 45662
(740)353-5156

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


Craig W. Butler



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date: 8/3/2016

Director



Authorization (continued)

Permit Number: P0120442

Permit Description: Administrative modification to separate the Shakeout process from emission units F001 (Disa 1, PTI 07-092, issued 4/14/99) and P013 (Disa 2, PTI 07-00509, issued 8/22/02).

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:	DISA #1 MOLDING, POURING, and COOLING
Superseded Permit Number:	07-092
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P013
Company Equipment ID:	Disa #2 Molding, Pouring, and Cooling
Superseded Permit Number:	07-00509
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	P026
Company Equipment ID:	DISA #1 AND 2 SHAKEOUT SYSTEM
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date:8/3/2016

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) 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 Portsmouth City Health Dept., Air Pollution Unit.

- (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 Portsmouth City Health Dept., Air Pollution Unit. 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 to the Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit 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) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted

local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

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.

- b) 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.
- c) The permittee shall submit progress reports to the Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit.
- 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 Portsmouth City Health Dept., Air Pollution Unit. 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, 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) not exempt from the requirement to obtain a Permit-to-Install.

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 permittee 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 "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director 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.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- 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 operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.

13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" 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 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.



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date:8/3/2016

B. Facility-Wide Terms and Conditions



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date: 8/3/2016

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.



Final Permit-to-Install
OSCO Industries - Portsmouth Division
Permit Number: P0120442
Facility ID: 0773010001
Effective Date:8/3/2016

C. Emissions Unit Terms and Conditions



1. F001, DISA #1 MOLDING, POURING, and COOLING

Operations, Property and/or Equipment Description:

Disa #1: Mold making, pouring, and cooling with cooling controlled with the East Foundry Dust Collection (EFDC) and Central Dust Collection (CDC) baghouses and pouring controlled by the CDC baghouse.

Administrative modification to separate out the shakeout process from this emission unit since shakeout is shared by Disa 1(F001) and Disa 2 (P013) which includes the addition of a voluntary operational restriction on the Disa 1 annual production limitation of 36,000 tons, based on a rolling, 12-month summation.

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	The requirements established pursuant to this rule are equivalent to the requirements of OAC rules 3745-17-11(B) and 3745-17-07(A).
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-11(B)	Total particulate emissions from this emissions unit (based on Table 1 of OAC rule 3745-17-11) shall not exceed 19.2 pounds per hour.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The maximum annual production rate for this emissions unit shall not exceed 36,000 tons, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

- a. the production rate for each month; and
- b. the rolling, 12-month summation of the production rates.

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

Total particulate emissions from this emissions unit (based on Table 1 of OAC rule 3745-17-11) shall not exceed 19.2 pounds per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures and methods required in OAC rule 3745-17-03(B)(10).

g) Miscellaneous Requirements

(1) None.



2. P013, Disa #2 Molding, Pouring, and Cooling

Operations, Property and/or Equipment Description:

Disa #2 Mold making, pouring and cooling with cooling controlled with the East Foundry Dust Collection (EFDC), Central Dust Collection (CDC), and West Dust Collection (WDC) baghouses and pouring controlled by the WDC baghouse.

Administrative modification to separate out the shakeout process from this emission unit since shakeout is shared by Disa 1(F001) and Disa 2 (P013).

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Visible particulate emissions from the CDC and EFDC baghouse stacks shall not exceed 10% opacity, as a 6-minute average. Volatile organic compound (VOC) emissions shall not exceed 1.9 pounds per hour and 3.42 tons per year. Carbon monoxide (CO) emissions shall not exceed 40.0 pounds per hour and 72.0 tons per year.</p> <p>Nitrogen oxides (NO_x) emissions shall not exceed 0.10 pound per hour and 0.18 ton per year.</p> <p>Sulfur dioxide (SO₂) emissions shall not exceed 0.20 pound per hour and 0.36 ton per year.</p> <p>Fugitive particulate emissions shall not exceed 0.54 pound per hour and 0.97 ton per year.</p> <p>See b)(2)a.</p>
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		WDC stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from the EFDC baghouse, of all emissions units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases and 36.65 tons per year.

Particulate emissions from the CDC baghouse, of all emission units vent to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases and 36.65 tons per year.

Particulate emissions from the WDC baghouse, of all emission unit vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases and 34.04 tons per year.

If any additional emissions units are vented to the EFDC, CDC, and/or the WDC baghouses, each dust collector's allowable emission rate shall remain at 0.015 gr/dscf of exhaust gases.

The following emissions unit vent to the EFDC: F001 (cooling), F003 (shakeout), F007 (transfer from cupola), P005 and P013 (cooling).

The following emission units vent to the CDC: F001 (pouring, cooling), F002 (pouring, cooling, shakeout), F007 and P013 (cooling).

The following emission units vent to the WDC: F002 (shakeout), P002, P013 (pouring, cooling) and P026 (shakeout).

The permittee reserves the right to direct the particulate emissions from any other existing or new emissions units (once permitted and thereby considered existing) to these fabric filters with the understanding that emissions will not exceed 0.015 grain per actual cubic foot of the total exhaust gases and/or individual emission unit's permitted allowable emission limitation.

This right is allowed as long as the permittee does not trigger the modification definition pursuant to Ohio Administrative Code (OAC) rule 3745-31-01 and submits information to the Ohio EPA within thirty days after the change(s) documenting the change(s). This information would include, but not limited to, the following: a description of which emissions units were redirected to which baghouse, and calculations supporting the permittee's contention that the

redirection of existing emissions units would not trigger the modification definition pursuant to OAC rule 3745-31-01.

c) Operational Restrictions

- (1) The pressure drop across the WDC, the CDC, and the EFDC baghouses shall be maintained within the range of 2 to 9 inches of water while the emissions unit is in operation.
- (2) The maximum annual production rate for this emissions unit shall not exceed 36,000 tons, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the EFDC, CDC, and WDC baghouses while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendation, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouses on a daily basis.
- (2) The permittee shall maintain monthly records of the following information:
 - a. the production rate for each month; and
 - b. the rolling, 12-month summation of the production rates.
- (3) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the CDC, EFDC, and WDC stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.
- (4) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified above.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation.
- (3) The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible particulate emissions were observed from the CDC, EFDC, or WDC baghouse stacks serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Portsmouth local air agency by January 31 and July 31 of each year and cover the previous 6-month period.

- (4) The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e. building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible fugitive particulate emissions.

These reports shall be submitted to the Portsmouth local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

- (5) The deviation (excursion) reports shall be submitted in accordance with Part 1 – Standard Terms and Conditions of this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

Particulate emissions from the EFDC baghouse, of all emissions units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures and methods required in OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

Particulate emissions from the CDC baghouse, of all emissions units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures and methods required in OAC rule 3745-17-03(B)(10).

c. Emission Limitation:

Particulate emissions from the WDC baghouse, of all emissions units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures and methods required in OAC rule 3745-17-03(B)(10).

d. Emission Limitation:

Particulate emissions from the EFDC baghouse, of all emissions units vented to the baghouse, shall not exceed 36.65 tons per year.

Applicable Compliance Method:

The tons per year emissions limitation was developed by multiplying the particulate emission rate, 0.015 gr/dscf, times the maximum airflow from the baghouse (65,088 scf/m), times 60 minutes/hour divided by 7,000 grains/pound times the maximum potential operating schedule of 8,760 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the gr/dscf limitation, compliance will also be shown with the annual limitation.

e. Emission Limitation:

Particulate emissions from the CDC baghouse, of all emissions units vented to the baghouse, shall not exceed 36.65 tons per year.

Applicable Compliance Method:

The tons per year emissions limitation was developed by multiplying the particulate emission rate, 0.015 gr/dscf, times the maximum airflow from the

baghouse (65,088 scf/m), times 60 minutes/hour divided by 7,000 grains/pound times the maximum potential operating schedule of 8,760 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the gr/dscf limitation, compliance will also be shown with the annual limitation.

f. Emission Limitation:

Particulate emissions from the WDC baghouse, of all emissions units vented to the baghouse, shall not exceed 34.04 tons per year.

Applicable Compliance Method:

The tons per year emissions limitation was developed by multiplying the particulate emission rate, 0.015 gr/dscf, times the maximum airflow from the baghouse (60,439 scf/m), times 60 minutes/hour divided by 7,000 grains/pound times the maximum potential operating schedule of 8,760 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the gr/dscf limitation, compliance will also be shown with the annual limitation.

g. Emission Limitation:

Visible particulate emissions from the CDC and EFDC baghouse stacks shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

h. Emission Limitation:

VOC emissions shall not exceed 1.90 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.19 pound/ton VOC emission factor by the maximum iron poured, in tons/hour. The VOC emission factor obtained from a Casting Emissions Reduction Program document title "Foundry Process Emission Factors: Baseline Emissions from Automotive foundries in Mexico", dated 1/19/99.

i. Emission Limitation:

VOC emissions shall not exceed 3.42 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.19 pound/ton VOC emission factor by the actual iron poured, in tons/year, and divide by 2,000 pounds/ton. The VOC emission factor obtained from a Casting Emissions

Reduction Program document title “ Foundry Process Emission Factors: Baseline Emissions from Automotive foundries in Mexico”, dated 1/19/99.

j. Emission Limitation:

CO emissions shall not exceed 40.0 pounds per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

The emission limits were established using CO emission factors obtained from the RACT/BACT/LAER Clearinghouse database for a similar line at a GM Waupaca foundry (4 lb/ton for pouring/cooling).

k. Emission Limitation:

CO emissions shall not exceed 72.0 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor, in pounds/ton, times the actual iron poured, in tons/year, divided by 2,000 pounds/ton. The CO emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

l. Emission Limitation:

NO_x emissions shall not exceed 0.10 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.01 pound/ton NO_x emission factor by the maximum iron poured/cooled, in tons/hour. The NO_x emission factor for pouring/cooling was obtained from the FIRE database Version 6.23 (SCC 3-04-003-20).

m. Emission Limitation:

NO_x emissions shall not exceed 0.18 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.01 pound/ton NO_x emission factor by the actual iron poured/cooled, in tons/year, and divide by 2,000 pounds/ton. The NO_x emission factor for pouring/cooling was obtained from the FIRE database Version 6.23 (SCC 3-04-003-20).

n. Emission Limitation:

SO₂ emissions shall not exceed 0.20 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.02 pound/ton SO₂ emission factor by the maximum iron poured/cooled, in tons/hour. The SO₂ emission factor for pouring/cooling was obtained from the FIRE database Version 6.23 (SCC 3-04-003-20).

o. Emission Limitation:

SO₂ emissions shall not exceed 0.36 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 0.02 pound/ton SO₂ emission factor by the actual iron poured/cooled, in tons/year, and then divide by 2000 lbs/ton. The SO₂ emission factor for pouring/cooling was obtained from the FIRE database Version 6.23 (SCC 3-04-003-20).

p. Emission Limitation:

Fugitive particulate emissions shall not exceed 0.54 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. Mold Making:

Multiply the 0.04 pound/ton emission factor by the maximum iron poured, in tons/hour, times 0.30 assuming a 70% building capture efficiency. The particulate emission factor was obtained from RACM, Table 2.7-1, #15, dated 11/80.

ii. Pouring:

Multiply the 2.8 pounds/ton particulate emission factor by the maximum iron poured, in tons/hour, times 0.01 assuming a 99% capture efficiency by the baghouse. The particulate emission factor was obtained from AP-42 Section 12, Table 12.10-7, dated 1-95.

iii. Cooling:

Multiply the 1.4 pounds/ton particulate emission factor by the maximum iron poured, in tons/hour, times 0.01 assuming a 99% capture efficiency by the baghouse. The particulate emission factor was obtained from AP-42 Section 12, Table 12.10-7, dated 1-95.

q. Emission Limitation:

Fugitive particulate emissions shall not exceed 0.97 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. Mold Making:

Multiply the 0.04 pound/ton emission factor by the actual iron poured, in tons/year, divided by 2,000 pounds/ton, times 0.30 assuming a 70% building capture efficiency. The particulate emission factor was obtained from RACM, Table 2.7-1, #15, dated 11/80.

ii. Pouring:

Multiply the 2.8 pounds/ton particulate emission factor by the actual iron poured, in tons/year, times 0.01 assuming a 99% capture efficiency by the baghouse, and divided by 2,000 pounds/ton. The particulate emission factor was obtained from AP-42 Section 12, Table 12.10-7, dated 1-95.

iii. Cooling:

Multiply the 1.4 pounds/ton particulate emission factor by the actual iron poured, in tons/year, times 0.01 assuming a 99% capture efficiency by the baghouse, and divide by 2,000 pounds/ton. The particulate emission factor was obtained from AP-42 Section 12, Table 12.10-7, dated 1-95.

r. Emission Limitation:

Visible particulate emissions from the WDC baghouse stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.

3. P026, DISA #1 AND 2 SHAKEOUT SYSTEM

Operations, Property and/or Equipment Description:

Disa #1 and 2 Shakeout System controlled by the WDC baghouse.

Administrative modification to separate out the shakeout process from existing emission units F001 (Disa 1) and P013 (Disa 2) and to revise the emission limits for the pollutants VOC, CO, and Fugitive particulate emissions to voluntarily include the Disa 1 shakeout emissions not previously established in a PTI.

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) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	<p>Volatile organic compound (VOC) emissions shall not exceed 24.0 pounds per hour and 43.2 tons per year.</p> <p>Carbon monoxide (CO) emissions shall not exceed 20.0 pounds per hour and 36.0 tons per year.</p> <p>Fugitive particulate emissions shall not exceed 0.64 pound per hour and 1.15 tons per year.</p> <p>See b)(2)a.</p>
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the WDC baghouse stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. Particulate emissions from the WDC baghouse, of all emission units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases and 34.04 tons per year.

If any additional emissions units are vented to the WDC baghouse, the dust collector's allowable emission rate shall remain at 0.015 gr/dscf of exhaust gases.

The following emissions units vent to the WDC: P026 (shakeout), F002 (shakeout), P002 and P013 (pouring, cooling).

The permittee reserves the right to direct the particulate emissions from any other existing or new emissions units (once permitted and thereby considered existing) to the WDC baghouse with the understanding that emissions will not exceed 0.015 gr/dscf of the total exhaust gases and/or individual emission unit's permitted allowable emission limitation.

This right is allowed as long as the permittee does not trigger the modification definition pursuant to Ohio Administrative Code (OAC) rule 3745-31-01 and submits information to the Ohio EPA within thirty days after the change(s) documenting the change(s). This information would include, but not limited to, the following: a description of which emissions units were redirected to which baghouse, and calculations supporting the permittee's contention that the redirection of existing emissions units would not trigger the modification definition pursuant to OAC rule 3745-31-01.

c) Operational Restrictions

- (1) The pressure drop across the WDC baghouse shall be maintained within the range of 2 to 9 inches of water while the emissions unit is in operation.
- (2) The maximum annual production rate for this emissions unit shall not exceed 72,000 tons, based upon a rolling, 12-month summation of the production rates.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the WDC baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendation, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- (2) The permittee shall maintain monthly records of the following information:
- a. the production rate for each month; and
- b. the rolling, 12-month summation of the production rates.

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- (2) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation.
- (3) The permittee shall submit semiannual written reports that:
 - a. identify all days during which any visible particulate emissions were observed from the WDC baghouse stack serving this emissions unit; and
 - b. describe any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Portsmouth local air agency by January 31 and July 31 of each year and cover the previous 6-month period.

- (4) The permittee shall submit semiannual written reports that:
- identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e. building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - describe any corrective actions taken to eliminate the visible fugitive particulate emissions.

These reports shall be submitted to the Portsmouth local air agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

- (5) The deviation (excursion) reports shall be submitted in accordance with Part 1 – Standard Terms and Conditions of this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

Particulate emissions from the WDC baghouse, of all the emissions units vented to the baghouse, shall not exceed 0.015 gr/dscf of exhaust gases.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures and methods required in OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

Particulate emissions from the WDC baghouse, of all emissions units vented to the baghouse, shall not exceed 34.04 tons per year.

Applicable Compliance Method:

The tons per year emissions limitation was developed by multiplying the particulate emission rate, 0.015 gr/dscf, times the maximum airflow from the baghouse (60,439 scf/m), times 60 minutes/hour divided by 7,000 grains/pound times the maximum potential operating schedule of 8,760 hours/year, and dividing by 2,000 pounds/ton. Therefore, provided compliance is shown with the gr/dscf limitation, compliance will also be shown with the annual limitation.

c. Emission Limitation:

VOC emissions shall not exceed 24.0 pounds per hour.



Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 1.2 pound/ton VOC emission factor by the maximum iron poured, in tons/hour. The VOC emission factor obtained from the FIRE database Version 6.23 (SCC 3-04-003-31).

d. Emission Limitation:

VOC emissions shall not exceed 43.2 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 1.2 pound/ton VOC emission factor by the actual iron poured, in tons/year, and divide by 2,000 pounds/ton. The VOC emission factor obtained from the FIRE database Version 6.23 (SCC 3-04-003-31).

e. Emission Limitation:

CO emissions shall not exceed 20.0 pounds per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

The emissions limits were established using CO emission factors obtained from the RACT/BACT/LAER Clearinghouse database for a similar line at a GM Waupaca foundry (1 lb/ton for shakeout).

f. Emission Limitation:

CO emissions shall not exceed 36.0 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor, in pounds/ton, times the actual iron poured, in tons/year, divided by 2,000 pounds/ton. The CO emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

g. Emission Limitation:

Fugitive particulate emissions shall not exceed 0.64 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 3.20 pounds/ton particulate emission factor by the maximum iron poured, in tons/hour, times 0.01 assuming

a 99% capture efficiency by the baghouse. The particulate emission factor was obtained from AP-42 Section 12, Table 12.10-7, dated 1-95.

h. Emission Limitation:

Fugitive particulate emissions shall not exceed 1.15 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the 3.20 pounds/ton particulate emission factor by the maximum iron poured, in tons/year, times 0.01 assuming a 99% capture efficiency by the baghouse, and then dividing by 2000 pounds/ton. The particulate emission factor was obtained from the AP-42, Section 12, Table 12.10-7, dated 1/95.

i. Emission Limitation:

Visible particulate emissions from the WDC baghouse stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

g) Miscellaneous Requirements

(1) None.