



Environmental Protection Agency

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

8/30/2012

James Conlon
Stein Steel Mill Services, Inc.
1929 East Royalton Rd.
Broadview Heights, OH 44147

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

Facility ID: 0370010148
Permit Number: P0109004
Permit Type: Initial Installation
County: Richland

Certified Mail

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

Dear Permit Holder:

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

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

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page, 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: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Stein Steel Mill Services, Inc.**

Facility ID:	0370010148
Permit Number:	P0109004
Permit Type:	Initial Installation
Issued:	8/30/2012
Effective:	8/30/2012
Expiration:	3/16/2019



Division of Air Pollution Control
Permit-to-Install and Operate
for
Stein Steel Mill Services, Inc.

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Authorization

Facility ID: 0370010148
Application Number(s): A0043105
Permit Number: P0109004
Permit Description: The purpose of this permit is to re-permit some existing sources to make terms and conditions consistent with current operations and to permit new and/or unpermitted sources at the facility.
Permit Type: Initial Installation
Permit Fee: \$1,700.00
Issue Date: 8/30/2012
Effective Date: 8/30/2012
Expiration Date: 3/16/2019
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Stein Steel Mill Services, Inc.
1490 OLD BOWMAN ST
Mansfield, OH 44906

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

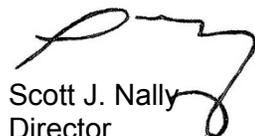
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0109004
Permit Description: The purpose of this permit is to re-permit some existing sources to make terms and conditions consistent with current operations and to permit new and/or unpermitted sources at the facility.

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: Plant Roadways and Parking Areas
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F002**
Company Equipment ID: Plant Storage Piles
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F007**
Company Equipment ID: CEC RoadRunner MR Plant
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F008**
Company Equipment ID: F008
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F009**
Company Equipment ID: F009
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: F010**
Company Equipment ID: F010
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: G001**
Company Equipment ID: G001
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P004**
Company Equipment ID: P004
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P005**
Company Equipment ID: P005
Superseded Permit Number:
General Permit Category and Type: Not Applicable

A. Standard Terms and Conditions

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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

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

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a

renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

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

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

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

7. What reports must I submit under this permit?

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

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

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

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

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

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

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

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

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

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

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

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

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

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting¹ a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

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

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

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

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

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

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.

C. Emissions Unit Terms and Conditions



1. F001, Plant Roadways and Parking Areas

Operations, Property and/or Equipment Description:

Unpaved Roadways and Parking Areas

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	1.05 tons of fugitive particulate matter of 10 microns or less in size (PM10)/yr No visible particulate emissions (PE) except for a period of time not to exceed three minutes during any 60-minute observation period See b)(2)a. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05 (A)(3), as effective 12/01/06	See b)(2)i.
c.	OAC rule 3745-17-07(B)	There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed 13 minutes during any 60-minute observation period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)j.
d.	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)h.]

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. 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 a SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirements 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.
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unpaved Roadways and Parking Areas
 all unpaved roadways and parking areas
- c. The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals and grading/resurfacing, at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- e. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of

certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

- f. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- g. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- h. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05(A)(3).
- i. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a), as effective December 1, 2006, do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit (PTE) is less than 10 tons per year

Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions from this emissions unit. BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant that does not involve an established NAAQS.

- j. The emission limitation specified by this rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

It shall be noted, however, that the emission limitation specified by this rule shall become effective after the SIP revisions identified in b)(2)i. above are approved by U.S. EPA.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>Unpaved Roadways and Parking Areas</u>	<u>Minimum Inspection Frequency</u>
all unpaved roadways and parking areas	once during each day of operation

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

- (3) The permittee shall maintain records of the following information:

- a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation.
- b. The date of each inspection where it was determined by the permittee that it was necessary to implement the control measures.
- c. The dates the control measures were implemented.
- d. On a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in d)(3)d. shall be updated on a calendar basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

- (2) The permittee shall additionally identify the following information in the annual PER in accordance with the monitoring requirements in term number d)(3) above:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

- b. each instance when a control measure that was to be implemented as a result of an inspection was not implemented.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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:
1.05 tons of fugitive particulate matter less than 10 microns in size (PM10)/year

Applicable Compliance Method:

The PM10 limitation was determined by multiplying an AP-42 emission factor for unpaved roadways of 2.35 lbs of PM10/VMT [Section 13.2.2 (11/06)] by a maximum of 4,485 vehicle miles traveled per year, applying an 80% control efficiency and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PM10 limitation will be demonstrated.

- b. Emission Limitation:
No visible PE except for a period of time not to exceed three minutes during any 60-minute observation period

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the unpaved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

- c. Emission Limitation:
There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the unpaved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

- g) Miscellaneous Requirements
 - (1) None.



2. F002, Plant Storage Piles

Operations, Property and/or Equipment Description:

Storage Piles

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific 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)(a), as effective 11/30/01	8.39 tons fugitive particulate matter of 10 microns or less in size (PM10)/year No visible emissions, except for a period of time not to exceed one minute during any 60-minute observation period. See b)(2)b. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)c.
c.	OAC rule 3745-17-07(B)	There shall be no visible emissions of fugitive dust from the material storage piles except for a period of time not to exceed 13 minutes during any 60-minute observation period See b)(2)d.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)e. through b)(2)j.]

(2) Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unprocessed material	Fce material
Slag fines	Borax
B-19	Tundish
Slag	LMF
4's	Slide gate
B scrap	Rocket tops
1's & 2's	Met fines
Oversize	Skulls
Mill scale	Tund box refract

- b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.
- c. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The "Best Available Technology (BAT)" requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions (PE) emitted from this emissions unit (PE is emitted in the form of filterable PM10 emissions). BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been

adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant without an established NAAQS.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit for PM10 is less than 10 tons/year.

- d. The emission limitation specified by this rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05 (A)(3)(a).

It shall be noted, however, that the emission limitation specified by this rule shall become effective after the SIP revisions identified in b)(2)c. above are approved by U.S. EPA.

- e. The permittee shall employ best available control measures on all load-in operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to the following control measures:

- i. LMF piles – the permittee shall apply sufficient water to ensure compliance
- ii. All other piles – the permittee shall water, as needed to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.

- f. The permittee shall employ best available control measures on all load-out (material removal) operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to the following control measures:

- i. LMF piles – the permittee shall mix the piles and add water as needed to ensure compliance with the no visible emission limitation established for this emissions unit and to comply with the visible emission limitation established for magnetic separation for emissions unit F009.
- ii. All other piles – the permittee shall water, as needed to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.

- g. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of

the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

- h. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to the follow control measures to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
 - i. LMF piles – the permittee shall apply sufficient water to ensure compliance
 - ii. All other piles – the permittee shall water, as needed to ensure compliance.
- i. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- j. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08(B) and 3745-31-05(A)(3).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
LMF	once upon completion of initial watering
All other piles	daily

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



<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
LMF	once during a load-out event
All other piles	daily

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

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
all	daily

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

- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

- (6) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more



than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

- (2) The permittee shall additionally identify the following information in the annual PER in accordance with the monitoring requirements in term number d)(6) above:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure that was to be implemented as a result of an inspection was not implemented.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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 Limitations:
8.39 tons fugitive PM10/year

Applicable Compliance Method:

Compliance with the annual PM10 emission limitation shall be determined by combining the emissions from each load-in and load-out operation and from wind erosion from each storage pile as listed in the permittee's application. Each load-in and load-out operation emission rate is based on a maximum load-in and load-out rate identified below as listed in the permit application and each wind erosion emission rate is based on the following maximum acreage for each storage pile as listed in the permit application:

Pile	Maximum Load-in/out Rate (tons)	Maximum Acreage	Moisture Content (%)	Silt Content (%)	Control Efficiency (%)
Unprocessed Mt'l	560,000		3		80
Slag fines	20,000	0.75	3	57	80
B-19	20,000	0.50	2	6	80
Slag	115,000	3.0	2	6	80
4's	20,000	0.60	3	6	80
B scrap	18,000	0.50	2	6	80
1's & 2's	25,000	0.75	3	8	80
Oversize	24,000	0.60	2	6	80

Pile	Maximum Load-in/out Rate (tons)	Maximum Acreage	Moisture Content (%)	Silt Content (%)	Control Efficiency (%)
Mill scale	65,000	1.0	3	8	80
Fce Mat'l	8,000	0.31	3	8	80
Borax	55,000	2.0	2	10	80
Tundish	20,000	1.0	2	6	80
LMF	90,000	3.0	1.5	10	80
Slide Gate	25,000	1.0	1.5	6	80
Rocket tops	20,000	1.0	1.5	6	80
Tund box refract	5,000	0.60	1.5	6	80
Met fines	20,000	0.75	2	57	80
Skulls	10,000	1.25	1	8	80

The emission rate for each pile was determined as follows:

- I. Load-in – The PM10 emission limitations were established by multiplying the maximum load-in rate given above by the appropriate emission factor calculated from AP-42 section 13.2.4 (11/06), dividing by 2000 lbs/ton, and applying an 80% control efficiency for watering, if applicable.
 - II. Load-out - The PM10 emission limitations were established by multiplying the maximum load-out rate given above by the appropriate emission factor calculated from AP-42 section 13.2.4 (11/06), dividing by 2000 lbs/ton, and applying an 80% control efficiency for watering, if applicable.
 - III. Wind Erosion - The PM10 emission limitations were established by multiplying the maximum acres as given above by the appropriate emission factor calculated from USEPA's Control of Open Fugitive Dust Sources (September 1988), multiplying by a maximum operating schedule of 365 days per year and dividing by 2000 lbs/ton.
- b. Emission Limitation:
 No visible PE except for a period of time not to exceed one minute during any 60-minute observation period

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the storage piles identified in this permit shall be determined in accordance with U.S. EPA Method 22 of 40 CFR, Part 60 Appendix A and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

- c. Emission Limitation:
 There shall be no visible emissions of fugitive dust from the material storage piles except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the storage piles identified in this permit shall be determined in accordance with U.S. EPA

Method 22 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

- g) Miscellaneous Requirements
 - (1) None.



3. F007, CEC RoadRunner MR Plant

Operations, Property and/or Equipment Description:

Main Screening Plant

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.29 ton fugitive particulate matter of 10 microns or less in size (PM10)/year See b)(2)a. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)	Visible particulate emissions of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.
d.	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The "Best Available Technology (BAT)" requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions (PE) emitted from this emissions unit (PE is emitted in the form of filterable PM10 emissions). BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant without an established NAAQS.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit for PM10 is less than 10 tons/year.

c. The permittee has committed to employ the following control measures for this emissions unit in order to satisfy the requirements of this rule:

Material Handling/Processing Operation	Control Measures
loading and unloading	wet application, as necessary*
screening	wet application, as necessary*
transfer and conveying	Wet application, as necessary*

*If at any time the moisture content of the material processed or handled is not sufficient to meet the above applicable requirements, the permittee shall employ a wet suppression control system to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- d. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08(B) and 3745-31-05(A)(3).

c) Operational Restrictions

- (1) The maximum annual material throughput for this emissions unit shall not exceed 280,000 tons based on the material throughput of the primary screen.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed through the primary screen of this emissions unit in (a) tons per month and (b) total tons, to date, for the calendar year.
- (2) Except as otherwise provided in this section, for material handling/processing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Material Handling/ Processing Operation	Minimum Inspection Frequency
each loading operation (truck dumping into a feeder, hopper, or crusher)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen	once per day of operation

- (3) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for each material handling/processing operation. The inspections shall be performed during representative, normal material handling/processing operating conditions.
- (4) The permittee shall maintain daily records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(4)d. shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements in term numbers d)(1), (2) and (3) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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:
0.29 ton fugitive PM10/year

Applicable Compliance Method:

The annual fugitive PM10 emission limitation was developed by combining the emissions from load-in/load-out with the emissions from material screening and conveying. The load-in/load-out emissions were calculated by multiplying the maximum material throughput of 280,000 tons by the appropriate AP-42 Section 13.2.4 (11/06) emission factor, applying a 80% control efficiency and then dividing by 2000 pounds/ton. The screening and conveying emissions were determined by multiplying the following controlled emission factors from AP-42

Section 11.19.2-2 (8/04) by the appropriate annual throughput identified below and then dividing by 2000 pounds/ton.

Material Handling/ Processing Operation	Maximum Annual Material Throughput (Tons)	PM10 Emission Factor
2 screens	280,000	0.00074 lb/ton processed
2 transfer points	280,000	0.000046 lb/ton processed
2 transfer points	87,500	0.000046 lb/ton processed
2 transfer points	52,500	0.000046 lb/ton processed

Therefore, provided compliance is shown with the operational restriction of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations shall be demonstrated.

b. Emission Limitation:

Visible particulate emissions of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the material handling/processing operations identified in this permit shall be determined in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

- (1) None.



4. F008, F008

Operations, Property and/or Equipment Description:

Secondary Screening Plant

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.38 ton fugitive particulate matter of 10 microns or less in size (PM10)/year See b)(2)a. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The "Best Available Technology (BAT)" requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions (PE) emitted from this emissions unit (PE is emitted in the form of filterable PM10 emissions). BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant without an established NAAQS.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit for PM10 is less than 10 tons/year.

c. The permittee has committed to employ the following control measures for this emissions unit in order to satisfy the requirements of this rule:

Material Handling/Processing Operation	Control Measures
loading and unloading	wet application, as necessary*
screening	wet application, as necessary*
transfer and conveying	Wet application, as necessary*

*If at any time the moisture content of the material processed or handled is not sufficient to meet the above applicable requirements, the permittee shall employ a wet suppression control system to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- d. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08(B) and 3745-31-05(A)(3).

c) Operational Restrictions

- (1) The maximum annual material throughput for this emissions unit shall not exceed 280,000 tons based on the material throughput of the primary screen.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed through the primary screen of this emissions unit in (a) tons per month and (b) total tons, to date, for the calendar year.
- (2) Except as otherwise provided in this section, for material handling/processing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Material Handling/ Processing Operation	Minimum Inspection Frequency
each loading operation (truck dumping into a feeder, hopper, or crusher)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen	once per day of operation

- (3) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for each material handling/processing operation. The inspections shall be performed during representative, normal material handling/processing operating conditions.
- (4) The permittee shall maintain daily records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(4)d. shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements in term numbers d)(1), (2) and (3) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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:
0.38 ton fugitive PM10/year

Applicable Compliance Method:

The annual fugitive PM10 emission limitation was developed by combining the emissions from load-in/load-out with the emissions from material screening and conveying. The load-in/load-out emissions were calculated by multiplying the maximum material throughput of 280,000 tons by the appropriate AP-42 Section 13.2.4 (11/06) emission factor, applying a 80% control efficiency and then dividing by 2000 pounds/ton. The screening and conveying emissions were determined by multiplying the following controlled emission factors from AP-42

Section 11.19.2-2 (8/04) by the appropriate annual throughput identified below and then dividing by 2000 pounds/ton.

Material Handling/ Processing Operation	Maximum Annual Material Throughput (Tons)	PM10 Emission Factor
Primary screen	280,000	0.00074 lb/ton processed
Secondary screen	227,500	0.00074 lb/ton processed
Slag screen	192,500	0.00074 lb/ton processed
3 transfer points	280,000	0.000046 lb/ton processed
5 transfer points	52,500	0.000046 lb/ton processed
2 transfer points	175,000	0.000046 lb/ton processed
5 transfer points	35,000	0.000046 lb/ton processed
1 transfer point	105,000	0.000046 lb/ton processed
1 transfer point	70,000	0.000046 lb/ton processed

Therefore, provided compliance is shown with the operational restrictions of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations shall be demonstrated.

- b. Emission Limitation:
 Visible PE of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:
 Compliance with the visible emissions limitation for fugitive dust from the material handling/processing operations identified in this permit shall be determined in accordance with U.S. EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

- g) Miscellaneous Requirements
 - (1) None.



5. F009, F009

Operations, Property and/or Equipment Description:

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	1.47 tons fugitive particulate matter of 10 microns or less in size (PM10)/year See b)(2)a. and b)(2)f. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) of fugitive dust from load-in/load-out, truck loading, drop ball operations and magnetic separation shall not exceed twenty percent opacity as a three-minute average.
d.	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)e.]

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The "Best Available Technology (BAT)" requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions (PE) emitted from this emissions unit (PE is emitted in the form of filterable PM10 emissions). BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant without an established NAAQS.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit for PM10 is less than 10 tons/year.

- c. For load-in/load-out, truck loading and ball dropping operations, the permittee has committed to loading and unloading at the lowest drop points and applying water prior to breaking any material as control measures in order to satisfy the requirements of this rule.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- d. For magnetic separation, the permittee has committed to watering and mixing LMF storage piles as identified in b)(2)e through b)(2)i. of emissions unit F002 in order to satisfy the requirements of this rule.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08(B) and 3745-31-05(A)(3).

- f. The annual emission limitations are based upon the potential to emit of this emissions unit and therefore no record keeping and reporting requirements of those limitations are necessary.
- c) Operational Restrictions
- (1) None
- d) Monitoring and/or Recordkeeping Requirements
- (1) The permittee shall perform checks of the load-in/load-out, truck loading, drop ball and magnetic separation operations when the weather conditions allow, for any visible emissions of fugitive dust. 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. 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 emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.
- If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item d)(1)d. above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
- e) Reporting Requirements
- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements in term number d)(1) above:



- a. all days during which any visible emissions of fugitive dust were observed from this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible emissions.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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:
1.47 tons fugitive particulate matter of 10 microns or less in size (PM10)/year

Applicable Compliance Method:

The annual fugitive dust emission limitation is based on the potential to emit* of this emissions unit.

*The potential to emit for this emissions unit was determined by combining the emissions from load-in/load-out, truck loading and ball dropping which were calculated by multiplying the following emission factors from Ap-42 Section 11.19.2-2 (8/04) by the maximum annual throughput of 292,500 tons, applying an 80% control efficiency and then dividing by 2000 pounds/ton

Processing Operation	PM10 Emission Factor
Load-in/load-out (3)	0.0001 lb/ton processed
Drop ball	0.05 lb/ton processed*

*Emission estimation provided by company

Therefore, provided compliance is shown with the requirement to apply best available control measures, compliance with the annual emission limitations shall be demonstrated.

- (2) Emission Limitation

Visible particulate emissions (PE) of fugitive dust from load-in/load-out, truck loading, drop ball operations and magnetic separation shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance U.S. EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

- g) Miscellaneous Requirements
 - (1) None.



6. F010, F010

Operations, Property and/or Equipment Description:

Metal Reclamation Operations

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.02 ton fugitive particulate matter of 10 microns or less in size (PM10)/year See b)(2)a. Compliance with OAC rules 3745-17-08(B) and 3745-17-07(B)
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)	Visible particulate emissions (PE) of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.
d.	OAC rule 3745-17-08(B)	Best available control measures that are sufficient enough to minimize or eliminate visible emissions of fugitive dust [See b)(2)c. through b)(2)e.]

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The "Best Available Technology (BAT)" requirements under OAC rule 3745-31-05(A)(3)(a) are not applicable to the particulate emissions (PE) emitted from this emissions unit (PE is emitted in the form of filterable PM10 emissions). BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant without an established NAAQS.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 emissions from this air contaminant source since the calculated potential to emit for PM10 is less than 10 tons/year.

c. The permittee has committed to employ the following control measures for this emissions unit in order to satisfy the requirements of this rule:

Material Handling/Processing Operation	Control Measures
Load-in at static screen	wet application, as necessary*
screening	wet application, as necessary*
transfer and conveying	Wet application, as necessary*

*If at any time the moisture content of the material processed or handled is not sufficient to meet the above applicable requirements, the permittee shall employ a wet suppression control system to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.



- d. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the material handling operations until further observation confirms that use of the control measures is unnecessary.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08(B) and 3745-31-05(A)(3).

c) Operational Restrictions

- (1) The maximum annual material throughput for this emissions unit shall not exceed 400,000 tons based on the material throughput of the static screen.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed through the primary screen of this emissions unit in (a) tons per month and (b) total tons, to date, for the calendar year.
- (2) Except as otherwise provided in this section, for material handling/processing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Material Handling/ Processing Operation	Minimum Inspection Frequency
each loading operation load-in at static screen)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen (static screen)	once per day of operation

- (3) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for each material handling/processing operation. The inspections shall be performed during representative, normal material handling/processing operating conditions.
- (4) The permittee shall maintain daily records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(4)d. shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements in term numbers d)(2), (3) and (4) above:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The above information shall be provided as an attachment to the PER. If there were no days and/or instances to identify as required above, the permittee shall indicate within the "Additional Information and Corrections" section of the PER that all inspections were performed by the required frequency, and control measures were properly implemented.

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:
0.02 ton fugitive PM10/year

Applicable Compliance Method:

The annual fugitive PM10 emission limitation was developed by combining the emissions from load-in/load-out with the emissions from material screening and conveying. The load-in/load-out emissions were calculated by multiplying the maximum material throughput of 40,000 tons by the appropriate AP-42 Section 13.2.4 (11/06) emission factor, applying a 80% control efficiency and then dividing by 2000 pounds/ton. The screening and conveying emissions were determined by multiplying the following controlled emission factors from AP-42

Section 11.19.2-2 (8/04) by the maximum annual throughput of 40,000 tons and then dividing by 2000 pounds/ton.

Material Handling/ Processing Operation	PM10 Emission Factor
static screen	0.00074 lb/ton processed
Transfer points (2)	0.000046 lb/ton processed

Therefore, provided compliance is shown with the operational restrictions of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations shall be demonstrated.

b. Emission Limitations:

Visible PE of fugitive dust from the material handling, screening and transfer shall not exceed twenty percent opacity as a three-minute average.

Applicable Compliance Method:

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance U.S. EPA Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

(1) None.

7. G001, G001

Operations, Property and/or Equipment Description:

Diesel Fuel Dispensing

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.69 ton volatile organic compounds (VOC)/year See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	OAC rule 3745-21-09(R)	See b)(2)c.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC emissions from this air contaminant source since the calculated potential to emit for VOC is less than 10 tons/year.

- c. This emissions unit is exempt from the requirements of OAC rule 3745-21-09(R) pursuant to OAC rule 3745-21-09(R)(4)(a), since the annual throughput of gasoline is less than 120,000 gallons.

c) Operational Restrictions

- (1) The annual throughput for any rolling 12-month period shall not exceed 120,000 gallons of diesel fuel.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the diesel fuel throughput. Each month's record shall be added to the record for the previous 11 months and the rolling 12-month diesel fuel throughput shall be used to demonstrate the GDF meets the operational restriction in c)(1). These records shall be retained by the permittee for a period of not less than three years and shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) If, during any month, the gasoline throughput for any rolling 12-month period is equal to or greater than 120,000 gallons, the permittee shall so notify the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs. The exceedance and the method used to attain and maintain compliance shall also be included in the Permit Evaluation Report

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:
0.17 ton VOC/yr

Applicable Compliance Method:

The annual VOC emission limitation was developed by multiplying the maximum annual fuel throughput limitation of 120,000 gallons, by the AP-42 emissions factor for splash fill, of 11.5 lbs VOC/1000 gallons [Table 5.2-7 (revised 6/08)], and multiplying by the conversion factor of 1 ton/2000 lbs. Therefore, provided compliance is shown with the annual fuel throughput restriction of this permit, compliance with the annual VOC emission limitation shall also be demonstrated.

- g) Miscellaneous Requirements

- (1) None.

8. P004, P004

Operations, Property and/or Equipment Description:

90 hp Diesel generator for main screening plant

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.26 ton particulate matter of 10 microns or less in size (PM10)/year 2.32 tons of nitrogen oxides (NOx)/year 3.24 tons of carbon monoxide (CO)/year 0.70 ton volatile organic compounds (VOC)/year 0.004 ton sulfur dioxide (SO ₂)/year See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	40 CFR Part 60, Subpart IIII 40 CFR 60.4204(b) 40 CFR 60.4201(a)	The exhaust emissions from this engine shall not exceed: 0.40 gram of particulate matter per kilowatt-hour (0.40 gram PM/kW-hr)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	Table 1 to 40 CFR 89.112, Tier 3	4.7 grams of nitrogen oxides plus non-methane hydrocarbons per kilowatt-hour (4.7 grams NOx + NMHC/kW-hr) 5.0 grams of carbon monoxide per kilowatt-hour (5.0 grams CO/kW-hr) See b)(2)c. and b)(2)d.
d.	40 CFR 60.4207(b) 40 CFR 80.510(b)	The sulfur content of the diesel fuel burned in this emissions unit shall not exceed 15 ppm per gallon of oil or 0.0015% sulfur by weight. See b)(2)e. and c)(2)
e.	40 CFR 89.113 (certified by manufacturer)	20% opacity during the acceleration mode 15% opacity during the lugging mode 50% opacity during the peaks in either the acceleration or lugging modes
f.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as specified by rule.
g.	OAC rule 3745-18-06(G)	See b)(2)f.
h.	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established for PE pursuant to 40 CFR Part 60, Subpart IIII.
i.	OAC rule 3745-110-03(F)	See b)(2)g.
j.	40 CFR 63 Subpart ZZZZ 40 CFR 63.6590(c)	The stationary CI reciprocating ICE, located at an area source for hazardous air pollutants (HAPs), shall demonstrate compliance with 40 CFR 63 Subpart ZZZZ through compliance with Part 60 Subpart IIII. See b)(2)h.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of PM₁₀, NO_x, CO, VOC and SO₂ from this air contaminant source since the calculated potential to emit for PM₁₀, NO_x, CO, VOC and SO₂ is less than 10 tons/year.

- c. The stationary compression ignition (CI), internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII, the standards of performance for stationary CI, ICE.
- d. The stationary CI, ICE has been or shall be purchased certified by the manufacturer, for the useful life of the engine(s), to emission standards as stringent as those identified in 40 CFR 60.4201(a) and found in Tier 3 of 40 CFR 89.112, Table 1, for engines greater than or equal to 50 horsepower (37 kilowatt) and less than 100 horsepower (75 kilowatt), and to the opacity standards found in 40 CFR 89.113.
- e. The quality of diesel fuel burned in this engine shall meet the following specifications on an "as received" basis:
- i. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.0015 pound sulfur dioxide/MMBtu actual heat input; and 15 ppm sulfur or 0.0015% sulfur by weight;
 - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent; and
 - iii. a heating value greater than 137,000 Btu/gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

- f. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- g. This emissions unit is exempt from the requirements of OAC rule 3745-110-03(F) pursuant to OAC rule 3745-110-03(J)(3).

manufacturer's operations manual and any written instructions or procedures developed by the permittee and approved by the manufacturer shall be maintained at the same location as the ICE.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify in the annual permit evaluation report any period of time (date and number of hours) that the quality of oil burned in this emissions unit did not meet the requirements established in 40 CFR 80.510(b), based upon the required fuel records, and the amount of non-compliant fuel burned on each such occasion.

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. Emissions Limitations:
 - 20% opacity during the acceleration mode
 - 15% opacity during the lugging mode
 - 50% opacity during the peaks in either the acceleration or lugging modes

Applicable Compliance Method:
The ICE shall be purchased certified to the opacity standards of 40 CFR 89.113.
 - b. Emissions Limitation:

Visible PE from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Reference Method 9 in 40 CFR, Part 60, Appendix A.
 - c. Emissions Limitations:
 - 0.40 gram PM/kW-hr
 - 0.26 ton PM10/year

Applicable Compliance Method:
Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's

specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 3 exhaust emission standards for diesel engines between 50 and less than 100 horsepower (37 and 75 kilowatts).

Compliance with the annual PM₁₀ emission limitation was calculated by multiplying the gram/kW-hr emission limitation of 0.40 by the maximum rated capacity of the engine (67.11 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(1)j below.

- d. Emissions Limitations:
4.7 grams NO_x + NMHC/kW-hr

2.32 tons NO_x/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 3 exhaust emission standards for diesel engines between 50 and less than 100 horsepower (37 and 75 kilowatts).

For the purpose of reporting emissions, where the limit is for NO_x + NMHC, the NO_x and VOC limits shall be calculated using a ratio of 76.0% NO_x to 24.0% VOC.*

4.7 grams NO_x+NMHC/kW-hr x 76.0% NO_x* = 3.6 grams NO_x/kW-hr

The annual NO_x emission limitation was calculated by multiplying 3.6 grams NO_x/kW-hr by the maximum rated capacity of the engine (67.11 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year, and then dividing by 2000 lbs/ton.

*This ratio is based upon the linear relationship of NO_x to NMHC from Table 1 of Subpart IIII, Table 1 from 40 CFR 89.112, to Tables 4, 5, and 6 from 40 CFR 1039.102.

- e. Emissions Limitations:
5.0 grams CO/kW-hr

3.24 tons CO/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 3 exhaust emission standards for diesel engines between 50 and less than 100 horsepower (37 and 75 kilowatts).

Compliance with the annual CO emission limitation was calculated by multiplying the gram/kW-hr emission limitation of 5.0 by the maximum rated capacity of the engine (67.11 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(1)i below.

- f. Emissions Limitations:
4.7 grams NO_x + NMHC/kW-hr

0.70tonVOC/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 1 of 40 CFR 89.112, the Tier 3 exhaust emission standards for diesel engines between 50 and less than 100 horsepower (37 and 75 kilowatts).

For the purpose of reporting emissions, where the limit is for NO_x + NMHC, the NO_x and VOC limits shall be calculated using a ratio of 76.0% NO_x to 24.0% VOC.*

$4.7 \text{ grams NO}_x + \text{NMHC/kW-hr} \times 24.0\% \text{ NMHC}^* = 1.1 \text{ gram VOC/kW-hr}$

Compliance with the annual VOC emission limitation was calculated by multiplying 1.1 gram VOC/kW-hr by the maximum rated capacity of the engine (67.11 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

*This ratio is based upon the linear relationship of NO_x to NMHC from Table 1 of Subpart IIII, Table 1 from 40 CFR 89.112, to Tables 4, 5, and 6 from 40 CFR 1039.102.

- g. Emissions Limitations:
Sulfur content 15 ppm per gallon or < 0.0015% by weight sulfur

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements for the sulfur content of each shipment of diesel oil received. If meeting the standards in 40 CFR 80.510(b), this calculates to approximately 0.0015 lb SO₂/MMBtu.

- h. Emissions Limitation:
0.004 tons SO₂/year

Compliance with the annual SO₂ emissions limitation shall be determined by the following calculation from AP-42 Table 3.4-1:

Where:

G = Gallons (maximum) of diesel fuel burned in the engine during a 12-month period.

S = Sulfur content of the fuel used. Since the sulfur content limit for the fuel is 0.0015%, use the value 0.0015 in the formula.

E = Total tons of SO₂/year emitted.

$$E = \left(G \frac{\text{Gallons}}{\text{year}} \right) \left(\frac{137,000 \text{ Btu}}{\text{Gallon}} \right) \left((1.01)(S) \frac{\text{lb SO}_2}{\text{mmBtu}} \right) \left(\frac{\text{Ton}}{2000 \text{ lbs}} \right)$$

- i. If it is determined by the Ohio EPA that a compliance demonstration is required through performance testing, it shall be conducted using one of the following test methods or procedures:
 - i. in accordance with 40 CFR 60.4212, conduct the exhaust emissions testing using the in-use testing procedures found in 40 CFR Part 1039, Subpart F, measuring the emissions of the regulated pollutants as specified in 40 CFR 1065; or
 - ii. in accordance with 40 CFR 60.4213, conduct exhaust emissions testing using the test methods identified in Table 7 to Subpart IIII of Part 60.

If demonstrating compliance through the in-use testing procedures in 40 CFR part 1039, Subpart F, exhaust emissions from the stationary CI ICE shall not exceed the “not to exceed” (NTE) numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, determined from the following equation:

$$\text{NTE requirement for each pollutant} = 1.25 \times \text{STD}$$

Where:

- (2) STD = The standard specified for the pollutant in 40 CFR 89.112.



9. P005, P005

Operations, Property and/or Equipment Description:

51 hp Diesel Generator for secondary screening plant

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a), as effective 11/30/01	0.13 ton particulate matter of 10 microns or less in size (PM10)/year 1.32 tons of nitrogen oxides (NOx)/year 1.80 tons of carbon monoxide (CO)/year 0.40 ton volatile organic compounds (VOC)/year 0.002 ton sulfur dioxide (SO ₂)/year See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.
c.	40 CFR Part 60, Subpart IIII 40 CFR 60.4204(b) 40 CFR 60.4201(a)	The exhaust emissions from this engine shall not exceed: 0.30 gram of particulate matter per kilowatt-hour (0.40 gram PM/kW-hr)

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	Table 3 to 40 CFR 1039.102	4.7 grams of nitrogen oxides plus non-methane hydrocarbons per kilowatt-hour (4.7 grams NOx + NMHC/kW-hr) 5.0 grams of carbon monoxide per kilowatt-hour (5.0 grams CO/kW-hr) See b)(2)c. and b)(2)d.
d.	40 CFR 60.4207(b) 40 CFR 80.510(b)	The sulfur content of the diesel fuel burned in this emissions unit shall not exceed 15 ppm per gallon of oil or 0.0015% sulfur by weight. See b)(2)e. and c)(2)
e.	40 CFR 1039.105 (certified by manufacturer)	20% opacity during the acceleration mode 15% opacity during the lugging mode 50% opacity during the peaks in either the acceleration or lugging modes
c.	OAC rule 3745-17-07(A)(1)	Visible PE from the stack serving this emissions unit shall not exceed 20% opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-18-06(G)	See b)(2)f.
e.	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established for PE pursuant to 40 CFR Part 60, Subpart IIII.
f.	OAC rule 3745-110-03(F)	See b)(2)g.
	40 CFR 63 Subpart ZZZZ 40 CFR 63.6590(c)	The stationary CI reciprocating ICE, located at an area source for hazardous air pollutants (HAPs), shall demonstrate compliance with 40 CFR 63 Subpart ZZZZ through compliance with Part 60 Subpart IIII. See b)(2)h.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 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 NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US 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 US EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

- b. This rule paragraph applies once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the emissions of PM₁₀, NO_x, CO, VOC and SO₂ from this air contaminant source since the calculated potential to emit for PM₁₀, NO_x, CO, VOC and SO₂ is less than 10 tons/year.

- c. The stationary compression ignition (CI), internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII, the standards of performance for stationary CI, ICE.
- d. The stationary, CI ICE has been or shall be purchased certified by the manufacturer, for its useful life*, to emission standards as stringent as those identified in 40 CFR 60.4201(a) and found in 40 CFR 1039.102 Table 3, for engines greater than or equal to 50 horsepower (37 kilowatt) and less than 75 horsepower (56 kilowatt), and to the opacity standards found in 40 CFR 1039.105.

* "useful life" defined in Miscellaneous Requirements section

- e. The quality of diesel fuel burned in this engine shall meet the following specifications on an "as received" basis:
- i. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.0015 pound sulfur dioxide/MMBtu actual heat input; and 15 ppm sulfur or 0.0015% sulfur by weight;
 - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent; and
 - iii. a heating value greater than 137,000 Btu/gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

- f. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- g. This emissions unit is exempt from the requirements of OAC rule 3745-110-03(F) pursuant to OAC rule 3745-110-03(J)(3).

identification number, and the certificate identification number. The manufacturer's operations manual and any written instructions or procedures developed by the permittee and approved by the manufacturer shall be maintained at the same location as the ICE.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify in the annual permit evaluation report any period of time (date and number of hours) that the quality of oil burned in this emissions unit did not meet the requirements established in 40 CFR 80.510(b), based upon the required fuel records, and the amount of non-compliant fuel burned on each such occasion.

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. Emissions Limitations:
 - 20% opacity during the acceleration mode
 - 15% opacity during the lugging mode
 - 50% opacity during the peaks in either the acceleration or lugging modes

Applicable Compliance Method:
The ICE shall be purchased certified to the opacity standards of 40 CFR 89.113.
 - b. Emissions Limitation:

Visible PE from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Reference Method 9 in 40 CFR, Part 60, Appendix A.
 - c. Emissions Limitations:
 - 0.30 gram PM/kW-hr
 - 0.13 ton PM10/year

Applicable Compliance Method:
Compliance with the emission limitations shall be based on the manufacturer's

certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 3 of 40 CFR 1039.102, the interim Tier 4 exhaust emission standards for 2008 to 2012 model year diesel engines between 50 and less than 75 horsepower (37 and <56 kW).

Compliance with the annual PM10 emission limitation was calculated by multiplying the gram/kW-hr emission limitation of 0.30 by the maximum rated capacity of the engine (38.03 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(1)i below.

- d. Emissions Limitations:
4.7 grams NO_x + NMHC/kW-hr

1.32 tons NO_x/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 3 of 40 CFR 1039.102, the interim Tier 4 exhaust emission standards for 2008 to 2012 model year diesel engines between 50 and less than 75 horsepower (37 and <56 kW).

For the purpose of reporting emissions, where the limit is for NO_x + NMHC, the NO_x and VOC limits shall be calculated using a ratio of 76.0% NO_x to 24.0% VOC.*

4.7 grams NO_x+NMHC/kW-hr x 76.0% NO_x* = 3.6 grams NO_x/kW-hr

The annual NO_x emission limitation was calculated by multiplying 3.6 grams NO_x/kW-hr by the maximum rated capacity of the engine (38.03 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

*This ratio is based upon the linear relationship of NO_x to NMHC from Table 1 of Subpart IIII, Table 1 from 40 CFR 89.112, to Tables 4, 5, and 6 from 40 CFR 1039.102.

- e. Emissions Limitations:
5.0 grams CO/kW-hr

1.80 tons CO/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 3 of 40 CFR 1039.102, the interim Tier 4 exhaust emission standards for 2008 to 2012 model

year diesel engines between 50 and less than 75 horsepower (37 and <56 kW).

Compliance with the annual CO emission limitation was calculated by multiplying the gram/kW-hr emission limitation of 5.0 by the maximum rated capacity of the engine (38.03 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the emission limitations through performance tests conducted in accordance with the provisions in term f)(1)i below.

- f. Emissions Limitations:
4.7 grams NO_x + NMHC/kW-hr

0.70tonVOC/year

Applicable Compliance Method:

Compliance with the emission limitations shall be based on the manufacturer's certification and by maintaining the engine according to the manufacturer's specifications. The g/kW-hr limit is the emission limitation from Table 3 of 40 CFR 1039.102, the interim Tier 4 exhaust emission standards for 2008 to 2012 model year diesel engines between 50 and less than 75 horsepower (37 and <56 kW).

For the purpose of reporting emissions, where the limit is for NO_x + NMHC, the NO_x and VOC limits shall be calculated using a ratio of 76.0% NO_x to 24.0% VOC.*

4.7 grams NO_x+NMHC/kW-hr x 24.0% NMHC* = 1.1 gram VOC/kW-hr

Compliance with the annual VOC emission limitation was calculated by multiplying 1.1 gram VOC/kW-hr by the maximum rated capacity of the engine (38.03 kW), applying a conversion factor of 0.0022 lb/gram, multiplying by 8760 hours/year and then dividing by 2000 lbs/ton.

*This ratio is based upon the linear relationship of NO_x to NMHC from Table 1 of Subpart IIII, Table 1 from 40 CFR 89.112, to Tables 4, 5, and 6 from 40 CFR 1039.102.

- g. Emissions Limitation:
Sulfur content 15 ppm per gallon or < 0.0015% by weight sulfur

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements for the sulfur content of each shipment of diesel oil received. If meeting the standards in 40 CFR 80.510(b), this calculates to approximately 0.0015 lb SO₂/MMBtu.

- h. Emissions Limitation:
0.002 tons SO₂/year

Compliance with the annual SO₂ emissions limitation shall be determined by the following calculation from AP-42 Table 3.4-1:

Where:

G = Gallons (maximum) of diesel fuel burned in the engine during a 12-month period.

S = Sulfur content of the fuel used. Since the sulfur content limit for the fuel is 0.0015%, use the value 0.0015 in the formula.

E = Total tons of SO₂/year emitted.

$$E = \left(G \frac{\text{Gallons}}{\text{year}} \right) \left(\frac{137,000 \text{ Btu}}{\text{Gallon}} \right) \left((1.01)(S) \frac{\text{lb SO}_2}{\text{mmBtu}} \right) \left(\frac{\text{Ton}}{2000 \text{ lbs}} \right)$$

- i. If it is determined by the Ohio EPA that a compliance demonstration is required through performance testing, it shall be conducted using one of the following test methods or procedures:
 - i. in accordance with 40 CFR 60.4212, conduct the exhaust emissions testing using the in-use testing procedures found in 40 CFR Part 1039, Subpart F, measuring the emissions of the regulated pollutants as specified in 40 CFR 1065; or
 - ii. in accordance with 40 CFR 60.4213, conduct exhaust emissions testing using the test methods identified in Table 7 to Subpart IIII of Part 60.

The exhaust emissions shall not exceed standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d).

g) Miscellaneous Requirements

- (1) *Useful life* means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).