



Environmental Protection Agency

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

1/13/2011

GENE KIRBY
KIRBY SAND AND GRAVEL
4876 COUNTY HIGHWAY 43
UPPER SANDUSKY, OH 43351

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

Facility ID: 0388010069
Permit Number: P0107203
Permit Type: Administrative Modification
County: Wyandot

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)

Dear Permit Holder:

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

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Kevin Boyce," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: Ohio EPA-NWDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
KIRBY SAND AND GRAVEL**

Facility ID:	0388010069
Permit Number:	P0107203
Permit Type:	Administrative Modification
Issued:	1/13/2011
Effective:	1/13/2011
Expiration:	6/17/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
KIRBY SAND AND GRAVEL

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Authorization

Facility ID: 0388010069
Application Number(s): M0001007
Permit Number: P0107203
Permit Description: Administrative modification of a Crushing Operation (Sand and Gravel) with 2 diesel IC engines
Permit Type: Administrative Modification
Permit Fee: \$450.00
Issue Date: 1/13/2011
Effective Date: 1/13/2011
Expiration Date: 6/17/2020
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

KIRBY SAND AND GRAVEL
4876 COUNTY HIGHWAY 43
Upper Sandusky, OH 43351

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

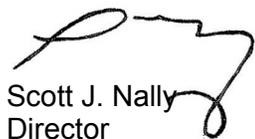
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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: P0107203
Permit Description: administrative modification of a Crushing Operation (Sand and Gravel) with 2 diesel IC engines

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

Emissions Unit ID:	P901
Company Equipment ID:	Sand and Gravel Handling
Superseded Permit Number:	P0087996
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.

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

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

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.
2. The permittee is advised that this facility may be subject to the "Generally Available Control Technology" (GACT) requirements under 40 CFR Part 63, Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The U.S. EPA is responsible for the administration of the requirements of this rule at this time.

It should be noted that the enforcement authority of the GACT requirements is not delegated to Ohio EPA at the time of this permit processing. The complete requirements of this rule (including the Part 63 General Provisions) may be accessed via the Internet from the Electronic code of Federal Regulations (e-CFR) website <http://www.ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office of local air agency.

C. Emissions Unit Terms and Conditions



1. P901, Sand and Gravel Handling

Operations, Property and/or Equipment Description:

aggregate (sand and gravel) processing plant - 650 tons per hour - primary crushing, screening, and material handling - with 2 diesel (non-mobile source) IC engines, 625 and 140 HP, electrical generation and direct-drive power

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. b)(1)j, b)(1)p, and d)(9).

(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
	Crushing, screening, material handling:	
a.	OAC rule 3745-31-05(A)(3)	2.02 tons fugitive particulate emissions (PE) per year Visible Emission Restrictions [See b)(2)f. and b)(2)g.] Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a. through b)(2)c.] See b)(2)d.
b.	OAC rule 3745-17-07(B)	See b)(2)e.
c.	OAC rule 3745-17-08(B)	See b)(2)f.
d.	40 CFR, Part 60, Subpart OOO	Visible Emission Restrictions [See b)(2)g. and b)(2)h.]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	Diesel IC engine (Caterpillar 3412) 625 HP:	
e.	OAC rule 3745-31-05(A)(3)	6.58 lbs nitrogen oxides (NO _x) /hr, 9.87 tons NO _x /yr 1.03 lb sulfur dioxide (SO ₂) /hr, 1.55 tons SO ₂ /yr 1.75 lb carbon monoxide (CO) /hr, 2.62 tons CO/yr 0.19 lb volatile organic compounds (VOC) /hr, 0.28 tons VOC /yr 0.13 lb particulate matter less than 10 microns (PM ₁₀) /hr, 0.20 ton PM ₁₀ /yr See b)(2)d.
f.	OAC rule 3745-17-11(B)(5)(b)	See b)(2)i.
g.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity as a six-minute average, except as provided by rule.
h.	OAC rule 3745-18-06(G)	See b)(2)j.
i.	40 CFR Part 60, Subpart IIII	See b)(2)k.
j.	ORC 3704.04(F) OAC rule 3745-114-01	See d)(9).
	Diesel IC engine (Cummins 6BT5.9-P) 140 HP:	
k.	OAC rule 3745-31-05(A)(3)	1.81 lbs nitrogen oxides (NO _x) /hr, 2.72 tons NO _x /yr 0.12 lb sulfur dioxide (SO ₂) /hr, 0.18 tons SO ₂ /yr 0.39 lb carbon monoxide (CO) /hr, 0.59 tons CO/yr 0.15 lb volatile organic compounds (VOC) /hr, 0.22 tons VOC /yr 0.13 lb particulate matter less than 10 microns (PM ₁₀) /hr, 0.19 ton PM ₁₀ /yr See b)(2)d.
l.	OAC rule 3745-17-11(B)(5)(a)	See b)(2)i.
m.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		as a six-minute average, except as provided by rule.
n.	OAC rule 3745-18-06(G)	See b)(2)j.
o.	40 CFR Part 60, Subpart IIII	See b)(2)k.
p.	ORC 3704.04(F) OAC rule 3745-114-01	See d)(9).

(2) Additional Terms and Conditions

- a. The permittee shall employ best available control measures for aggregate processing operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements in b)(1)a through b)(1)d. In accordance with the permittee’s permit application, the permittee has committed to perform the following control measures to ensure compliance:

<u>aggregate processing operation</u>	<u>control measures</u>
loading and unloading	reduced drop height
transfer points, crushing and screening	water sprays

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

- b. 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.
- c. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- d. The requirements of this rule also include compliance with OAC rule 3745-17-07(A), OAC rule 3745-17-11(B)(5)(a), and 40 CFR, Part 60, Subpart OOO.
- e. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)e.
- f. Kirby Sand and Gravel is not located within an “Appendix A” area as identified in OAC rule 3745-17-07(B). Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08.
- g. Visible emissions from the material processing equipment shall not exceed the following opacity restrictions:



Emissions Point (Company ID)	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
front loader to feeder	conveyor transfer point	20% as a 3-minute average	OAC rule 3745-31-05
CR1 primary crusher	crusher	15%	NSPS, Subpart 000
S1 primary screen	screen	10% *	NSPS, Subpart 000
S2 secondary screen	screen	10% *	NSPS, Subpart 000
conveyor 4A	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 5A	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 5B	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 6A	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 6B	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 7A	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 7B	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 7BB	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 7C	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 8A	conveyor transfer point	10% *	NSPS, Subpart 000
conveyor 9A	transfer point	10% *	NSPS, Subpart 000
conveyor 10A	transfer point	10% *	NSPS, Subpart 000

* except if /where feeding and exiting the crusher (in which case the limit is 15%)

- h. The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.
- i. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- j. This emissions unit is exempt from the requirements of OAC rule 3745-18-06, pursuant to OAC rule 3745-18-06(B).
- k. This emissions unit is exempt from 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion because engine manufacture /installation commenced prior to July 11, 2005.
- l. The hourly NO_x, SO₂, CO, VOC, and PM₁₀ emission limitations for the IC engines represent the potential(s) to emit for this emissions unit. Therefore, no monitoring, recordkeeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

c) Operational Restrictions

- (1) The maximum annual material (sand and gravel) throughput for this emissions unit shall not exceed 500,000 tons. This restriction is based on the material throughput of the feeder.
- (2) The permittee shall combust only diesel fuel as defined in 40 CFR 80.2(x) with less than or equal to 0.5 percent, by weight, sulfur.
- (3) The maximum annual operation of the IC engines in this emissions unit shall not exceed 3000 hours each.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount (tons per month and total tons, to date, for the calendar year) of material processed through the feeder of this emissions unit.
- (2) The permittee shall maintain monthly records of the hours (hours per month and total hours, to date, for the calendar year) of operation for each IC engine in this emissions unit.
- (3) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Aggregate Processing Operation</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

- (4) The above-mentioned inspections shall be performed during representative, normal operating conditions.
- (5) The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (6) The permittee shall maintain 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)(6)a above shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (7) For each day during which the permittee burns a fuel other than diesel fuel as specified in c)(2), the permittee shall maintain a record of the type, quantity and documentation of the sulfur content of fuel burned in this emissions unit.
- (8) The permittee shall use records of fuel supplier certification to demonstrate compliance with the operational restriction in section c)(2). Records of fuel supplier certification shall include the following information:
- a. the name of the fuel supplier; and
 - b. a statement from the fuel supplier that the fuel complies with the specifications identified c)(2) above.
- (9) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. Additionally, the toxic air contaminants from this emissions unit would not change to the results of the evaluation for compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F) as applied in permit to install and operate (PTIO) P0105879 issued on 4/15/10. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTIO prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTIO.
- e) Reporting Requirements
- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- The permittee shall identify in the annual PER the following occurrences concerning inspection and control measure requirements [e)(1)a and e)(1)b] and fuel requirements [e)(1)c and e)(1)d]:
- 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;
 - b. Each instance when a control, measure, that was to be implemented as a result of an inspection, was not implemented;
 - c. Each day when a fuel other than diesel fuel as specified in c)(2) was used in this emissions unit; and
 - d. Each instance when the fuel did not comply with the specifications identified in c)(2) above.

- (2) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
- (3) The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
- a. for a crusher:
 - i. the rated capacity in tons per hour of the existing facility being replaced, and
 - ii. the rated capacity in tons per hour of the replacement equipment.
 - b. for a screening operation:
 - i. the total surface area of the top screen of the existing screening operation being replaced and
 - ii. the total surface area of the top screen of the replacement screening operation.
 - c. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt.
 - d. for a storage bin;
 - i. the rated capacity in tons of the existing storage bin being replaced, and
 - ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the equipment replacement.

- (4) Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
- a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, OH 43216-1049

and Ohio EPA, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for all transfer points, screens and crushers of emissions unit F001.
- (2) Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.
- (3) The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.
- (4) The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates: Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
- (5) The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.
- (6) Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.
- (7) Compliance with the emissions limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
2.02 tons fugitive PE /yr

Applicable Compliance Method:

The annual PE limitation was established by summing the fugitive PE rates from the crushing, screening, transfer operations associated with this emissions unit, and then dividing by 2000 lbs/ton.

The emission rate was determined as follows:

- i. for each crusher (only 1), multiply the appropriate emission factor from AP-42 of 0.0012 lb PE /ton aggregate processed (Chapter 11.19.2 - 6/03) by the maximum annual throughput of 500,000 tons (0.30 ton);
 - ii. for each screen (2 total), multiply the appropriate emission factor from AP-42 of 0.0022 lb PE /ton aggregate processed (Chapter 11.19.2 - 6/03) by the maximum annual throughput of 500,000 tons (1.10 tons);
 - iii. for each transfer point (19 total), multiply the appropriate emission factor from AP-42 of 0.00013 lb PE /ton aggregate processed (Chapter 11.19.2 - 6/03) by the maximum annual throughput of 500,000 tons (0.62 ton).
 - iv. for front end loading into feeder, multiply the appropriate emission factor from AP-42 of 0.0000034 lb PE /ton aggregate processed (Chapter 11.19.2 - 6/03) by the maximum annual throughput of 500,000 tons (0.0009 ton).
- b. Emission Limitation:
20% opacity, as a 3-minute average for front loader dumping into feeder

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- c. Emission Limitation:
15% opacity, as a 6-minute average (crushing, including conveyor transfer points feeding and exiting crushers)

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections f(1) through f(6) above. [note: testing was conducted August 11, 2010]

- d. Emission Limitation:
10% opacity, as a 6-minute average (screening, conveyance transfer points)

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO as specified in sections f)(1) through f)(6) above. [note: testing was conducted August 11, 2010]

e. Emission Limitations:

6.58 lbs NO_x /hr (625 HP engine)

1.81 lbs NO_x /hr (140 HP engine)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for the 625 HP engine was established by multiplying a maximum fuel usage of 15 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 3.2 lb NO_x /mmBtu [AP-42 Table 3.4-1, Oct 1996].

*Potential to emit for the 140 HP engine was established by multiplying a maximum fuel usage of 3 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 4.41 lb NO_x /mmBtu [AP-42 Table 3.3-1, Oct 1996].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 7 of 40 CFR Part 60, Appendix A.

f. Emission Limitations:

1.03 lb SO₂ /hr (625 HP engine)

0.12 lbs SO₂ /hr (140 HP engine)

Applicable Compliance Method:

Compliance with the hourly emission limitation for the 625 HP engine shall be determined by multiplying a maximum fuel usage of 15 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 1.01(0.5) lb SO_x /mmBtu [AP-42 Table 3.4-1, Oct 1996].

Compliance with the hourly emission limitation for the 140 HP engine shall be determined by multiplying a maximum fuel usage of 3 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.29 lb SO_x /mmBtu [AP-42 Table 3.3-1, Oct 1996].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 6 of 40 CFR Part 60, Appendix A.

g. Emission Limitations:

1.75 lb CO /hr (625 HP engine)

0.39 lb CO /hr (140 HP engine)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for the 625 HP engine was established by multiplying a maximum fuel usage of 15 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.85 lb CO /mmBtu [AP-42 Table 3.4-1, Oct 1996].

*Potential to emit for the 140 HP engine was established by multiplying a maximum fuel usage of 3 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.95 lb CO /mmBtu [AP-42 Table 3.3-1, Oct 1996].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 10 of 40 CFR Part 60, Appendix A.

- h. Emission Limitations:
0.19 lb VOC /hr (625 HP engine)
0.15 lb VOC /hr (140 HP engine)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for the 625 HP engine was established by multiplying a maximum fuel usage of 15 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.09 lb TOC /mmBtu [AP-42 Table 3.4-1, Oct 1996].

*Potential to emit for the 140 HP engine was established by multiplying a maximum fuel usage of 3 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.36 lb TOC /mmBtu [AP-42 Table 3.3-1, Oct 1996].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 18, 25 or 25A of 40 CFR Part 60, Appendix A.

- i. Emission Limitations:
0.13 lb PM₁₀ /hr (625 HP engine)
0.13 lb PM₁₀ /hr (140 HP engine)

Applicable Compliance Method:

The hourly emission limitation represents the potential to emit* for this emissions unit. Therefore, no hourly record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

*Potential to emit for the 625 HP engine was established by multiplying a maximum fuel usage of 15 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat

content of 0.0193 mmBtu /lb, and an emission factor of 0.062 lb PM₁₀ /mmBtu [AP-42 Table 3.4-2, Oct 1996].

*Potential to emit for the 140 HP engine was established by multiplying a maximum fuel usage of 3 gal/hr, fuel density of 7.1 lb/gal (diesel), fuel heat content of 0.0193 mmBtu /lb, and an emission factor of 0.31 lb PM₁₀ /mmBtu [AP-42 Table 3.3-1, Oct 1996].

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 201/201A and 202, of 40 CFR, Part 51, Appendix M.

- j. Emission Limitations: (625 HP engine):
9.87 tons NO_x /yr
1.55 tons SO₂ /yr
2.62 tons CO /yr
0.28 tons VOC /yr
0.20 tons PM₁₀ /yr

Applicable Compliance Method:

The annual emission limitations were established by multiplying the hourly emission limitation by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

- k. Emission Limitations: (140 HP engine):
2.72 tons NO_x /yr
0.18 tons SO₂ /yr
0.59 tons CO /yr
0.22 tons VOC /yr
0.19 tons PM₁₀ /yr

Applicable Compliance Method:

The annual emission limitations were established by multiplying the hourly emission limitation by a maximum operating schedule of 3000 hours per year and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

- l. Emission Limitations:
Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with OAC rule 3745-17-03(B)(1)

g) Miscellaneous Requirements

- (1) This permit supersedes Permit to Install /Operate (PTIO) P0087996 issued June 17, 2010 (which superseded PTI 03-16172 issued September 23, 2004).