



State of Ohio Environmental Protection Agency

Street Address:

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

**RE: FINAL PERMIT TO INSTALL  
CUYAHOGA COUNTY  
Application No: 13-03987**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
Y	SYNTHETIC MINOR
	CEMS
	MACT
Subpart 000	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 3/13/2003**

Hydraulic Press Brick  
William Wolfe  
8900 Hemlock Road  
Cleveland, OH 44131

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

CBAPC



**Permit To Install  
Terms and Conditions**

**Issue Date: 3/13/2003  
Effective Date: 3/13/2003**

**FINAL PERMIT TO INSTALL 13-03987**

Application Number: 13-03987  
APS Premise Number: 1318270383  
Permit Fee: **\$700**  
Name of Facility: Hydraulic Press Brick  
Person to Contact: William Wolfe  
Address: 8900 Hemlock Road  
Cleveland, OH 44131

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**8900 Hemlock Road  
Cleveland, Ohio**

Description of proposed emissions unit(s):  
**New shale crushing and screening system to replace existing system.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit To Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

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

## **4. Title IV Provisions**

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

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

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

## **7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

## **8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## **9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

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

## 10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is

granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

**11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**12. Air Pollution Nuisance**

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

**B. State Only Enforceable Permit To Install General Terms and Conditions**

**1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

**2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**3. Permit Transfers**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**4. Termination of Permit To Install**

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

## **6. Public Disclosure**

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

## **7. Applicability**

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

## **8. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

## **9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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

**C. Permit To Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	11.53
PE (fugitive)	10.12
PM10	6.96
NOx	13.20
CO	3.98
SO2	1.37

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None.

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P012 - Shale crushing, conveying and screening system consisting of:		
Belt Conveying Activity	OAC rule 3745 - 31-05(A)(3)	0.60 lb PE/hr; 0.38 tpy PE 0.29 lb PM10/hr; 0.18 tpy PM10
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.e)
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
	40 CFR Part 60, Subpart OOO	Visible particulate emissions of fugitive dust shall not exceed 10% opacity, as a 3-minute average. (See section A.I.2.a.).
	OAC rule 3745-17-07(B)(1)	The visible fugitive emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.
	OAC rule 3745-17-08(B)	The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).

Front Loading to Grizzly  
Feeder Activity

OAC rule 3745 - 31-05(A)(3)

0.0050 lb PE/hr; 0.023 tpy PE  
0.0024 lb PM10/hr; 0.011 tpy PM10

best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.e)

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO, and OAC rule 3745-17-07(B)(1).

40 CFR Part 60, Subpart OOO

No Emission Limit

OAC rule 3745-17-07(B)(1)

Visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average. (See section A.I.2.a.).

OAC rule 3745-17-08(B)

The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).

Grizzly Feeder Activity

OAC rule 3745 - 31-05(A)(3)

5.67 lb PE/hr; 2.33 tpy PE  
2.7 lb PM10/hr; 1.11 tpy PM10

best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.e)

40 CFR Part 60, Subpart OOO

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

OAC rule 3745-17-07(B)(1)

Visible particulate emissions of fugitive dust shall not exceed 15% opacity, as a 3-minute average. (See section A.I.2.a.).

OAC rule 3745-17-08(B)

The visible fugitive emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

500-tons per hour Jaw  
Crushing Activity

OAC rule 3745 - 31-05(A)(3)

The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).

0.76 lb PE/hr; 0.38 tpy PE  
0.36 lb PM10/hr; 0.18 tpy PM10

best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.e)

40 CFR Part 60, Subpart OOO

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

OAC rule 3745-17-07(B)(1)

Visible particulate emissions of fugitive dust shall not exceed 15% opacity, as a 3-minute average. (See section A.I.2.a.).

OAC rule 3745-17-08(B)

The visible fugitive emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

6' x 20' Screening Activity  
(controlled by a baghouse)

OAC rule 3745 - 31-05(A)(3)

The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).

4.02 tpy PE (stack)  
1.93 tpy PM10 (stack)

10.12 tpy PM (fugitive)  
4.82 tpy PM10 (fugitive)

best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.f)

	40 CFR Part 60, Subpart OOO	<p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.</p> <p>Visible particulate emissions from the stack serving this baghouse shall not exceed 7% opacity, as a 6-minute average.</p> <p>Visible particulate emissions of fugitive dust shall not exceed 10% opacity, as a 3-minute average. (See section A.I.2.a.).</p>
	OAC rule 3745-17-07(B)(1)	<p>Particulate emissions from the baghouse stack serving this emissions unit shall not exceed 0.05 grams per dry standard cubic meter (g/dscm) - this converts to 0.022 grains per dry standard cubic feet (gr/dscf).</p>
	OAC rule 3745-17-08(B)	<p>The visible fugitive emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.</p>
	OAC rule 3745-17-07(A)(1)	<p>The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(A)(2)	<p>The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.</p>
200-ton per hour gyratory crushing Activity	OAC rule 3745 - 31-05(A)(3)	<p>The particulate emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.</p> <p>1.01 lb PE/hr; 0.67 tpy PE 0.48 lb PM10/hr; 0.32 tpy PM10</p>

546 HP diesel engine  
generator, fired by No.2 oil  
fuel

	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.c through A.I.2.e)
40 CFR Part 60, Subpart OOO	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed 15% opacity, as a 3-minute average. (See section A.I.2.a.).
OAC rule 3745-17-08(B)	The visible fugitive emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.
OAC rule 3745-31-05(A)(3)	The requirements specified by this rule are equivalent to the requirements established pursuant to OAC rule 3745-31-05(A)(3).  1.65 TPY of particulate emissions 9.82 lbs/hr of NOx emissions and 13.20 TPY 2.96 lbs/hr of CO emissions and 3.98 TPY 1.02 lbs/hr of SO2 emissions and 1.37 TPY
OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-17-11(B)(5)(b) and OAC rule 3745-31-05(D)
OAC rule 3745-17-11(B)(5)(b)	Visible particulate emissions from the diesel generator exhaust stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
OAC rule 3745-31-05(D)	

	0.35 lb/mmBtu of particulate emissions
	13.20 TPY of NO <sub>x</sub> emissions as a rolling, 12-month summation
	3.98 TPY of CO emissions as a rolling, 12-month summation
	1.37 TPY of SO <sub>2</sub> emissions as a rolling, 12-month summation
	1.65 TPY of particulate emissions as a rolling, 12-month summation

## 2. Additional Terms and Conditions

- 2.a** For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from this emissions unit. These egress points shall include, but not be limited to: transfer points, enclosures, doors and hatches, and venting equipment.
- 2.b** The crushing, screening, and material handling operations that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:  
conveyor belts  
front end loader to grizzly feeder  
grizzly feeder  
500-ton per hour jaw crusher  
6' x 20' screen  
200-ton per hour gyratory crusher
- 2.c** The permittee shall employ best available control measures for the above-identified material handling operations 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 apply sufficient water or chemical dust suppressant at the unloading station to control dust emissions from all subsequent conveyors and transfer points to ensure compliance.
- Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** For each material handling operation that is not adequately enclosed, the above-identified control measure 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 measure is necessary to ensure compliance with the above-mentioned applicable

requirements. Any required implementation of the control measure shall continue during the operation of the material handling operations until further observation confirms that use of the control measure is unnecessary.

- 2.e Implementation of the above-mentioned control measure in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.
- 2.f The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

## II. Operational Restrictions

1. The emission units described in Part III, Section A.I.1 are restricted to a maximum production rate of 491,904 tons per rolling, 12-month period. To ensure enforceability during the first 12 calendar months of operation, the permittee shall not exceed the production levels specified in the following table:

<u>Month</u>	<u>Maximum Allowable Cumulative Production</u>
1	122,980
1-2	156,520
1-3	190,060
1-4	223,600
1-5	257,140
1-6	290,680
1-7	324,220
1-8	357,760
1-9	391,300
1-10	424,840
1-11	458,380
1-12	491,904

After the first 12 calendar months of operation, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

2. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 4.0 inches of water while the emissions unit is in operation.
3. The permittee shall burn only No.2 fuel oil in the diesel generator.

4. The maximum annual operating hours for the diesel generator shall not exceed 2,688 hrs, based upon a rolling, 12-month summation of the operating hours.
5. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operational hours</u>
1	224
1-2	448
1-3	672
1-4	896
1-5	1120
1-6	1344
1-7	1568
1-8	1792
1-9	2016
1-10	2240
1-11	2464
1-12	2688

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual hours limitation for the diesel generator while burning No.2 fuel oil shall be based upon a rolling, 12-month summation of the operating hours.

### III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for each of the operations listed under the emissions unit described in Section A.I.1:
  - a. the monthly material feed rate, in tons;
  - b. the total rolling, 12-month material feed rate, in tons.
  - c. the total monthly production rate for the emissions unit, in tons; and
  - d. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the total production rate for the emissions unit.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative production rate for each calendar month.

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the baghouse stack serving the 6' x 20' screening activity. The presence or absence of any visible emissions from the baghouse stack shall be noted in an operations log. If visible emissions from the baghouse stack are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.
  
4. 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:

crushing, screening, and material handling operations	minimum inspection frequency
conveyor belts	daily, when in operation
front end loader to grizzly feeder	daily, when in operation
grizzly feeder	daily, when in operation
500-ton per hour jaw crusher	daily, when in operation
6' x 20' screen	daily, when in operation
200-ton per hour gyratory crusher	daily, when in operation
  
5. The above-mentioned inspections shall be performed during representative, normal operating conditions.
  
6. 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.
  
7. 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;
  - c. the dates the control measure was implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure was implemented.

The information in 4.d. 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.

8. For each day during which the permittee burns a fuel other than No.2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in the diesel generator.
9. The permittee shall maintain monthly records of the following information for the diesel generator:
  - a. the operating hours for each month.
  - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack serving the 6' x 20' screening activity and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following occurrences:
  - 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 deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

4. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No.2 fuel oil was burned in the diesel generator. Each report shall be submitted within 30 days after the deviation occurs.

5. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation for the diesel generator and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
6. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative production rate levels.

## V. Testing Requirements

1. belt conveying activity

### Emission Limitation

0.60 lb PE/hr

0.29 lb PM10/hr

### Applicable Compliance Method

Compliance with the hourly emission limitations shall be determined by using the following formula utilizing the maximum design feed rate of the process equipment:

$$\text{lbs PM10/hr} = (0.000048 \text{ lbs PM10/ton of feed material}^*) \times (400 \text{ tons / hr})$$

$$\text{lbs PE/hr} = (\text{lbs PM10/hr}) \times (2.1)$$

\*This uncontrolled emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11, Table 11.19.2-2.

### Emission Limitation

0.38 tpy PE

0.18 tpy PM10

### Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.000048 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr], and multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

2. fugitive visible emissions for belt conveying activity

### Emission Limitation

10% opacity, as a 3-minute average

### Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1-hour (ten 6-minute averages), only if the conditions specified in 40 CFR 60.675(c)(3)(i) and (c)(3)(ii) apply.

3. front loading to grizzly feeder activity

Emission Limitation  
0.0050 lb PE/hr  
0.0024 lb PM10/hr

Applicable Compliance Method

Compliance with the hourly emission limitations shall be determined by using the following formula utilizing the maximum design feed rate of the process equipment and a water spray control efficiency of 70%:

$$\begin{aligned} \text{lbs PM10/hr} &= (0.000016 \text{ lbs PM10/ton of feed material*}) \times (500 \text{ tons /hr}) \times (1 - 0.70) \\ \text{lbs PE/hr} &= (\text{lbs PM10/hr}) \times (2.1) \end{aligned}$$

\*This uncontrolled emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11, Table 11.19.2-2.

Emission Limitation  
0.0025 tpy PE  
0.0012 tpy PM10

Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.000016 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiply by the control efficiency (1 - 0.7), and then multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

4. fugitive emissions for front end loading to grizzly feeder activity

Emission Limitation  
20% opacity, as a 3-minute average

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

5. grizzly feeder activity

Emission Limitation  
5.67 lb PE/hr  
2.70 lb PM10/hr

Applicable Compliance Method

Compliance with the hourly emission limitations shall be determined by using the following formula utilizing the maximum design feed rate of the process equipment and a water spray control efficiency of 70%:

lbs PM10/hr = (0.015 lbs PM10/ton of feed material\*) X (500 tons /hr) X (1 - 0.70)  
lbs PE/hr = (lbs PM10/hr) X (2.1)

\*This uncontrolled emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11, Table 11.19.2-2.

Emission Limitation  
2.33 tpy PE  
1.11 tpy PM10

Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.015 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiply by the control efficiency (1 - 0.7), and then multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

6. fugitive emissions from the grizzly feeder activity

Emission Limitation  
15% opacity, as a 3-minute average

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

7. 500-tons per hour jaw crushing activity

Emission Limitations  
0.76 lb PE/hr  
0.36 lb PM10/hr

Applicable Compliance Method

Compliance with the hourly emission limitations shall be determined by using the following formula utilizing the maximum design feed rate of the process equipment and a water spray control efficiency of 70%:

$$\begin{aligned} \text{lbs PM10/hr} &= (0.0024 \text{ lbs PM10/ton of feed material*}) \times (500 \text{ tons /hr}) \times (1 - 0.70) \\ \text{lbs PE/hr} &= (\text{lbs PM10/hr}) \times (2.1) \end{aligned}$$

\*This uncontrolled emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11, Table 11.19.2-2.

Emission Limitations

0.38 tpy PE  
0.18 tpy PM10

Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.0024 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiply by the control efficiency (1 - 0.7), and multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

8. fugitive emissions for 500-tons per hour jaw crushing activity

Emission Limitation

15% opacity, as a 3-minute average

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03. The duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1-hour (ten 6-minute averages), only if the conditions specified in 40 CFR 60.675(c)(4)(i) and (c)(4)(ii) apply.

9. 6' x 20' screening activity

Emission limitations

4.02 tpy PE (stack)  
1.93 tpy PM10 (stack)

Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.0024 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiply by the capture efficiency (0.8) and multiply by the

control efficiency (1 - 0.9), and multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

#### Emission Limitations

- 10.12 tpy PM (fugitive)
- 4.82 tpy PM10 (fugitive)

#### Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.0024 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiply by the capture efficiency (1 - 0.8), and multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

#### Emission Limitation

0.05 g/dscm (0.022 gr/dscf)

#### Applicable Compliance Method

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 3 months of the installation date.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates and all of the visible particulate opacity limits as noted in Section A.V.
- c. The following test methods shall be employed to demonstrate compliance with the allowable limits: Methods 1-5 of 40 CFR Part 60, Appendix A for the mass emission rate; and Method 9 of 40 CFR Part 60, Appendix A for the visible emission limitations as noted in Section A.V.

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

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (Cleveland DAQ).

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit

such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).

Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

10. stack visible emissions from the 6' x 20' screening activity

Emission Limitation

7% opacity, as a 6-minute average

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

11. fugitive emission from the 6' x 20' screening activity

Emission Limitation

10% opacity, as a 3-minute average

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

12. 200-tons per hour gyratory crushing activity

Emission Limitation

1.01 lb PM/hr

0.48 lb PM10/hr

Applicable Compliance Method

Compliance with the hourly emission limitations shall be determined by using the following formula utilizing the maximum design feed rate of the process equipment:

$\text{lbs PM}_{10}/\text{hr} = (0.0024 \text{ lbs PM}_{10}/\text{ton of feed material}^*) \times (200 \text{ tons /hr})$

$\text{lbs PE/hr} = (\text{lbs PM}_{10}/\text{hr}) \times (2.1)$

\*This uncontrolled emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 11, Table 11.19.2-2.

Emission Limitations

0.67 tpy PE  
0.32 tpy PM10

Applicable Compliance Method

The TPY emission rate shall be determined by multiplying the appropriate emission factor [0.0024 lb PM10/ton processed] by the actual annual material feed rate obtained from Section A.III.1.b [tons processed/yr] and multiplying by the appropriate conversion factor [1ton/2000 lbs]. The particulate emissions shall be determined by multiplying the determined total PM10 emissions per year [tpyPM10] by the appropriate scaled-up factor [2.1].

13. visible fugitive particulate emission from the 200-tons per hour gyratory crushing activity

Emission Limitation

15% opacity, as a 3-minute average

Applicable Compliance Method

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

14. diesel generator emissions

Emission Limitation

0.35 lb/mmBtu of particulate emissions from the 546 HP diesel generator

Applicable Compliance Method

Compliance with the lb/mmBtu of particulate emission limitation will be determined by multiplying the emission factor from the Caterpillar manufacture (0.22 gram/hp-hr), the factor of (0.0022 lb/gram) and the maximum output of the generator (546 hp). This calculated lb/hr emission rate is divided by the maximum fuel input rate of the diesel generator (3.52 mmBtu/hr) to obtain the particulate emission rate in lb/mmBtu.

Emission Limitation

1.65 TPY of particulate emissions as a rolling, 12 month summation from the 546 HP diesel generator

Applicable Compliance Method

Compliance with the above limitation shall be based on the operational hours recordkeeping requirement in Section A.III. of this permit. In addition, compliance shall also be based upon multiplying the lb/hr particulate emission rate calculated in section A.V. by the operational hours of the diesel generator. Divide the result by 2000 lbs/ton to convert to tons per year.

Emission Limitation

9.82 lbs/hr of NOx emissions from the 546 HP diesel generator

Applicable Compliance Method

Compliance with the lb/hr NOx emission limitation will be determined by multiplying the emission factor from the Caterpillar manufacture (8.16 grams/hp-hr), the factor of (0.0022 lb/gram) and the maximum output of the diesel generator (546 hp).

Emission Limitation

13.20 TPY of NOx emissions as a rolling, 12 month summation from the 546 HP diesel generator

Applicable Compliance Method

Compliance with the above limitation shall be based on the operational hours recordkeeping requirement in Section A.III. of this permit. In addition, compliance shall also be based upon multiplying the lb/hr SO2 emission rate calculated in section A.V. by the operational hours of the diesel generator. Divide the result by 2000 lbs/ton to convert to tons per year.

Emission Limitation

2.96 lbs/hr of CO emissions from the 546 HP diesel generator

**Applicable Compliance Method**

Compliance with the lb/hr CO emission limitation will be determined by multiplying the emission factor from the Caterpillar manufacture (2.46 grams/hp-hr), the factor of ( 0.0022 lb/gram) and the maximum output of the diesel generator (546 hp).

**Emission Limitation**

3.98 TPY of CO emissions as a rolling, 12 month summation from the 546 HP diesel generator

**Applicable Compliance Method**

Compliance with the above limitation shall be based on the operational hours recordkeeping requirement in Section A.III. of this permit. In addition, compliance shall also be based upon multiplying the lb/hr CO emission rate calculated in section A.V. by the operational hours of the diesel generator. Divide the result by 2000 lbs/ton to convert to tons per year.

**Emission Limitation**

1.02 lbs/hr of SO2 emissions from the 546 HP diesel generator

**Applicable Compliance Method**

Compliance with the hourly SO2 emission limitation will be determined by multiplying the emission factor taken from the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 (0.29 lb/mmBtu), the heat content, density of diesel fuel (19,300 Btu/lb and 7.1 lb/gal) and the maximum diesel fuel usage of the diesel (25.7 gals/hr).

**Emission Limitation**

1.37 TPY of SO2 emissions as a rolling, 12 month summation from the 546 HP diesel generator

**Applicable Compliance Method**

Compliance with the above limitation shall be based on the operational hours recordkeeping requirement in Section A.III. of this permit. In addition, compliance shall also be based upon multiplying the lb/hr SO2 emission rate calculated in section A.V. by the operational hours of the diesel generator. Divide the result by 2000 lbs/ton to convert to tons per year.

**Emission Limitation-**

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

**Applicable Compliance Method-**

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Test Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None.

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P012 - Shale crushing, conveying and screening system consisting of:	None	None
Belt Conveying Activity		
Front Loading to Grizzly Feeder Activity		
Grizzly Feeder Activity		
500-tons per hour Jaw Crushing Activity		
6' x 20' Screening Activity		
200-ton per hour Gyrarory Crushing Activity		

2. **Additional Terms and Conditions**

- 2.a None.

**II. Operational Restrictions**

None.

**III. Monitoring and/or Recordkeeping Requirements**

None.

**IV. Reporting Requirements**

None.

**V. Testing Requirements**

None.

**VI. Miscellaneous Requirements**

None.