Facility ID: 0332960022 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0332960022 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

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

   (a) None.

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

   (a) None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P001 - Portable 600 HP diesel-fired secondary crusher engine, serial# 3412EDITA (Asset #5827)	OAC rule 3745-31-05(A)(3) (PTI #03-16327 issued 08/16/05)	14.75 lbs of nitrogen oxides (NOx)/hour
		1.66 lbs of carbon monoxide (CO)/hour, 1.51 tons of CO/year
		1.24 lbs of sulfur dioxide (SO2)/hour, 1.17 tons of SO2/year
		1.19 tons of particulate emissions (PE)/year
		Visible PE shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown.
		See A.2.a
		See B.1.
	OAC rule 3745-31-05(C)	13.39 tons of NOx per rolling, 12-month period (See A.2.b)
	OAC rule 3745-17-07(A)	See A.2.c
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb of PE/mmBtu
	OAC rule 3745-18-06(G)	See A.2.d
	OAC rule 3745-23-06(B)	See A.2.f
	OAC rule 3745-21-08(B)	See A.2.e
	OAC rule 3745-21-07(B)	See A.2.e

2. **Additional Terms and Conditions**

   (a) The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C) and OAC rule 3745-17-11(B)(5)(a).
   The emissions of NOx from this emissions unit shall not exceed 13.39 tons per rolling 12-month period based on an annual fuel usage restriction (see section B.2) .

   The 13.39 tons of NOx per year is a federally enforceable limitation established for purposes of limiting potential to emit to avoid possible future Title V or Prevention of Significant Deterioration (PSD) applicability associated with relocation of a portable source.
   The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
   This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
   The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was received was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 14, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. **Operational Restrictions**

1. The permittee shall combust only distillate fuel oil in this emissions unit.

   The oil combusted in this emissions unit shall only be distillate oil (fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils"). The sulfur content of the distillate oil shall contain no more than 0.5 weight percent sulfur.

2. The maximum annual fuel usage for emissions unit P001 shall not exceed 55,000 gallons per year, based on a rolling, 12-month summation of the fuel usage. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the levels specified in the following table:

   Month(s) Maximum Allowable Fuel Usage (gallons)
   1 5000
   1-2 10000
   1-3 15000
   1-4 20000
   1-5 25000
   1-6 30000
   1-7 34500
   1-8 39000
   1-9 43500
   1-10 48000
   1-11 51500
   1-12 55000

   After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual fuel usage limitation shall be based upon a rolling 12-month summation of fuel usage.

C. **Monitoring and/or Record Keeping Requirements**

1. For each day during which the permittee burns a fuel other than distillate oil the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall use records of fuel supplier certification to demonstrate compliance with the operational restriction in section B.1. Records of fuel supplier certification shall include the following information:

   a. the name of the oil supplier; and

   b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in B.1 above.

3. The permittee shall maintain monthly records of the following information for this emissions unit:

   a. fuel usage each month, in gallons;

   b. during the first 12 calendar months of operation, the cumulative fuel usage, in gallons;

   c. beginning the first month after the first 12 calendar months of operation, the rolling, 12-month summation of the fuel usage, in gallons;

   d. the calculated monthly emissions rate for NOx using the following equation:

   NOx emissions in tons = (fuel usage) x (emission factor from CAT emission Certification/Testing, "Not to Exceed" data) x (1 ton/2000 lbs) = (C.3.a) x (0.4868 lb NOx/gal) x (1 ton/2000 lbs)

   e. beginning the first month after the 12 calendar months of operation, the rolling, 12-month summation of the emission rate for NOx, in tons.

D. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following exceedances:

   a. the rolling, 12-month gallon fuel usage limitation;

   b. the rolling, 12-month NOx emissions;

   c. for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative gallons of fuel; and

   d. sulfur content fuel restriction described in condition B.1.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than distillate oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. **Testing Requirements**

1. Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:
Emission Limitation:
14.75 lbs of NOx/hour and 13.39 tons of NOx per rolling, 12-month period

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.4868 lbs NOx/gal fuel oil derived from CAT emission Certification/Testing "Not to Exceed" data, and a maximum hourly fuel usage of 30.3 gallons. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

Compliance with the rolling 12-month NOx limitation shall be demonstrated by the record keeping requirements in section C.3.
Emission Limitation:
1.66 lbs of CO/hour and 1.51 tons of CO/year

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.0548 lb CO/gal fuel oil derived from CAT emission Certification/Testing "Not to Exceed" data, and a maximum hourly fuel usage of 30.3 gallons. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission factor of 0.0548 lb CO/gal fuel oil by a maximum annual gallon usage of 55,000 gallons and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the 55,000 gallons of fuel usage per rolling 12-month period operational restriction, compliance with the annual limitation will be assumed.
Emission Limitation:
1.24 lbs of SO2/hour and 1.17 tons of SO2/year

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying an emission factor of 0.29 lb SO2/mmBtu derived from AP-42, Table 3.3-1 (revised 10/96) and a maximum heat input of 4.27 mmBtu/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 0.29 lb SO2/mmBtu, a heat content of 0.140 mmBtu/gal, a maximum annual gallon usage of 55,000 gallons and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the 55,000 gallons of fuel usage per rolling 12-month period operational restriction, compliance with the annual limitation will be assumed.
Emission Limitation:
0.310 lb of PE/mmBtu, 1.19 tons of PE/year

Applicable Compliance Method:
The lbs of PE/mmBtu 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 was determined using AP-42, Chapter 3.3, Table 3.3-1 (revised 10/96).

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was established by multiplying the emission limitation of 0.310 lb of PE/mmBtu, a heat content of 0.140 mmBtu/gal, a maximum annual gallon usage of 55,000 gallons and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the 55,000 gallons of fuel usage per rolling 12-month period operational restriction, compliance with the annual limitation will be assumed.
Emission Limitation:
Visible PE shall not exceed 10% opacity as a 6-minute average, except during start-up and shutdown.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance in accordance with Method 9 of 40 CFR Part 60, Appendix A.

F. **Miscellaneous Requirements**

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI provided the following criteria are met:

a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

b. the portable emissions unit is operation pursuant to a currently effective permit to install, permit to operate or registration;

c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Northwest District Office (NWDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and,

d. in the NWDO's and appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:

   a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

   b. the portable emissions unit is equipped with the best available technology;

   c. the portable emissions unit owner has identified the proposed site to Ohio EPA;

   d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

   e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

   f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and,

   g. the portable emissions unit owner has provided the Ohio EPA with fifteen day written notice of the relocation.

   Any site approvals issued by the Ohio EPA, pursuant to section F.1 above, shall be valid no longer than three years and are subject to renewal.

3. In order for the NWDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate" within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the NWDO (347 North Dunbridge Road, Bowling Green, OH 43402) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the NWDO and/or the appropriate field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

4. The permittee should be advised that when portable emissions units are located at a stationary source or at a source comprised of portable emissions units, potential emissions from the portable emission units are included in the facility potential to emit calculations for Title V applicability.

   The permitted shall include a potential to emit analysis of facility-wide emissions (including the portable source) for the proposed relocation in the "Notice of Intent to Relocate".

5. The following terms and conditions are federally enforceable: A.1, A.2.b, B.2, C.3, D.1, and E.1.a.