Facility ID: 0660950028 Issuance type: Draft 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: 0660950028 Emissions Unit ID: P901 Issuance type: Draft 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
600 TPH Portable Sand and Gravel, Crushed Stone, RAP, soils and mine spoils Screen Plant with attached 70 HP Deutz diesel fired generator	OAC rule 3745-31-05(A)(3) (PTI # 06-08184; issued 12/12/06)	3.74 tons/year of fugitive particulate emissions (PE) Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See Sections A.2.c through A.2.e) The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(7)(b). Visible emissions of fugitive dust discharging from the screener, transfer points or conveyors shall not exceed 10% opacity.
	OAC rule 3745-17-07(B) (applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The requirements specified in this rule is less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rules 3745-17-08(B) (applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The requirements specified in this rule is less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR 60 Subpart OOO (applicable when co-located at an affected facility as defined in 40 CFR Part 60.670)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
70 HP Duetz Generator	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed: 0.2 pounds per hour (lbs/hr) of sulfur dioxide (SO2); 2.2 lbs/hr of nitrogen oxides (NOx); 0.2 lb/hr of volatile organic compounds (VOC); and, 0.5 lbs/hr of carbon monoxide (CO). The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C), 3745-17-11(B)(5)(a) and 3745-17-07(A).
	OAC rule 3745-31-05(C) (Synthetic minor to avoid Title V	Emissions shall not exceed the following, as a rolling, 12-month summation:

applicability when co-locating with similar sources.)	0.7 tons SO2 7.2 tons NOx 0.7 ton VOC 1.7 tons CO, and; 0.46 tons particulate emissions (PE). See Section B.2 below.
OAC rule 3745-17-11(B)(5)(a)	Emissions shall not exceed 0.310 lb PE/million Btu of actual heat input.
OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.
OAC rule 3745-18-06(G)	Exempt. See Section A.2.a below.
OAC rule 3745-21-08(B)	See Section A.2.b below.

2. **Additional Terms and Conditions**

(a) This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) 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 3745-21-08(B).

On November 5, 2002, OAC rule 3745-21-08 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 material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

load-in to screen
screen
conveyors/stackers
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 perform watering of all the above-mentioned material handling operations if the inherent moisture content of the aggregate material is insufficient to ensure compliance with the above-mentioned applicable requirements. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
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 measure(s) is unnecessary.
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.

B. **Operational Restrictions**

1. The permittee shall only burn low sulfur No. 2 or diesel fuel, containing less than 0.5% sulfur by weight, in this emissions unit.

2. The permittee has requested a limitation on operating hours for purposes of limiting potential to emit to avoid Title V requirements associated with relocation of a portable source with other similar sources. Therefore, the maximum number of operating hours for emissions unit P901 shall not exceed 6,480 hours, based upon a rolling 12-month summation of the operating hours.

3. The restriction on the hours of operation of the generator attached to the 600 TPH screener reduces the maximum annual production of the aggregate processing plant to 3,888,000 tons per year.

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

1. 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:

material handling operation(s) minimum inspection frequency

All Daily

The above-mentioned inspections shall be performed during representative, normal operating conditions.

2. For materials handling operations 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 measures;

c. the dates the control measures were implemented; and,

d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in 2.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.

3. For each day during which the permittee burns a fuel other than low sulfur No. 2 or diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

4. The permittee shall maintain monthly records of the following information:

a. the operating hours for each month; and,

b. the rolling, 12-month summation of the operating hours.

D. **Reporting Requirements**

1. For material handling operations the permittee shall submit deviation reports that identify any of 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.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than low sulfur No. 2 or diesel fuel was burned in this emission unit. Each report shall be submitted within 30 days after the deviation occurs.

3. The permittee shall submit quarterly devaition (exceedance) reports which identify all exceedances of the rolling, 12-month limitation of the operating hours.

4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:
3.74 tons/year PE

Applicable Compliance Method:
Compliance with the annual emission limitation shall be demonstrated by the following calculations based on the emission factors in AP-42 sections 13.2.4 (1/95) and 11.19.2 (8/04); emission factors in AP-42 section 13.2.4 (01/95); and the maximum annual throughput of TPY.

Transfer Points and Screen

PE = [[(# transfer points)(transfer points EF)(Max Annual Total)] + [(Screening EF)(Max Annual Tons)]]/2000 lbs/ton

PE = [[(4)(0.003 lbs/ton)(3,888,000 TPY)] + [(0.025 lbs/tons)(3,888,000 TPY)]/ 2000lbs/ton
= [46,656 lbs]+[97,200 lbs]/2000lbs/ton
= 71.9 TPY uncontrolled PE

Assume 95% control for watering (engineering estimate of permittee)
(71.9 TPY) (0.05) = 3.60 TPY controlled PE

Load-In to Screen

EF = k (0.0032) [(U/5)1.3/ (M/2)1.4)]

Where:
EF = emission factor expressed in pounds per ton (lbs/ton)
k = particle size multiplier for TSP (dimensionless) = 0.74
U = mean wind speed expressed in miles per hour (MPH) = 9.1
M= material moisture content (%) = 5.0

Therefore, EF = .0014 lbs/ton

maximum annual load-in throughput = 3,888,000TPY

PE = [(0.0014 lb/ton)(3,888,000 TPY)]/2000lbs/ton
= 2.72TPY uncontrolled PE

Assume 95% control for watering (engineering estimate of permittee)
(2.72 TPY)(0.05) = 0.14 controlled PE

Total Aggregate Handling = Transfer Points and Screens + Load-In to Screen
= 3.60 TPY + 0.14 TPY
= 3.74 TPY controlled PE
Emission Limitation:
Visible emissions of fugitive dust discharging form the screening operation, transfer points, or conveyors, shall not exceed 10% opacity.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation:
NOx emissions shall not exceed 2.2 lb/hr and 7.2 tons, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/96 (0.031lb/HP-hr) by the maximum rated capacity of P901 (70 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission calculation, then dividing by 2000 lb/ton.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.
Emission Limitation:
SO2 emissions shall not exceed 0.2 lb/hr and 0.7 tons, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/96 (0.00205 lb/HP-hr) by the maximum rated capacity of P901 (70 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation, then dividing by 2000lb/ton.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Method 1-4 and 6 of 40 CFR 60, Appendix A.
Emission Limitation:
VOC emissions shall not exceed 0.2 lb/hr and 0.7 tons, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/96 (0.00251 lb/HP-hr) by the maximum rated capacity of P901 (70 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation, then dividing by 2000lb/ton.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Method 1-4 and 18, 25 or 25A of 40 CFR 60, Appendix A.
Emission Limitation:
CO emissions shall not exceed 0.5 lb/hr and 1.7 tons, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/96 (0.00668 lb/HP-hr) by the maximum rated capacity of P901 (70 HP). Compliance with the tons per year emission limitation is demonstrated by multiplying the actual annual hours of operation by the lbs/hr emission limitation, then dividing by 2000lb/ton.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Method 1-4 and 10 of 40 CFR 60, Appendix A.
Emission Limitation:
PE emissions shall not exceed 0.46 tons, as a rolling 12-month summation.

Applicable Compliance Method:
Compliance with the lbs/hr emission limitation shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, 10/96 (0.31 lb/MMBtu) by the maximum rated capacity of P901, in MMBtu/hr. Compliance with the tons per year emission limitation is demonstrated by multiplying the maximum input capacity of the generator (0.46 MMBtu/hr) by the lb/MMBtu emission factor and then by the annual operating hours, then dividing by 2000lb/ton.

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with the methods and procedures specified in Method 1-5 of 40 CFR 60, Appendix A.
Emission Limitation:
Particulate emissions shall not exceed 0.310 lb/million Btu actual heat input.

Applicable Compliance Method:
Compliance shall be based upon an emission factor of 0.31 lb/million Btu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).
Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

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

F. **Miscellaneous Requirements**

1. 1. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i), or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(E).

2. 2. Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(E), the following criteria must be met for all portable facilities seeking approval for relocation:

   a. the portable source must possess an issued permit to install (PTI) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,

b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit.

3. In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:

   a. the permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/ Local air agency a minimum of thirty days prior to the scheduled relocation;

   b. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and

   c. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under rule 3745-15-07 of the Administrative Code and that the relocation will not result in the installation or modification of a major stationary source.

   Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".

4. In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(E) (i.e. the 15-day option) , the following additional criteria must be met:

   a. the portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;

   b. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);

   c. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);

   d. a public notice, consistent with OAC rule 3745-47, has been published in the county where the proposed site (s) is/are located; and

   e. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

   Using the 15-day option, the portable source may only be relocated upon receipt of the"Notice of Site Approval", and following submittal of the 15-day notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-05(E) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

5. Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

6. When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (KKK) and (III), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745-77-01, must also meet all applicable requirements under the Title V program contained in OAC rule 3745-77, which may include the requirement to apply for a Title V permit.