Facility ID: 0448950002 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: 0448950002 Emissions Unit ID: P901 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
P901 - Portable Aggregate Heater with associated Material Handling		
Material Handling: Aggregate Bin loading, Transfer of Aggregate to conveyor system, loading/unloading of truck.	OAC rule 3745-31-05(A)(3) (PTI 04-01408 issued 6/21/2005)	0.09 tons fugitive particulate emissions (PE)/yr Visible PE restrictions (see Section A.2.d) Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.c) See Section A.2.e See Section A.2.e
	OAC rule 3745-17-07(B)(1)	
	OAC rule 3745-17-08(B)	
Portable Aggregate Heater fired with No. 2 fuel oil at a maximum rated capacity of 16.7 mmBtu/hr and controlled by a baghouse.	OAC rule 3745-31-05(A)(3) (PTI 04-01408 issued 6/21/2005)	Stack particulate emissions (Stack PE) shall not exceed 0.4 pounds fugitive particulate emissions (PE)/yr or 0.14 ton per year. The emissions of carbon monoxide (CO) shall not exceed 0.5 pound per hour or 0.18 ton per year. The emissions of nitrogen oxides (NOx) shall not exceed 1.24 pounds per hour or 0.45 ton per year. The emissions of sulfur dioxide (SO2) shall not exceed 7.9 pounds per hour or 2.83 tons per year. The emissions of volatile organic compounds (VOC) shall not exceed 0.034 pound per hour or 0.01 ton per year. Visible emissions of particulate shall not exceed 10% opacity as a six-minute average. See Section A.2.f See Section A.2.g See Section A.2.g See Section A.2.h

OAC rule 3745-17-07(A)(1)	See Section A.2.i
OAC rule 3745-17-11(A)(2)	See Section A.2.j
OAC rule 3745-21-07(B)	
OAC rule 3745-21-08(B)	
OAC rule 3745-23-06(B)	

2. **Additional Terms and Conditions**

(a) 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 the following control measures to ensure compliance:

Material Handling Operation Control Measure(s)

Transfer points Wet suppression

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 the use of the control measure is unnecessary.
Implementation of the above-mentioned control measures in compliance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
Visible fugitive PE from the material handling shall not exceed 10% opacity as a 3-minute average.
The requirements of this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3).
The hourly emission limitations specified above are based upon the emission unit's potential to emit. Therefore, no hourly records are required to be maintained to demonstrate compliance with these limitations.
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).
The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all the applicable rules.

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 permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by complying with all the applicable rules.

On February 15, 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, 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. In accordance with the permittee's application, the permittee has committed to restrict the operation of the portable aggregate heater to 720 hours per year.

2. The permittee shall only combust No. 2 fuel oil, containing less than 0.5% sulfur, by weight, in the emissions unit.

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the material handling operations (aggregate bin loading, transfer of aggregate to conveyor system, conveyor transfer points, and truck loading) serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. The location and color of the emissions;
b. Whether the emissions are representative of normal operations;
c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. The total duration of any visible emission incident; and
e. Any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emission unit).

With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee shall maintain documentation on the sulfur content of all fuels received.

3. 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 this emissions unit.

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in the operations log. If visible emissions 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 emissions incident; and
   e. Any corrective actions taken to eliminate the visible emissions.

5. The permittee shall maintain records of the annual hours of operation.

D. **Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from egress points (aggregate bin loading, transfer of aggregate to conveyor system, conveyor transfer points, and truck loading) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 fuel oil, containing less than 0.5% sulfur by weight, was combusted in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director, the appropriate Ohio EPA District Office, or Local Air Agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit annual reports that identify any exceedances of the annual operating hours restriction, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted to the Director, the appropriate Ohio EPA District Office, or Local Air Agency by January 31 of each year.

5. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
   The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   i. The portable emissions unit is equipped with the best available technology for such portable emissions unit;

   ii. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;

   iii. The applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and

   iv. In the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.
   In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

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

   ii. The portable emissions unit is equipped with best available technology;

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

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

   v. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

   vi. 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 this proposed site; and

   vii. The portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

6. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable 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 City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of this notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

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.

E. **Testing Requirements**

1. Emission Limitation: 0.09 TPY of fugitive PE

   Applicable Compliance Method: The emission limitation was established by combining the emissions from unloading, loading, and transfer point.

   Compliance with the emission rate shall be determined as follows:

   Material Unloading to the Aggregate Bin - emissions associated with material unloading to the aggregate bin was established by multiplying an AP-42 emission factor of 0.00014 lb/ton PE (Section 11.19.2-2 - 8/04) by the maximum restricted operations of 28,800 tons/yr and dividing by 2,000 lb/ton (0.002 tons/yr).

   Transfer emissions - emissions associated with the conveyor system transferring at two points prior to the aggregate heater were established for each point by multiplying an AP-42 emission factor of 0.00014 lb/ton PE (Section 11.19.2-2 - 8/04) by the maximum restricted operations of 28,800 tons/yr and dividing by 2,000 lb/ton (0.002 tons/yr).

   Transfer emissions - emissions associated with the conveyor system transferring at two points after the aggregate heater were established for each point by multiplying an AP-42 emission factor of 0.003 lb/ton PE (Section 11.19.2-2 - 8/04) by the maximum restricted operations of 28,800 tons/yr and dividing by 2,000 lb/ton (0.0432 tons/yr).

   Therefore, provided compliance is shown with the maximum restricted operational throughput and the requirements of this permit apply to the best available control measures, compliance with the ton per year PE limitation will be assumed.

2. Emission Limitation: 10% opacity, as a 3-minute average for material handling.

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

3. Emission Limitation: Visible emissions of particulate from the stack shall not exceed 10% opacity as a 6-minute average.

   Applicable Compliance Method: Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(1).

4. Emission Limitation: The emissions of CO shall not exceed 0.5 pound per hour.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emission factors listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, Table 1.3-1, dated 9/98, (0.005 lb CO/gal) and the fuel oil consumption per hour as follows:

   (0.005 lb CO/gal)(100 gal of fuel consumed/hr) = 0.5 lb CO/hr

   If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

5. Emission Limitation: The emissions of CO shall not exceed 0.18 ton per year.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emissions factor listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, Table 1.3-1, dated 9/98, (0.005 lb CO/gal) and the number of gallons of fuel oil used per year as follows:

   (0.005 lb CO/gal)(100 gal/hr)(720 hr/yr)(1 ton/2000 lb) = 0.18 ton CO/yr

6. Emission Limitation: The emissions of NOx shall not exceed 1.24 pounds per hour.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emission factors listed in AP-42, Fifth Edition, Sand and Gravel Processing, Section 11.19.1, Table 11.19.1-1, dated 11/95, (0.031 lb NOx/ton) and the maximum production capacity (tons per hour) as follows:

   (0.031 lb NOx/ton)(40 tons/hr) = 1.24 lbs NOx/hr

   If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

7. Emission Limitation: The emissions of NOx shall not exceed 0.45 ton per year.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emissions factor listed in AP-42, Fifth Edition, Sand and Gravel Processing, Section 11.19.1, Table 11.19.1-1, dated 11/95, (0.031 lb NOx/ton), the maximum production capacity (tons per hour), and the number of hours operated per year as follows:

   (0.031 lb NOx/ton)(40 tons/hr)(720 hr/yr)(1 ton/2000 lb) = 0.45 ton NOx/yr

8. Emission Limitation: PE (from the stack) shall not exceed 0.4 pound per hour.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the controlled emission factors listed in AP-42, Fifth Edition, Sand and Gravel Processing, Section 11.19.1, Table 11.19.1-1, dated 11/95, (0.01 lb PE/ton) and the maximum production capacity (tons per hour) to sum for each emission point as follows:

   (0.01 lb PE/ton)(40 ton/hr) = 0.4 lb PE/hr

9. Emission Limitation: PE (from the stack) shall not exceed 0.14 ton per year.

   Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the controlled emissions factor listed in AP-42, Fifth Edition, Sand and Gravel Processing, Section 11.19.1, Table 11.19.1-1, dated 11/95, (0.01 lb PE/ton), the maximum production capacity (tons per hour), and the number of hours operated per year as follows:

   (0.01 lb PE/ton)(40 ton/hr)(720 hr/yr)(1 ton/2000 lb) = 0.14 ton PE/yr

10. Emission Limitation: The emissions of SO2 shall not exceed 7.9 pounds per hour.

    Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emission factors listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, dated 9/98, (0.0785 lb SO2/gal) and the fuel oil consumption per hour as follows:

    (0.0785 lb SO2/gal)(100 gal of fuel consumed/hr) = 7.9 lb SO2/hr

    If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 6 of 40 CFR Part 60, Appendix A.

11. Emission Limitation: The emissions of SO2 shall not exceed 2.83 tons per year.

    Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emissions factor listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, Table 1.3-1, dated 9/98, (0.0785 lb SO2/gal) and the number of gallons of fuel oil used per year as follows:

    (0.0785 lb SO2/gal)(100 gal/hr)(720 hr/yr)(1 ton/2000 lb) = 2.83 tons SO2

12. Emission Limitation: The emissions of VOC shall not exceed 0.034 pound per hour.

    Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emissions factors listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, dated 9/98, (0.00034 lb VOC/gal) and the fuel oil consumption per hour as follows:

    (0.00034 lb VOC/gal)(100 gal of fuel consumer/hr) = 0.034 lb VOC/hr

    If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

13. Emission Limitation: The emissions of VOC shall not exceed 0.01 ton per year.

    Applicable Compliance Method: Compliance shall be demonstrated by an emissions calculation utilizing the emissions factor listed in AP-42, Fifth Edition, Fuel Oil Consumption, Section 1.3, Table 1.3-1, dated 9/98, (0.00034 lb VOC/gal) and the number of gallons of fuel oil used per year as follows:

    (0.00034 lb VOC/gal)(100 gal/hr)(720 hr/yr)(1 ton/2000 lb) = 0.01 ton VOC/yr

F. **Miscellaneous Requirements**

1. None