

Facility ID: 1667050040 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.

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Facility ID: 1667050040 Emissions Unit ID: F001 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
aggregate processing plant #1	OAC rule 3745-31-05 (PTI 16-1934)	35.4 tons of particulate matter (PM) per year (See Section A.2.h below)
primary crusher	40 CFR Part 60, subpart OOO	See Section A.2.b below. No permittee shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.
primary screening operation	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any screening operation any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).
surge bin	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any storage bin any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).
secondary wet screening operation	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin (See Section A.2.g).
log washer	OAC rule 3745-31-05	There shall be no visible particulate emissions (PE) from the log washer.
two tertiary wet screening operations	OAC rule 3745-31-05	There shall be no visible PE from the tertiary wet screening operations.
wet classifier	OAC rule 3745-31-05	There shall be no visible PE from the wet classifier.
three wet sand screws	OAC rule 3745-31-05	There shall be no visible PE from the wet sand screws.
material handling operations: conveying, transfer points, and load-in to the feed hopper via truck dumping	OAC rule 3745-31-05	20% opacity, as a 3-minute average for truck dumping into the feed hopper
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Sections A.2.d through A.2.f)
	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any transfer point any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).

No permittee shall cause to be discharged into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin (See Section A.2.g).

2. Additional Terms and Conditions

- (a) This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).

The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F001. If the inherent moisture in the sand and gravel is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations in the production line.

The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

. Regulatory Basis

Emission Point Equipment Type Opacity Limit for Limit

truck dumping front-end loaders/ 20% as 3-minute OAC rule 3745-31-03
into feed hopper feed hopper average
F1

feed hopper F1 to transfer point 10% 40 CFR Part 60, subpart 000
belt conveyor C1

primary crusher to transfer point 10% 40 CFR Part 60, subpart 000
belt conveyor C1

belt conveyor C1 transfer point 10% 40 CFR Part 60, subpart 000
to belt conveyor C2

belt conveyor C2 transfer point 10% 40 CFR Part 60, subpart 000
to primary screening
operation S1

primary screening transfer point 10% 40 CFR Part 60, subpart 000
operation S1 to
belt conveyor C3

belt conveyor C3 transfer point 10% 40 CFR Part 60, subpart 000
to belt conveyor C4

primary screening transfer point 10% 40 CFR Part 60, subpart 000
operation S1 to
belt conveyor C5

belt conveyor C5 transfer point 10% 40 CFR Part 60, subpart 000
to belt conveyor C6

belt conveyor C6 transfer point 10% 40 CFR Part 60, subpart 000
to surge bin B1

surge bin B1 to transfer point 10% 40 CFR Part 60, subpart 000
belt conveyor C7

belt conveyor C7 transfer point 10% 40 CFR Part 60, subpart 000
to belt conveyor C8

belt conveyor C8 transfer point 10% 40 CFR Part 60, subpart 000
to secondary wet
screening operation S2

secondary wet transfer point No VEs* OAC rule 3745-31-05
screening operation
S2 to log washer

log washer to transfer point No VEs* OAC rule 3745-31-05
tertiary wet
screening operation S3

tertiary wet transfer point No VEs* 40 CFR Part 60, subpart 000
screening operation
S3 to belt conveyor C9

tertiary wet transfer point No VEs* 40 CFR Part 60, subpart 000
screening operation
S3 to belt conveyor C10

belt conveyor C10 transfer point No VEs* 40 CFR Part 60, subpart 000
to tertiary wet
screening operation S4

tertiary wet transfer point No VEs* 40 CFR Part 60, subpart OOO
screening operation
S4 to belt conveyor C11

tertiary wet transfer point No VEs* 40 CFR Part 60, subpart OOO
screening operation
S4 to belt conveyor C12

tertiary wet transfer point No VEs* 40 CFR Part 60, subpart OOO
screening operation
S4 to belt conveyor C13

secondary wet transfer point No VEs* OAC rule 3745-31-05
screening operation
S2 to wet classifier CL1

wet classifier CL1 transfer point No VEs* OAC rule 3745-31-05
to wet sand screw
SS1

wet sand screw transfer point No VEs* 40 CFR Part 60, subpart OOO
SS1 to belt
conveyor C14

wet classifier CL1 transfer point No VEs* OAC rule 3745-31-05
to wet sand screw
SS2

wet sand screw transfer point No VEs* 40 CFR Part 60, subpart OOO
SS2 to belt
conveyor C15
wet classifier CL1 transfer point No VEs* OAC rule 3745-31-05
to wet sand screw
SS3

wet sand screw transfer point No VEs* 40 CFR Part 60, subpart OOO
SS3 to belt
conveyor C16

*VEs = visible emissions

The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 measure(s) to ensure compliance:

material handling operation(s) control measure(s)

truck dumping into feed hopper maintain a low drop height and a high
. moisture content for the material
. being processed

transfer points listed in Section maintain a high moisture content
A.2.a of these terms and conditions for the material being processed
with a 10% opacity limitation

transfer points listed in Section wet screening
A.2.a of these terms and conditions
with no visible emissions limitation

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 measure(s) 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(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

The 35.4 TPY PM limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

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 particulate emissions of fugitive dust from the primary crusher, the primary screening operation, the surge bin, the secondary wet screening operation, the log washer, each tertiary wet

screening operation, the wet classifier, and each wet sand screw. The presence or absence of any visible 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 eliminate the visible emissions.
2. 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
3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.
- The information in 5.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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive were observed from the primary crusher, the primary screening operation, the surge bin, the secondary wet screening operation, the log washer, each tertiary wet screening operation, the wet classifier, and/or each wet sand screw 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.
2. 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.
3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in Section 60.672 of 40 CFR Part 60, subpart OOO, including reports of opacity observations made using Method 9.
4. The permittee of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit.
5. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Administrator and the Director. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
6. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment of equal or smaller size having the same function as the existing facility:
 - a. for a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - i. the rated capacity in tons per hour of the existing facility being replaced, and
 - ii. the rated capacity in tons per hour of the replacement equipment;
 - b. for a screening operation:

- i. the total surface area of the top screen of the existing screening operation being replaced, and
- ii. the total surface area of the top screen of the replacement screening operation;
- c. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt; and
- d. for a storage bin:
 - i. the rated capacity in tons of the existing bin being replaced, and
 - ii. the rated capacity in tons of replacement storage bins.

The notification shall be submitted within 30 days after equipment replacement.

- 7. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.

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

35.4 tons of PM per year

Applicable Compliance Method

Total Emissions = SUMMATION[Primary Crushing + Feed Hopper Screening + Primary Screening + Secondary Screening + Tertiary Screening + Load-in to Feed Hopper + Transfer and Conveying]

Primary Crushing: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0007 pound of PE per ton of material throughput by the maximum annual material throughput rate, then divided by 2000.

Primary Screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of PE per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Feed Hopper Screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of PE per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Secondary Screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.001764* pound of PE per ton of material throughput by the maximum annual material throughput rate, then divided by 2000.

Tertiary Screening: For each screen, multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.1491* pound of PE per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a control factor of 99% (1-.99), then divided by 2000.

Load-in to Feed Hopper: Multiply the AP-42 derived emission factor (AP-42, Chapter 13.2.4 equation 1 (1/95)) of 0.003 pound of PE per ton of loaded-in by the maximum annual amount of material loaded-in, then divided by 2000.

Transfer and Conveying: Multiply the Fire 6.01 emission factor (US EPA Fire 6.01 SCC 30502503) of 0.029 pound of PE per ton of product by the maximum annual amount of product. Then multiply the resulting uncontrolled emission rate by a control factor of 90% (1-.90), then divided by 2000.

*Emission factor was multiplied by 2.1 to convert the emission factor from PM-10 to total suspended particulate.
Emission Limitation

20% opacity as a three-minute average

Applicable Compliance Method

OAC rule 3745-17-03(B)(3)
Emission Limitation

15% opacity for the primary crusher

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation

10% opacity for the primary screening operation, the surge bin, and the transfer points listed in Section A.2.c of these terms and conditions.

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation

no visible PE

Applicable Compliance Method

Method 22 of 40 CFR Part 60, Appendix A

F. **Miscellaneous Requirements**

1. None

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Facility ID: 1667050040 Emissions Unit ID: F003 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
aggregate processing plant #3	OAC rule 3745-31-05 (PTI 16-1934)	24.0 tons of particulate matter (PM) per year (See Section A.2.h below)
primary crusher	40 CFR Part 60, subpart OOO	See Section A.2.b below. No permittee shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.
primary screening operation	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any screening operation any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).
surge bin	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any storage bin any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).
material handling operations: conveying, transfer points, and load-in to the plate feeder via truck dumping	OAC rule 3745-31-05	20% opacity, as a 3-minute average for truck dumping into the plate feeder best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Sections A.2.d through A.2.f)
	40 CFR Part 60, subpart OOO	No permittee shall cause to be discharged into the atmosphere from any transfer point any fugitive emissions which exhibit greater than 10 percent opacity (See Section A.2.g).

2. **Additional Terms and Conditions**

- (a) This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B). The permittee shall employ best available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F003. If the inherent moisture in the stone is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations in the production line. The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

. Regulatory Basis
Emission Point Equipment Type Opacity Limit for Limit

truck dumping front-end loaders/ 20% as 3-minute OAC rule 3745-31-03
into plate feeder F1 feed hopper average

plate feeder F1 to transfer point 10% 40 CFR Part 60, subpart OOO
belt conveyor C1

primary crusher CR1 transfer point 10% 40 CFR Part 60, subpart OOO
to belt conveyor C1

belt conveyor C1 transfer point 10% 40 CFR Part 60, subpart OOO
to belt conveyor C2

belt conveyor C2 transfer point 10% 40 CFR Part 60, subpart OOO
to surge bin B1

surge bin B1 to transfer point 10% 40 CFR Part 60, subpart OOO
to belt conveyor C3

belt conveyor C3 transfer point 10% 40 CFR Part 60, subpart OOO
to primary screening
operation S1

primary screening transfer point 10% 40 CFR Part 60, subpart OOO
operation S1 to belt
conveyor C4

belt conveyor C4 transfer point 10% 40 CFR Part 60, subpart OOO
to belt conveyor C5

primary screening transfer point 10% 40 CFR Part 60, subpart OOO
operation S1 to belt
conveyor C6

primary screening transfer point 10% 40 CFR Part 60, subpart OOO
operation S1 to belt
conveyor C7

The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 measure(s) to ensure compliance:

material handling operation(s) control measure(s)

truck dumping into plate feeder maintain a low drop height and a high
. moisture content for the material
. being processed

transfer points maintain a high moisture content for
. the material being processed

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 measure(s) 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(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

The 24.0 TPY PM limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

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 particulate emissions of fugitive dust from the primary crusher, the primary screening operation, and the surge bin. The presence or absence of any visible 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 eliminate the visible emissions.
- 2. 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
- 3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 4. 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.
- 5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 5.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.

D. Reporting Requirements

- 1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive were observed from the primary crusher, the primary screening operation, and/or the surge bin 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.
- 2. 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.
- 3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in Section 60.672 of 40 CFR Part 60, subpart OOO, including reports of opacity observations made using Method 9.
- 4. The permittee of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit.
- 5. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Administrator and the Director. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
- 6. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment of equal or smaller size having the same function as the existing facility:
 - a. for a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - i. the rated capacity in tons per hour of the existing facility being replaced, and
 - ii. the rated capacity in tons per hour of the replacement equipment;
 - b. for a screening operation:
 - i. the total surface area of the top screen of the existing screening operation being replaced, and
 - ii. the total surface area of the top screen of the replacement screening operation;
 - c. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt; and

d. for a storage bin:

- i. the rated capacity in tons of the existing bin being replaced, and
- ii. the rated capacity in tons of replacement storage bins.

The notification shall be submitted within 30 days after equipment replacement.

7. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.

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

24.0 tons of PM per year

Applicable Compliance Method

Total Emissions = SUMMATION[Primary Crushing + Feed Hopper Screening + Primary Screening + Load-in to Plate Feeder + Transfer and Conveying]

Primary Crushing: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.005* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Primary Screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Feed Hopper Screening: Multiply the AP-42 emission factor (AP-42, Table 11.19.2-2 (1/95)) of 0.0315* pound of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

Load-in to Plate Feeder: Multiply the AP-42 derived emission factor (AP-42, Chapter 13.2.4 equation 1 (1/95)) of 0.003 pound of particulate emissions per ton of loaded-in by the maximum annual amount of material loaded-in, then divided by 2000.

Transfer and Conveying: For each transfer point, multiply the AP-42 (9/95, Table 11.19.2-2) emission factor of 0.0029 pounds of particulate emissions per ton of material throughput by the maximum annual material throughput rate. Then multiply the resulting uncontrolled emission rate by a moisture control factor of 80% (1-.80), then divided by 2000.

*Emission factor was multiplied by 2.1 to convert the emission factor from PM-10 to total suspended particulate.
Emission Limitation

20% opacity as a three-minute average

Applicable Compliance Method

OAC rule 3745-17-03(B)(3)
Emission Limitation

15% opacity for the primary crusher

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation

10% opacity for the primary screening operation, the surge bin, and the transfer points listed in Section A.2.c of these terms and conditions.

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A

F. Miscellaneous Requirements

1. None

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

Facility ID: 1667050040 Emissions Unit ID: F004 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

conveyor C2

primary screening transfer point No VEs* 40 CFR Part 60, subpart OOO
operation S1 to belt
conveyor C3

primary screening transfer point No VEs* 40 CFR Part 60, subpart OOO
operation S1 to wet
sand screw SS1

wet sand screw SS1 transfer point No VEs* 40 CFR Part 60, subpart OOO
to belt conveyor C4

belt conveyor C4 transfer point No VEs* 40 CFR Part 60, subpart OOO
to belt conveyor C5

The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 measure(s) to ensure compliance:

material handling operation(s) control measure(s)

truck dumping into belt feeder maintain a low drop height and a high
. moisture content for the
. material being processed

transfer points maintain a high moisture content for the
. material being processed and employ wet
. screening

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 measure(s) 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(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

Compliance with the opacity limitations shall have been achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

The 7.4 TPY PM limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. The emissions unit shall not exceed a processing rate of 96 tons of sand and gravel per hour.

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 particulate emissions of fugitive dust from the primary screening operation and the wet sand screw. The presence or absence of any visible 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 eliminate the visible emissions.
2. 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
3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
4. 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.
5. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the

control measure(s):

- c. the dates the control measure(s) was (were) implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 5.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.

6. The permittee shall maintain daily records of the following information:

- a. the amount of sand and gravel process, in tons per day;
- b. the total number of hours the emissions unit was in operation; and
- c. the average production rate, in tons per hour (i.e., (a)/(b)).

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions of fugitive were observed from the primary screening operation and/or the wet sand screw 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.
2. 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.
3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in Section 60.672 of 40 CFR Part 60, subpart OOO, including reports of opacity observations made using Method 9.
4. The permittee of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to the no visible emission limit and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit and the emission test requirements of Section 60.11 of 40 CFR Part 60, subpart A and 40 CFR Part 60, subpart OOO. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit.
5. A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Administrator and the Director. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
6. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment of equal or smaller size having the same function as the existing facility:
 - a. for a screening operation:
 - i. the total surface area of the top screen of the existing screening operation being replaced, and
 - ii. the total surface area of the top screen of the replacement screening operation;
 - b. for a conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt; and

The notification shall be submitted within 30 days after equipment replacement.
7. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any exceedance of the production rate restriction of 96 tons of sand and gravel per hour. The notification shall include a copy of the exceedance determination and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days of the occurrence.
8. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.

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
 - 7.4 tons of PM per year
 - Applicable Compliance Method
 - Total Emissions = SUMMATION[Feed Hopper Screening + Primary Screening + Load-in to Belt Feeder + Transfer and Conveying]

Feed Hopper Screening: Multiply the AP-42 emission factor (AP-42 Table 11.19.2-2 (1/95)) of 0.03* pound of particulate emissions per ton of product by the maximum annual amount of product. Then multiply the resulting uncontrolled emission rate by a control factor of 80% (1-.80), then divided by 2000.

Primary Screening: Multiply the AP-42 emission factor (AP-42 Table 11.19.2-2 (1/95)) of 0.03* pound of particulate emissions per ton of product by the maximum annual amount of product. Then multiply the resulting uncontrolled emission rate by a control factor of 99% (1-.99), then divided by 2000.

Load-in to Belt Feeder: Multiply the AP-42 derived emission factor (AP-42, Chapter 13.2.4 equation 1 (1/95)) of 0.0016 pound of particulate emissions per ton of loaded-in by the maximum annual amount of material loaded-in, then divided by 2000.

Transfer and Conveying: Multiply the Fire 6.01 emission factor (US EPA Fire 6.01 SCC 30502503) of 0.029 pound of particulate emissions per ton of product by the maximum annual amount of product. Then multiply the resulting uncontrolled emission rate by a control factor of 90% (1-.90), then divided by 2000.

*Emission factor was multiplied by 2.1 to convert the emission factor from PM-10 to total suspended particulate.
Emission Limitation

20% opacity as a three-minute average

Applicable Compliance Method

OAC rule 3745-17-03(B)(3)
Emission Limitation

no visible particulate emissions for the transfer points after the primary screening operation

Applicable Compliance Method

Method 22 of 40 CFR Part 60, Appendix A
Emission Limitation

10% opacity for the transfer points prior to the primary screening operation listed in Section A.2.c of these terms and conditions.

Applicable Compliance Method

Compliance shall be demonstrated using US EPA Method 9 of 40 CFR Part 60, Appendix A.
Emission Limitation

no visible particulate emissions for the wet sand screw

Applicable Compliance Method

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None