

GENERAL PERMIT 10.1 TEMPLATE

AGGREGATE PROCESSING

Appendix A and Non-Appendix A areas and without baghouse or wet scrubber control

C. Emissions Unit Terms and Conditions

Note: The following are the terms and conditions for a General PTIO to be issued to a non-Title V facility

1. [Emissions Unit ID], [Company Equipment ID]

Operations, Property and/or Equipment Description:

[(F00X) - Aggregate Processing Plant]

- a) 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.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F00X) – Aggregate Processing Plant with up to: 3 crushing, 5 screening, 45 transfer points, and material handling operations, and a maximum production of 0 - 3,000,000 tons/year

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	Fugitive particulate matter equal to or less than 10 microns in size (PM10) shall not exceed 13.56 tons/yr. See b)(2)a through b)(2)c.
b.	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)	See b)(2)d.
c.	OAC rule 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)	See b)(2)e.
d.	40 CFR, Part 60, Subpart OOO	Visible emission restrictions

<p>(40 CFR 60.670-60.676)</p> <p>[In accordance with 40 CFR 60.670(a), this emissions unit is comprised of crushers, screening operations, conveyors, and storage bins that are affected facilities subject to the emission limitations and requirements specified in this section.]</p>	<p>See b)(2)f.</p>
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(2) Additional Terms and Conditions

- a. The permittee has committed to employ the following control measures for this emissions unit for purposes of ensuring compliance with the above-mentioned applicable requirements:

Material Handling/Processing Operation	Control Measures
loading and unloading	reduced drop height, wet application, as necessary*
crushing and screening	wet application, as necessary*, or total enclosures
transfer and conveying	partial and/or total enclosures, wet application, as necessary*

* If at any time the moisture content of the material processed or handled is not sufficient to meet the above applicable requirements, the permittee shall employ a wet suppression control system to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- b. 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 measures is unnecessary.
- c. The BAT requirements under ORC 3704.03(T) have been determined to be compliance with the ton per year limit contained in b(1) a.
- d. The visible emission limitations from 40 CFR Part 60 Subpart OOO have been determined to be equivalent to or more stringent than the visible emission limitations established pursuant to OAC rule 3745-17-07(B). It should be noted that the material handling/processing activity of truck unloading to a

feeder is not regulated under 40 CFR Part 60 Subpart OOO and is applicable to the visible particulate emission limitations of 20% opacity as a 3-minute average under OAC rule 3745-07(B)(1) when located within the areas identified in "Appendix A" of OAC rule 3745-17-08.

- e. The requirements of OAC rule 3745-17-08 to employ reasonably available control measures is satisfied by the control measure requirements specified in b)(2)a.
- f. The permittee shall not cause to be discharged into the atmosphere, fugitive dust emissions which exhibit greater than the following:

Material Handling/Processing Operation	Opacity limit*
truck unloading to feeder, in "Appendix A" areas	20%, as a 3-minute average
wet screening and screening of saturated materials	no visible emissions
conveyor transfer points of saturated materials	no visible emissions
transfer points on belt conveyors or any other affected facility in a building	7%, as a 6-minute average
For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008:	
Crushing/with no capture system	15%, as a 6-minute average
conveyor transfer points feeding and exiting crushers	15%, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	10%, as a 6-minute average
For affected facilities (as defined in 60.670 and 60.671) that commenced construction, modification, or reconstruction on or after April 22, 2008:	
crushers with no capture system	12 %, as a 6-minute average
grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, and any other affected facility as defined by this rule	7%, as a 6-minute average

c) Operational Restrictions

- (1) The maximum annual material throughput for this emissions unit shall not exceed 3,000,000 tons based on the material throughput of the primary feeder.
- (2) This General Permit restricts the permittee to up to: 3 crushers (e.g. primary, secondary and tertiary), 5 screens, and 45 transfer points.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the amount of material processed through the primary feeder of this emissions unit in (a) tons per month and (b) total tons, to date, for the calendar year.
- (2) Except as otherwise provided in this section, for aggregate processing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Aggregate Processing Operation	Minimum Inspection Frequency
each loading operation (truck dumping into a feeder, hopper, or crusher)	once per day of operation
each plant conveyor & transfer point	once per day of operation
each screen	once per day of operation
each crusher	once per day of operation

- (3) The permittee shall maintain daily 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 (d) shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (4) When using a wet suppression system to control fugitive dust, the permittee shall perform monthly periodic inspections for each piece of equipment constructed, modified, or reconstructed on or after April 22, 2008, to check that water is flowing to the discharge spray nozzles. The permittee must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if water is not flowing properly during an inspection of the water spray nozzles. The permittee must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under d)(6).

- (5) If the permittee, meeting the requirements of d(4) above, ceases operation of the water sprays or is using a control mechanism other than water sprays to reduce fugitive dust emissions during the monthly inspection (for example, water from recent rainfall), the logbook entry required under d)(6) must specify the control mechanism being used instead of the water sprays.
- (6) The permittee must record each periodic inspection required under d)(4) and d)(5), including dates and any corrective actions taken, in a logbook (in written or electronic format). The permittee must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Ohio EPA upon request.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements in term numbers d)(1), (2) and (3) above:
 - a. the total mineral throughput (i.e. the amount of stone loaded into the primary feeder), in tons, for the previous calendar year.
 - b. each day during which an inspection was not performed by the required frequency; and
 - c. 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 the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
 - a. for a crusher:
 - 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.
 - d. for a storage bin;

- i. the rated capacity in tons of the existing storage bin being replaced; and
 - ii. the rated capacity in tons of the replacement storage bins.
- (4) The notification shall be submitted to the appropriate District Office (DO) or Local Air Agency (LAA) within 30 days after the equipment replacement pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
- a. actual start-up date (within 15 days after such date); and
 - b. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to appropriate DO or LAA.:

The addresses for these offices are located at the following web page:

<http://www.epa.ohio.gov/dapc/general/dolaa.aspx>.

f) Testing Requirements

- (1) Compliance with the emissions limitations specified in Section b)(1) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emission Limitations:

13.56 tons fugitive PM10/year

Applicable Compliance Method:

The annual fugitive dust emission limitations were developed by multiplying the following controlled emission factors from Ap-42 Section 11.19.2-2 (8/04) by the annual throughput restriction of 3,000,000 tons/year, added to the product of the throughput multiplied by AP-42 Section 13.2.4 (11/06) emission factor with a control efficiency of 80%. and then dividing by 2000 pounds/ton

Aggregate Processing Operation	PM10 Emission Factor
up to 5 screens	0.00074 lb/ton processed
up to 3 crushers	0.00054 lb/ton processed
up to 45 transfer points	0.000046 lb/ton processed

Provided compliance is shown with the operational restrictions of this permit and the requirement to apply best available control measures, compliance with the annual emission limitations shall be demonstrated.

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average for loading operations (truck dumping into a feeder, hopper, or crusher) in "Appendix A" areas.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60, Appendix A (Standards of Performance for New Stationary Sources") and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

c. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used; any visible emissions of fugitive dust which exhibit greater than 15% opacity, as a six minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

d. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any crusher constructed, modified, or reconstructed on or after April 22, 2008, any visible emissions of fugitive dust which exhibit greater than 12 % opacity, as a six minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

e. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any of the following operations: transfer points, screens, grinding mills, bucket elevators, enclosed truck or railcar unloading, storage bins, and bagging operations, any visible emissions of fugitive dust which exhibit greater than 10% opacity, as a six minute average (unless otherwise specified).

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

f. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere from any grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations that were constructed, modified, or reconstructed on or after April 22, 2008, and any transfer point or other affected facility enclosed in a building, any visible emissions of fugitive dust which exhibit greater than 7 % opacity, as a six minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

g. Emission Limitation:

The permittee shall not cause to be discharged into the atmosphere any visible emissions of fugitive dust from wet screening operations and subsequent transfer points that process saturated materials.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Method 22 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60, Subpart OOO, section 60.675.

- (2) The permittee shall conduct, or have conducted, visible emissions testing for all fugitive emissions points of this emissions unit, that are subject to 40 CFR Part 60, Subpart OOO.

Visible emissions testing is not required for wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process "saturated material" in the production line, as defined in 60.671, up to, but not including the first crusher, grinding mill or storage bin. The permittee shall notify the appropriate district office or local air agency within 30 days following any change to the operations that causes the aggregate material to no longer meet this definition and the screening operations, bucket elevators, and belt conveyors shall become subject to the opacity standard in 40 CFR 60.672(b) and subsequent opacity testing.

- (3) Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, section 60.8 and 40 CFR Part 60, Subpart OOO, section 60.675.

- (4) The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

- (5) The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:

a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

- (6) The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the appropriate District Office (DO) or Local Air Agency (LAA).

- (7) Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate DO or LAA. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the appropriate DO or LAA.

- (8) Personnel from the appropriate DO or LAA shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and

the testing procedures provide a valid characterization of the emissions from the emissions unit and /or the performance of the control equipment.

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

g) Miscellaneous Requirements

None