

B. ADDITIONAL EMISSIONS LIMITATIONS and CONTROL REQUIREMENTS:

1. Control of Fugitive Dusts During Batch Concrete Plant Operations:

a. Cement Transferring and Silo Storage:

i. Cement shall be transferred pneumatically to the storage silo. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement dusts emanating from the delivery vehicle during transfer shall be cause for the immediate halt of the unloading process and the refusal of the cement load until the situation is corrected.

ii. The cement silo vent shall be adequately enclosed and vented to a fabric filter or suitable dust control system. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the point of capture.

iii. The fabric filter, or other suitable dust control system, on the cement silo shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gas or there shall be no visible emissions from the outlet, whichever is less stringent.

b. Weigh-Hopper Loading of Cement, Sand, and Aggregate:

i. The cement hopper shall be adequately enclosed and the enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust.

ii. The aggregate and sand to be loaded into the weigh-hopper and the conveyor shall have a moisture content sufficient so as to minimize or eliminate at all times visible emissions of fugitive dust. Water spraying devices shall be utilized, if necessary, to control visible emissions of fugitive dusts from this source. The transfer conveyor discharge shall be enclosed and vented to the fabric filter/baghouse dust control. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.

c. Loading of Transit Mix Trucks:

i. The point at which the transit mix truck is loaded shall be enclosed and the drop height of the cement/sand/aggregate mixture into the truck shall be minimized or controlled by either a telescopic or hooded chute so as to minimize or eliminate visible emissions of fugitive dust from this operation.

ii. The fabric filter/baghouse dust control system associated with the transfer conveyor discharge enclosure shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gas or there shall be no visible emissions from the outlet, whichever is less stringent.

iii. Visible particulate emissions from the transit mix truck loading operation shall not exceed twenty (20) percent opacity as a three (3) minute average.

2. Control of Fugitive Dusts from Roadways and Parking Areas:

a. The roadways and parking areas to be associated with this emissions unit shall be treated with water or other dust suppressant, or swept and cleaned regularly (paved areas) with appropriate equipment, in order to minimize or eliminate at all times visible emissions of fugitive dusts generated by vehicular traffic. Frequency of application of water and/or dust suppressant, or of sweeping/cleaning, shall be as needed to minimize fugitive dust emissions. This term and condition shall be waived during wet weather conditions when there is sufficient moisture to prevent visible emissions of fugitive dusts.

b. Any material carried off of the source owner's property and deposited onto the city streets by

vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly in such a manner so as to minimize or prevent further fugitive dust emissions.

c. Opened bodied vehicles transporting, either onto or from the future location of this emissions unit, materials which are likely to become airborne shall be covered at all times.

3. Control of Fugitive Dusts from Sand and Aggregate Material Storage Piles

a. All sand and aggregate storage piles shall contain sufficient moisture so as to minimize or eliminate visible emissions caused by wind erosion. If piles become dry and wind eroded dust emissions become a problem, spraying of piles with water or other appropriate dust suppressant, or covering of piles with canvas or other suitable coverings, will be required to control dusts. This condition will be waived during wet weather conditions.

b. During the unloading onto or removal from the sand and aggregate storage piles, the drop height of the front-end loader or the dump truck shall be minimized in order to minimize or eliminate visible emissions of fugitive dusts.

OPERATIONAL RESTRICTIONS:

1. The dust control system (fabric filter/baghouse dust collection devices) to be installed with this portable concrete batch plant shall be properly maintained in accordance with manufacturers instructions and shall be operated at all times that the any portion of this concrete batch plant is in operation (i.e., loading of cement silo, loading of weigh hoppers, and/or loading of transit mix-trucks). Any malfunction of this dust control system, or any shut down of the system for scheduled or unscheduled maintenance, shall be cause to shut down operations of this emissions unit.

2. A maximum speed limit of ten (10) miles per hour for vehicular traffic shall be posted and enforced on the roadways and parking areas to be associated with this emissions unit.

MONITORING AND/OR RECORDKEEPING REQUIREMENTS:

1. The permittee shall monitor and maintain monthly records of the following information relative to the operation of this emissions unit:

a. the volume and/or weight of sand, limestone, or other aggregate delivered and processed by this portable concrete batch plant;

b. the volume and weight of cement delivered to the storage silo and processed by this emissions unit;

c. the volume and/or weight of concrete processed by (loaded/delivered from) this portable concrete batch plant; and

d. the total cummulative hours of operation of this batch plant and associated dust control system.

2. The permittee shall maintain an operations log on site showing the date and times of application of water and/or other dust suppression material to all roadways, parking areas, and storage piles associated with this emissions unit for control of fugitive dust emissions from the facility.

TESTING REQUIREMENTS:

1. Testing Requirements for Concrete Batch Plant Emissions:

a.Emission Limitation: Emissions from exhaust of dust control system shall be no more than 0.030 grains/dscf or 1.67 lbs/hour.

Applicable Compliance Method: Compliance shall be determined by calculations using the manufacturers stated emissions rating for the dust control system (tested maximum outlet emissions rate of 9.75 grains/min.), the maximum air flow rating of the dust control system (6500 cfm), and the recorded hours of operation of the batch plant and dust control system to determine the average emissions rate from the dust control system in pounds per hour (and grains/dscf of exhaust air). If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).

b.Emissions Limitation: There shall be no visible emissions from the dust control system.

Applicable Compliance Method: Compliance shall be determined in accordance with U.S. EPA Test Method 22, "Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares", as set forth in Chapter 40, Code of Federal Regulations (CFR), Part 60, "Standards of Performance of New Stationary Sources", Appendix A, "Testing Methods", and in OAC rule 3745-17-03.

c.Emissions Limitation: Visible emissions from the material loading operation and transit mix-truck loading shall not exceed twenty (20) percent opacity as a three-minute average.

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

2. Testing Requirements for Fugitive Emissions from Roadways and Parking Areas Associated with this Emissions Unit:

a.Emissions: There shall be no visible emissions from any unpaved roadways and/or parking areas associated with this portable concrete batch plant except for a period of time not to exceed 13 minutes during any sixty-minute observation period.

Applicable Compliance Method: Compliance shall be determined in accordance with U.S. EPA Test Method 22, "Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares", as set forth in Chapter 40, Code of Federal Regulations (CFR), Part 60, "Standards of Performance of New Stationary Sources", Appendix A, "Testing Methods", and in OAC rule 3745-17-03.

3. Testing Requirements for Fugitive Emissions from Material Storage Piles Associated with this Emissions Unit:

a.Emissions Limitation: There shall be no visible emissions from any material storage piles associated with this portable concrete batch plant except for a period of time not to exceed 13 minutes during any sixty-minute observation period.

Applicable Compliance Method: Compliance shall be determined in accordance with U.S. EPA Test Method 22, "Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares", as set forth in Chapter 40, Code of Federal Regulations (CFR), Part 60, "Standards of Performance of New Stationary Sources", Appendix A, "Testing Methods", and in OAC rule 3745-17-03.

MISCELLANEOUS REQUIREMENTS:

1. Notice of Intent to Relocate:

Pursuant to OAC Rule 3745-31-03(A)(1)(p), the permittee of the portable emissions unit identified in this Permit to Install may relocate this emissions unit within the state of Ohio providing the following criteria are met:

- a.the emissions unit is equipped with the Best Available Control Technology of such a source;
- b.the emissions unit has obtained and/or is operating pursuant to a currently effective Permit to Operate;
- c.the applicant has provided proper notice of intent to relocate the emissions unit to the Director within a minimum of 30 days prior to the scheduled relocation; and
- d.in the Director's judgement, the proposed relocation site is acceptable under Rule 3745-15-07 of the Ohio Administrative Code.

In order for the Director to determine compliance with all of the above criteria, the permittee of this portable emissions unit must file a "Notice of Intent to Relocate" at least 30 days prior to the scheduled relocation of the source with the Northeast District Office. Upon receipt of the notice, the Director, or the Director's authorized representative, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and receive Ohio Environmental Protection Agency approval prior to relocation of this emissions unit may result in fines and civil penalties.