

Facility ID: 1652050176 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 1652050176 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>
Paved and unpaved roadways and parking areas (see Sections A.2.a and A.2.b)	OAC rule 3745-31-05 (PTI 16-1689)	11.5 TPY of particulate matter See A.2.c, A.2.d, and A.2.l below.
Paved roadways and parking areas	OAC rule 3745-17-07	See A.2.n below.
Unpaved roadways and parking areas	OAC rule 3745-17-08(B), (B)(8), (B)(9)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.e, A.2.f, A.2.g, A.2.i, A.2.k, and A.2.m)
Unpaved roadways and parking areas	OAC rule 3745-17-08(B), (B)(2)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.h, A.2.i, A.2.j, A.2.k, and A.2.m)

2. Additional Terms and Conditions

- (a) The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Paved roadways: Scale Drive and Plant Drive

Paved parking areas: None

The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Unpaved roadways: Yard

Unpaved parking areas: Parking Area

There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed 1 minute during any 60-minute observation period.

There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed 3 minutes during any 60-minute observation period.

The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

The permittee shall employ reasonably available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the unpaved shoulders of all paved roadways with water and/or

any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

A maximum speed limit of 5 miles per hour shall be posted and enforced on the property.

Implementation of the above control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

The emission limitation based on OAC rule 3745-17-07 is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

Paved roadways and parking areas Minimum inspection frequency

Scale Drive and Plant Drive daily

Unpaved roadways and parking areas Minimum inspection frequency

Yard and Parking Area daily

2. The purpose of the inspections is to determine the need for implementing the control measures specified in Section A.1.2. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. 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.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in C.4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, 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 deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

11.5 TPY of particulate matter

Applicable Compliance Method:

For unpaved roadways and parking areas -

(k) $(5.9)(s/12)(S/30)(W/3)^{0.7}(w/4)^{0.5} [(365-p)/365](VMT/year)$

(AP-42 5th edition, chapter 13.2.2 equation (1))

For paved roadways and parking areas -

$k(sL/2)^{0.65}(W/3)^{1.5}$

(AP-42 5th edition, chapter 13.2.1 equation (1))

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.*

*The procedures relating to Test Method 22 reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing the procedures was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider the procedures as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the procedures as a revision to the Ohio SIP for particulate matter.

F. Miscellaneous Requirements

1. None

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Facility ID: 1652050176 Emissions Unit ID: F002 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>
Sand and aggregate storage piles	OAC rule 3745-31-05 (PTI 16-1689)	20.2 TPY of particulate matter See A.2.b and A.2.c below.
Load-in or load-out of sand and aggregate storage piles (see Section A.I.2.a. for identification of sand and aggregate storage piles)	OAC rule 3745-17-07	See A.2.i below.
Wind erosion from sand and aggregate	OAC rule 3745-17-08(B), (B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d, A.2.e and A.2.h)
	OAC rule 3745-17-07	See A.2.i below.

storage piles

OAC rule 3745-17-08(B), (B)(6)

reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.f through A.2.h)

2. Additional Terms and Conditions

- (a) The sand and aggregate storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

10 limestone storage piles

2 sand storage piles

4 washed gravel storage piles

For material storage piles, there shall be no visible particulate emissions except for a period of time not to exceed one minute during any sixty-minute observation period.

The permittee shall employ aggregate that has been washed prior to delivery.

The permittee shall employ reasonably available control measures on all sand and aggregate load-in and load-out operations associated with the sand and aggregate storage piles 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 treat the sand and aggregate load-in and load-out operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The above-mentioned control measures shall be employed for each sand and aggregate load-in and load-out operation of each storage pile 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 any such operation until further observation confirms that use of the measures is unnecessary.

The permittee shall employ reasonably available control measures for wind erosion from pile surfaces associated with the sand and aggregate storage piles 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 treat the pile surfaces with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The above-mentioned control measures shall be employed for wind erosion from each pile 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. Implementation of the control measures shall not be necessary for a sand and aggregate storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

The visible particulate emission limitation based on OAC rule 3745-17-07 requirements is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each sand and aggregate load-in operation at each sand and aggregate storage pile in accordance with the following frequencies:

storage pile identification minimum load-in inspection frequency

10 limestone storage piles daily

2 sand storage piles daily

4 washed gravel storage piles daily

2. Except as otherwise provided in this section, the permittee shall perform inspections of each sand and aggregate load-out operation at each sand and aggregate storage pile in accordance with the following frequencies:

storage pile identification minimum load-out inspection frequency

10 limestone storage piles daily

2 sand storage piles daily

4 washed gravel storage piles daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each sand and aggregate storage pile in accordance with the following frequencies:

storage pile identification minimum wind erosion inspection frequency

10 limestone storage piles daily

2 sand storage piles daily

4 washed gravel storage piles daily

4. No inspection shall be necessary for wind erosion from the surface of a pile when the pile is covered with snow

and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for sand and aggregate load-in or load-out of a storage pile, and wind erosion from the surface of a sand and aggregate storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. 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.
7. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in C.7.d shall be kept separately for (i) the sand and aggregate load-in operations, (ii) the sand and aggregate load-out operations, and (iii) the sand and aggregate pile surfaces (wind erosion), 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 deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03*

*The procedures related to Test Method 22 reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing these procedures was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider the procedures as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the procedures as a revision to the Ohio SIP for particulate matter.

Emission Limitation:

20.2 TPY of particulate matter

Applicable Compliance Method:

Load-in

$$(k) \quad (0.0032)[(U/5)^{1.3}]/[(M/2)^{1.4}]$$

(AP-42 5th edition, chapter 13.2.4 equation (1))

Load-out

$$(k) \quad (0.0032)[(U/5)^{1.3}]/[(M/2)^{1.4}]$$

(AP-42 5th edition, chapter 13.2.4 equation (1))

Wind Erosion

$$(0.05)(s/1.5)(D/90)(d/235)(f/15)$$

(Ohio EPA RACM, page 2-33)

Vehicle traffic

0.1k(S/1.5)(d)/235)

(Ohio EPA RACM, page 2-35)

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1652050176 Emissions Unit ID: P901 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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- 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>
Ready mix concrete batch plant	OAC rule 3745-31-05 (PTI 16-1689)	6.9 lbs/hr of particulate matter 30.2 TPY of particulate matter
		The permittee shall install a building to enclose the concrete batch plant. The building enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust. See A.2.a below.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-11	
	OAC rule 3745-17-07(B)	The visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area. The sand and aggregate loading system shall be contained within the building enclosure except for the conveyor loading hoppers. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
Cement silo		The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust.
	OAC rule 3745-17-08(B)	The cement silo shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point(s) of capture. The fabric filter/baghouse shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate

emissions from the exhaust stack(s), whichever is less stringent.

See A.2.a below.

Sand and aggregate weigh hopper OAC rule 3745-17-11
OAC rule 3745-17-08(B)

The weigh hopper shall be enclosed within a building. The building enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.

Cement weigh hopper OAC rule 3745-17-08(B)

The cement weigh hopper shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point(s) of capture.

The fabric filter/baghouse shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

See A.2.a below.

Loading of transit-mix trucks OAC rule 3745-17-11
OAC rule 3745-17-08(B)

The transit-mix truck loading shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point(s) of capture.

The fabric filter/baghouse shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

The visible emissions of fugitive dust shall not exceed 20% as a 3-minute average.

See A.2.a below.

OAC rule 3745-17-07(B)

Mixer loading OAC rule 3745-17-11
OAC rule 3745-17-08(B)

The mixer shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point(s) of capture.

The fabric filter/baghouse shall achieve an outlet emission rate of not greater than 0.030 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

The visible emissions of fugitive dust shall not exceed 20% as a 3-minute average.

See A.2.a below.

OAC rule 3745-17-07(B)

OAC rule 3745-17-11

2. **Additional Terms and Conditions**

- (a) The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks while the equipment is in operation for any visible particulate emissions from the fabric filter/baghouse control systems. An identification of each fabric filter/baghouse control system and the presence or absence of any visible emissions from each of the fabric filter/baghouse control systems shall be noted in an operations log. If any visible particulate emissions are observed from any of the control systems, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

D. Reporting Requirements

1. The permittee shall submit on a semi-annual basis a report which (a) identifies for each fabric filter/baghouse control system all days during which any visible particulate emissions were observed from the fabric filter/baghouse control system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or Local Air Agency).

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

0.030 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the procedures and test method(s) specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:

6.9 lbs/hr of particulate matter

Applicable Compliance Method:

Compliance shall be determined by totaling the following products:

- i. Sand and aggregate transfer to elevated bins:

Multiply the AP-42 particulate emission factor of 0.029 pound of particulate emissions per ton of material mixed by 610 tons per hour. The resulting uncontrolled emissions rate, 17.69 lbs/hr, is then multiplied by an enclosure factor of 85% (1-.85), resulting in a controlled emission rate of 2.65 lbs/hr.

- ii. Cement unloading to elevated storage silo (pneumatic):

Multiply the AP-42 particulate emission factor of 0.27 pound of particulate emissions per ton of material mixed by 610 tons per hour. The resulting uncontrolled emissions rate, 164.7 lbs/hr, is then multiplied by a fabric filter/baghouse control factor of 99% (1-.99), resulting in a controlled emission rate of 1.65 lbs/hr.

- iii. Weigh hopper loading:

Multiply the AP-42 particulate emission factor of 0.02 pound of particulate emissions per ton of material mixed by 610 tons per hour. The resulting uncontrolled emissions rate, 12.2 lbs/hr, is then multiplied by a fabric filter/baghouse and enclosure control factor of 90% (1-.9), resulting in a controlled emission rate of 1.22 lbs/hr.

- iv. Truck loading (transit mix) or mixer loading:

Multiply the AP-42 particulate emission factor of 0.02 or 0.04 pound of particulate emissions per ton of material mixed for truck loading or mixer loading, respectively by 610 tons per hour. The resulting uncontrolled emissions rate, 12.2 lbs/hr or 24.4 lbs/hr, is then multiplied by a fabric filter/baghouse control factor of 99% (1-.99), resulting in a controlled emission rate of 0.12 lb/hr or 0.24 lb/hr.

The lbs/hr emission rate for each of the four areas are summed. The resulting emission rate is 5.64 lbs/hr when truck loading or 5.76 lbs/hr when mixer loading.

Emission Limitation:

30.2 TPY of particulate matter

Applicable Compliance Method:

Compliance shall be determined by totaling the following products:

Multiply 5.76 lbs/hr by 8760 hrs/yr and divided by 2000.

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

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

Emission Limitation:

no visible emissions

Applicable Compliance Method:

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

F. **Miscellaneous Requirements**

1. None