

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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[Go to Part II for Emissions Unit P901](#)

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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:
- 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;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - the dates the control measures were implemented; and
 - 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:
- 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
 - 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 -

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

(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 OAC rule 3745-17-08(B), (B)(6)	See A.2.i below. 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)

See A.2.i below.

Wind erosion from sand and aggregate storage piles	OAC rule 3745-17-07 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)
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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

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>
P901 - Ready Mix Concrete Batch Plant	OAC rule 3745-31-05 (PTI 16-02023)	See A.2.a and B.1 below.
	OAC rule 3745-17-07(B)(1)	See A.2.b below.
	OAC rule 3745-17-08(B)	See B.2 through B.4 below.
Transfer of sand and aggregate to elevated bins	OAC rule 3745-17-11	See A.2.c below.
	OAC rule 3745-17-07(B)(1)	See A.2.b below.
Cement silos #1 and #2	OAC rule 3745-17-08(B)	See B.2 through B.4 below.
	OAC rule 3745-17-07(B)(1)	See A.2.b below.
	OAC rule 3745-17-08(B)	See B.5 below.
	OAC rule 3745-17-08(B)(3)(b)	See A.2.d below.
Weigh hopper loading of cement, sand and aggregate	OAC rule 3745-17-11	See A.2.c below.
	OAC rule 3745-17-07(B)(1)	See A.2.b below.
	OAC rule 3745-17-08(B)	See B.6 and B.7 below.
	OAC rule 3745-17-08(B)(3)(b)	See A.2.d below.
Mixer loading	OAC rule 3745-17-11	See A.2.c below.
	OAC rule 3745-17-07(B)(1)	See A.2.b below.
	OAC rule 3745-17-08(B)	See B.8 below.
	OAC rule 3745-17-08(B)(3)(b)	See A.2.d below.
	OAC rule 3745-17-11	See A.2.c below.

Loading of transit-mix trucks

OAC rule 3745-17-07(B)(1)	See A.2.b below.
OAC rule 3745-17-08(B)	See B.9 below.
OAC rule 3745-17-08(B)(3)(b)	See A.2.d below.
OAC rule 3745-17-11	See A.2.c below.

2. Additional Terms and Conditions

- (a) Emissions of particulate matter from this emissions unit shall not exceed 7.53 pounds per hour, nor 32.98 tons per year.
The visible particulate emissions from this emissions unit shall not exceed twenty (20) percent opacity as a 3-minute average.
The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.
Emissions from the outlet of the control equipment serving this emissions unit shall achieve an outlet emission rate of not greater than 0.030 grain of particulate per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

B. Operational Restrictions

- The ready mix concrete batch plant shall be enclosed within a building. The building enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
- The permittee shall employ reasonably 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:
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.
The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins.

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 3745-17-08.
- The permittee shall employ the following reasonably available control measures for the above-identified cement silo loading operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:
Cement shall be transferred pneumatically to silo no. 1 and to silo no. 2. 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.
Each of the cement silo vents shall be adequately enclosed and vented to a fabric filter/baghouse. The enclosures shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the point(s) of capture.
- The weigh hopper shall be enclosed within a building. The building enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.
- The permittee shall employ the following reasonably available control measures for the above-identified concrete batching operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:
The concrete batching weigh hopper shall be adequately enclosed and the enclosure shall be sufficient so as to eliminate at all times visible emission of fugitive dust.
The sand/aggregate weigh hopper transfer conveyor discharge to the concrete batching weigh hopper shall be enclosed and vented to a fabric filter/baghouse. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point(s) of capture.
- 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 permittee shall employ the following reasonably available control measures for the above-identified mix-truck loading operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements:
The point at which the transit mix truck is loaded shall be adequately 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 (shroud) so as to minimize or eliminate visible emissions of fugitive dust from this operation.
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 permittee shall regularly maintain the baghouse and fabric filter control equipment associated with this emissions unit in accordance with manufacturers recommendations. Maintenance shall include regular repair

and/or replacement of filters so as to maximize the particulate collection efficiency of this dust control system.

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations on a daily basis.
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
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 operation 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:
 - the date and reason any required inspection was not performed;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - the dates the control measure(s) was (were) implemented; and
 - on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.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.
5. The permittee shall maintain records of the amounts of sand, aggregate, and cement processed at this plant so as to be able to determine the actual amount of fugitive dust emissions generated over any annual period. The permittee shall also maintain records of the gross yards (or tonnage) of concrete produced and transported from the facility on a monthly basis for the purpose of determining the annual amount of fugitive dust emitted from this emissions unit. These records shall be kept at the facility and shall be made available for review by Ohio EPA personnel upon request.
6. The permittee shall inspect the baghouse fabric filter control system serving both the cement silo and the batching operation at least once per week for the purpose of determining the need to maintain, repair, and/or replace any of the filters in the system or any portion of the system electrical controls. A broken or severely worn filter, or worn electrical control components, shall be replaced/repared immediately so as to prevent unnecessary emissions of fugitive dust from this emissions unit. Records of inspections, repairs, and maintenance to this emissions control system shall be noted in a facility log.
7. The permittee shall maintain monthly records of the operating hours for this emission unit.
8. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
9. The permittee shall inspect the shroud and chute used to load the sand/aggregate/cement mixture into the concrete mix-trucks on a weekly basis to determine if these devices adequately minimize fugitive dust emissions which arise during the loading of the mix-trucks. If either the shroud or the chute is excessively worn, they should be replaced immediately so as to minimize fugitive dust emissions from this emissions unit. The results of this inspection and any maintenance which is performed as a result of this inspection should be noted in a facility log.

D. Reporting Requirements

1. The permittee shall submit annual reports of the total operating hours for this emissions unit. These reports shall be submitted by January 31 of each year to the Director (District Office or Local Air Agency).
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit deviation reports that identify any of the following occurrences:
 - each day or week during which an inspection was not performed by the required frequency; and
 - each instance when a control measure, repair, or maintenance function that was to be performed as a result of an inspection, was not implemented.
4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance Methods

Compliance with the emission limitation(s) in section A of these terms and conditions shall be determined in accordance with the following method(s):

Emission limitation:
7.53 pounds of particulate matter per hour

Based on application data, a maximum hourly design production capacity for each of the four concrete plant operations is listed below, along with the appropriate uncontrolled particulate emission factor from the AP-42, 5th edition, Table 11.12-2 (1/95):

Applicable Compliance Method:

Compliance shall be determined by totaling the following products:

i. Sand and aggregate transfer to elevated bin:

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.029 pounds per ton. The resulting uncontrolled emissions rate, 17.69 pounds per hour, is then multiplied by an enclosure factor of 85% (1 - 0.85), resulting in a controlled emission rate of 2.65 pounds per hour.

ii. Cement unloading to elevated storage silo no. 1 (pneumatic):

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.27 pounds per ton. The resulting uncontrolled emission rate, 164.7 pounds per hour, is then multiplied by a fabric filter/baghouse control factor of 99% (1 - 0.99), resulting in a controlled emission rate of 1.65 pounds per hour.

iii. Cement unloading to elevated storage silo no. 2 (pneumatic):

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.27 pounds per ton. The resulting uncontrolled emission rate, 164.7 pounds per hour, is then multiplied by a fabric filter/baghouse control factor of 99% (1 - 0.99), resulting in a controlled emission rate of 1.65 pounds per hour.

iv. Weigh hopper loading:

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.02 pounds per ton. The resulting uncontrolled emission rate, 12.2 pounds per hour, is then multiplied by a fabric filter/baghouse and enclosure control factor of 90% (1-0.90), resulting in a controlled emission rate of 1.22 pounds per hour.

v. Mixer loading (central mix):

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.04 pounds per ton. The resulting uncontrolled emission rate of 24.4 pounds per hour, is then multiplied by a fabric filter/baghouse control factor of 99% (1-0.99), resulting in a controlled emission rate of 0.24 pounds per hour.

vi. Mixer loading (transit mix):

The maximum hourly production rate of 610 tons per hour, is multiplied by the AP-42 emission factor, 0.02 pounds per ton. The resulting uncontrolled emission rate of 12.2 pounds per hour, is then multiplied by a fabric filter/baghouse control factor of 99% (1-0.99), resulting in a controlled emission rate of 0.12 pounds per hour.

The pound per hour emission rates for each of the four areas are summed.

Emission limitation:

32.98 tons of particulate matter per year

Applicable Compliance Method:

The 32.98 tons per year emissions limitation was developed by multiplying the 7.53 pounds per hour emissions limitation by a maximum annual operating schedule of 8760 hours per year. Therefore compliance shall be based upon the 12-month summation of the number of operating hours times the 7.53 pounds per hour emissions limitation, divided by 2,000 pounds per ton.

Emission Limitation:

20 percent opacity as a 3-minute average

Applicable Compliance Method:

Compliance with the twenty (20) percent opacity visible emissions limitation, as stipulated in OAC rule 3745-17-07(B)(1), for the transfer of sand and aggregate to elevated bins, cement silo loading operations, the concrete batching operation, and the mix-truck loading operation(s) identified above shall be determined in accordance with Test Method 9 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)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Emission Limitation:

0.030 grain of particulate per dry standard cubic foot of exhaust gases

Applicable Compliance Method:

Compliance with the particulate emissions limitation of this permit shall be based on the maximum flow rate of the control device (500 scfm) times the allowable emissions rate of 0.030 grains/dscf particulate matter [per OAC rule 3745-17-08(B)(3)(b)] and the maximum operating schedule of 8760 hours per year. If required pursuant to OAC rule 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 rule 3745-17-03(B)(7).

Emission Limitation:

no visible emissions

Applicable Compliance Method:

Compliance with the "no visible emissions" limitation, as stipulated in OAC rule 3745-17-08(B)(3)(b), for both the cement silo loading operation(s) and the concrete batching operations identified above 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.

F. Miscellaneous Requirements

1. PTI 16-02023, as issued on March 22, 2000, shall supersede all the air pollution control requirements for emissions unit P901 only, previously contained in permit to install number 16-1689, as issued on October 22,

1997.

2. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
3. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.