

Facility ID: 0448970006 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: 0448970006 Emissions Unit ID: P903 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>
P903 - All Ohio ready Mix - Portable Paving Plant 484 - 220 yd per hour capacity:		
Transfer of Sand and Aggregate to bins, cement transfer to silos, silo vents	OAC rule 3745-31-05(A)(3) (PTI 04-01067, modified June 14, 2007)	Particulate emissions (PE) shall not exceed 5.5 pounds per hour or 1.25 tons per year.
Transfer of sand and aggregate to bins	OAC rule 3745-17-07(B)(1)	See Sections II.A.2.a and b. Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
Cement transfer to silos and silo vents	OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-31-05(A)(3) (PTI 04-01067, modified June 14, 2007)	See Section II.A.2.c. See Section II.A.2.c. No emissions of PE from any transfer operations to the silos.
		No visible emissions of fugitive dust from any silo vents.
		The combined emissions of PE from material transfer to elevated bins and the silo vents shall not exceed 0.02 pound per hour or 0.004 ton per year.
	OAC rule 3745-17-07(B)(1)	See Sections II.A.2.a and b. No visible emissions of fugitive dust from any transfer operations to the silos.
	OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-17-07(A)(1)	See Section II.A.2.c. See Section II.A.2.c. Visible emissions of fugitive dust shall not exceed 20% opacity as a six-minute average.

**2. Additional Terms and Conditions**

- (a) The permittee shall employ the following best available control measures for cement transfer operations to elevated bins, silos and silo vents for the purpose of ensuring compliance with the above-mentioned applicable requirements:

Transfer of Sand and Aggregate to Bins, Cement Transfer to Silos, Silo Vents

The permittee shall maintain sufficient moisture in the sand and aggregate so as to comply with the visible emission requirements during transfer. Drop heights shall be minimized during loading of conveyors.

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

The cement silos vents shall be adequately enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the points of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.30 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is greater.

These control systems shall be operated at all times during cement unloading and these controls shall be sufficient to minimize or eliminate visible emissions of fugitive dust from this emissions unit. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The hourly emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control 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.

The information in 3.d shall be kept separately for each material handling operation identified above, and shall be updated in a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall record the number of yards of concrete production on an annual basis.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the pneumatic conveying of cement or the transfer of sand and aggregate to the elevated bins, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive dust emissions. These reports shall be submitted to the City of Toledo, Division of Environmental Services and the appropriate field office (having jurisdiction over the new site) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
  - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
    - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;

- ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
  - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
  - iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgement, the proposed site is acceptable under OAC rule 3745-15-07.
- b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
  - i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
  - ii. the portable emissions unit is equipped with best available technology;
  - iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
  - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
  - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
  - vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
  - vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- 3. The permittee shall submit deviation (excursion) reports that identify any exceedance of the maximum production rate in any calendar year. Each report shall be submitted within 30 days after the deviation occurs.
- 4. The permittee shall submit year-end summary reports by January 31 and each report shall cover the previous calendar year.

#### 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:  
  
Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average for the transfer of sand and aggregate to bins.  
  
Applicable Compliance Method:  
  
Compliance shall be determined through visible emission observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(3).  
Emission Limitation:  
  
No visible emissions during the transfer of cement to the silos.  
  
Applicable Compliance Method:  
  
Compliance with the visible emission limitation for the transfer of cement to the silos shall be determined in accordance with Method 22 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, 1997.  
Emission Limitation:  
  
No visible emissions during cement unloading operations and from the silo vents.  
  
Applicable Compliance Method:  
  
If required, compliance with the visible emission limitation for the fabric filters on the weigh hopper shall be determined in accordance with method 22 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, 1997 and the procedures specified in OAC rule 3745-17-03(B)(4).  
Emission Limitation:  
  
PE shall not exceed 5.5 pounds per hour from the material transfer to elevated bins.

## Applicable Compliance Method:

This emission limitation was based on calculations performed as follows: multiply the emission factor for aggregate transfer and sand transfer (AP-42 Table 11.12-2, dated 11/06 lists emission factors for the transfer of aggregate to elevated storage as 0.0069 lb PE/ton and for the transfer of sand to elevated storage as 0.0021 lb PE/ton) by the maximum throughput of 443 tons/hr adjusted for 1865 lb aggregate/cu yd concrete and 1428 lb sand/cu yd concrete multiplied by a 50% control efficiency (1-0.5) for wet material:

$$\text{PTE (AGGREGATE)} = [220 \text{ cu yd/hr} * 1865 \text{ lb aggregate/cu yd concrete}/2,000 \text{ lb/ton}] * (0.0069 \text{ lb PE/ton}) (1-0.5) = 0.71 \text{ lb PE/hr aggregate}$$

$$\text{PTE (SAND)} = [220 \text{ cu yd/hr} * 1428 \text{ lb sand/cu yd concrete}/2,000 \text{ lb/ton}] * (0.0021 \text{ lb PE/ton}) (1-0.5) = 0.16 \text{ lb PE/hr sand}$$

$$\text{PTE (TOTAL)} = 0.71 \text{ lb/hr} + 0.16 \text{ lb/hr} = 0.87 \text{ lb/hr}$$

Emission Limitation:

PE shall not exceed 1.25 tons per year from the material transfer to elevated bins.

## Applicable Compliance Method

This emission limitation was based on calculations performed as follows: base the permit allowable emissions on the maximum annual production rate of 100,000 cu yd/yr divided by 220 cu yd/hr adjusted for 1865 lb aggregate/cu yd concrete and 1428 lb sand/cu yd concrete divided by 2,000 lbs/ton multiplied by the AP-42 emission factor (aggregate 0.0069 lb/ton and sand 0.0021 lb/ton) divided by 2,000 lb/ton:

$$\text{Allowable (Aggregate)} = ((100,000 \text{ cu yd/yr} * 1865 \text{ lb aggregate/cu yd concrete}) / 2000 \text{ lb/ton})(0.0069 \text{ lb PE/ton}) / (2000 \text{ lb/t}) = 0.32 \text{ tpy PE}$$

$$\text{Allowable (Sand)} = ((100,000 \text{ cu yd/yr} * 1428 \text{ lb sand/cu yd concrete}) / 2000 \text{ lb/ton})(0.0021 \text{ lb PE/ton}) / (2000 \text{ lb/t}) = 0.07 \text{ tpy PE}$$

$$\text{Allowable (Total)} = 0.39 \text{ tpy PE}$$

Emission Limitation:

PE shall not exceed 0.02 pound per hour from the combined total of pneumatic cement transfer and for silo vents.

## Applicable Compliance Method:

This emission limitation was based on calculations performed as follows: multiply the emission factor for pneumatic cement transfer, which includes silo vent emissions (AP-42 Section 11.12-2, dated 11/06) as 0.00099 lb PE/ton multiplied by the maximum throughput of 443 tons/hr multiplied by a baghouse control efficiency of 99.9 (1-0.999):

$$\text{PTE} = 443 \text{ tons/hr} * 0.00099 \text{ lb PE/ton} * 1-0.999 = 0.00044 \text{ lb PE/hr}$$

Emission Limitation:

PE shall not exceed 0.004 ton per year from the combined total of pneumatic cement transfer and for silo vents.

## Applicable Compliance Method

This emission limitation was based on calculations performed as follows: base the permit allowable emissions on the maximum annual production rate of 100,000 cu yd/yr divided by 220 cu yd/hr divided by 2,000 lbs/ton multiplied by 0.02 lb PE/hr:

$$\text{Allowable} = (100,000 \text{ cu yd/yr} * 4024 \text{ lb/cu yd}) / 2000 \text{ lb/ton} (0.00099 \text{ lb PE/ton}) / (2000 \text{ lb/t}) = 0.0001 \text{ tpy PE}$$

Emission Limitation:

The fabric filter shall achieve an outlet emissions rate of not greater than 0.30 grains of particulate emission per dry standard cubic foot of exhaust gases.

## Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10). Alternate USEPA approved test methods may be used with prior approval from the Ohio EPA.

F. **Miscellaneous Requirements**

1. None

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Facility ID: 0448970006 Emissions Unit ID: P904 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>
P904 - All Ohio Ready Mix - Portable Paving Plant 484 - 220 yd/hr per hour capacity: Weigh Hopper Loading, loading of transit mix trucks	OAC rule 3745-31-05(A)(3) (PTI 04-01067, modified June 14, 2007)	Particulate emissions (PE) shall not exceed 1.76 pounds per hour or 0.4 ton per year.  Visible emissions of fugitive dust shall not exceed 10% opacity as a three-minute average during sand and stone loading.  No visible emissions of fugitive dust from the fabric filter during cement loading to the weigh hopper.  See Section II.A.2.a.
Loading of Transit Mix Trucks	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B), (B)(3) OAC rule 3745-31-05(A)(3) (PTI 04-01067, modified June 14, 2007)	See Section II.A.2.b. See Section II.A.2.b. See Section II.A.2.b. PE shall not exceed 93.0 pounds per hour or 21.1 tons per year.  Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average for loading of transit mix trucks.  See Section II.A.2.a.
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B), (B)(3)	See Section II.A.2.b. See Section II.A.2.b.

**2. Additional Terms and Conditions**

- (a) The permittee shall employ the following best available control measures for each process for the purpose of ensuring compliance with the above-mentioned applicable requirements:

Weigh Hopper Loading of Cement, Sand and Aggregate, Loading of Transit Mix Trucks

The permittee shall adequately enclose the cement weight hopper and vent to a fabric filter. The enclosure shall be sufficient to eliminate, at all times, visible emissions of fugitive dust at the point of capture. The fabric filter shall achieve an outlet emissions rate of not greater than 0.30 grains of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is greater.

The aggregate and sand to be loaded into the weigh-hopper and conveyor shall have a moisture content sufficient so as to comply with the visible emission requirements.

Transit mix trucks shall be loaded using an adjustable chute and/or a flexible booth along water spray during raw material loading. The equipment shall be operated so to comply with the visible emission requirements.

These control systems shall be operated at all times that trucks are being loaded and these controls shall be sufficient to minimize or eliminate visible emissions of fugitive dust from this emissions unit. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The hourly emission limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

1. None

**C. Monitoring and/or Record Keeping Requirements**

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) 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:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

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 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;
  - 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.

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 quarter.

5. The permittee shall record the number of yards of concrete production on an annual basis.

**D. Reporting Requirements**

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the pneumatic conveying of cement or the transfer of sand and aggregate to the elevated bins, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate emissions and/or visible fugitive dust emissions. These reports shall be submitted to the City of Toledo, Division of Environmental Services and the appropriate field office (having jurisdiction over the new site) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
  - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
    - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
    - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
    - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
    - iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgement, the proposed site is acceptable under OAC rule 3745-15-07.
  - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
    - i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
    - ii. the portable emissions unit is equipped with best available technology;
    - iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
    - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
    - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is

located;

- vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- 3. The permittee shall submit deviation (excursion) reports that identify any exceedance of the maximum production rate in any calendar year. Each report shall be submitted within 30 days after the deviation occurs.
- 4. The permittee shall submit year-end summary reports by January 31 and each report shall cover the previous calendar year.

#### 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:

Visible emissions of fugitive dust shall not exceed 10% opacity as a three-minute average for sand and stone loading into the weigh hopper.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for sand and stone loading into the weigh hopper shall be determined through visible emission observations performed in accordance with 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(B)(3).

Emission Limitation:

No visible emissions from the fabric filters on the weigh hopper serving this emissions unit.

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the fabric filters on the weigh hopper shall be determined in accordance with method 22 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, 1997 and the procedures specified in OAC rule 3745-17-03(B)(4).

Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average for all truck loading operations.

Applicable Compliance Method:

If required, compliance with the emission limitation for roadways and parking areas 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) and (B)(4)(b) of OAC rule 3745-17-03.

Emission Limitation:

PE shall not exceed 1.76 pounds per hour for weigh hopper loading.

Applicable Compliance Method:

This emission limitation was based on calculations performed as follows: multiply the emission factor for weigh hopper loading (AP-42 Section 11.12-2, dated 6/06) lists emission factors for weigh hopper loading as 0.0051 lb PE/ton) by the maximum throughput of 220 cu yd concrete/hr adjusted for 1865 lb aggregate/cu yd concrete and 1428 lb sand/cu yd concrete divided by 2,000 lb/ton multiplied by a baghouse control efficiency of 80% (1-0.8):

$$\text{PTE (AGGREGATE)} = [220 \text{ cu yd/hr} * 1865 \text{ lb aggregate/cu yd concrete}/2,000 \text{ lb/ton}] * (0.0051 \text{ lb PE/ton}) (1-0.8) = 0.21 \text{ lb PE/hr AGGREGATE}$$

$$\text{PTE (SAND)} = [220 \text{ cu yd/hr} * 1428 \text{ lb sand/cu yd concrete}/2,000 \text{ lb/ton}] * (0.0051 \text{ lb PE/ton}) (1-0.8) = 0.16 \text{ lb PE/hr SAND}$$

$$\text{PTE (TOTAL)} = 0.21 \text{ lb/hr} + 0.16 \text{ lb/hr} = 0.37 \text{ lb/hr}$$

Emission Limitation:

PE shall not exceed 0.4 ton per year for weigh hopper loading.

Applicable Compliance Method

This emission limitation was based on calculations performed as follows: base the permit allowable emissions on the maximum annual production rate of 100,000 cu yd/yr adjusted for 1865 lb aggregate/cu yd concrete and 1428 lb sand/cu yd concrete divided by 2,000 lbs/ton multiplied by 0.0051 lb PE/ton multiplied by an 80% control efficiency (1-0.8):

Allowable (Aggregate) =  $((100,000 \text{ cu yd/yr} * 1865 \text{ lb aggregate/cu yd concrete}) / 2000 \text{ lb/ton})(0.0051 \text{ lb PE/ton}) / (2000 \text{ lb / t}) * (1-0.8) = 0.05 \text{ tpy PE}$

Allowable (Sand) =  $((100,000 \text{ cu yd/yr} * 1428 \text{ lb sand/cu yd concrete}) / 2000 \text{ lb/ton})(0.0051 \text{ lb PE/ton}) / (2000 \text{ lb / t}) * (1-0.8) = 0.04 \text{ tpy PE}$

Allowable (Total) = 0.05 tpy PE + 0.04 tpy PE = 0.09 tpy PE  
Emission Limitation:

PE shall not exceed 93.0 pounds per hour for loading of transit mix trucks.

Applicable Compliance Method:

This emission limitation was based on calculations performed as follows: multiply the emission factor for loading of transit mix trucks (AP-42 Table 11.12, dated 10/01, 0.21 lb PE/ton) by the maximum throughput of 220 cuyd/hr:

$220 \text{ cuyd/hr} * 4024 \text{ lb/cuyd} * 1 \text{ ton}/2000 \text{ lb} * 0.21 \text{ lb PE/ton} = 93.0 \text{ lb PE/hr}$   
Emission Limitation:

PE shall not exceed 21.1 tons per year for loading of transit mix trucks.

Applicable Compliance Method

This emission limitation was based on calculations performed as follows: base the permit allowable emissions on the maximum annual production rate of 100,000 cu yd/yr divided by 220 cu yd/hr divided by 2,000 lbs/ton multiplied by 93.0 lb PE/hr:

Allowable =  $((100,000 \text{ cu yd/yr} / 220 \text{ yd/hr}) / 2000 \text{ lb/t}) * (93.0 \text{ lb PE/hr}) = 21.1 \text{ tpy PE}$   
Emission Limitation:

Each fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance by emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

**F. Miscellaneous Requirements**

1. None