

Facility ID: 0634000070 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: 0634000070 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 roads and parking           | OAC rule 3745-31-05<br>See F.        | 0.05 TPY PM                                                                                                                                                                            |
|                                               | OAC rule 3745-17-07(B)(4)<br>See F.  | There shall be no visible particulate emissions from any paved roadways or parking area except for a period of time not to exceed 6 minutes during any 60-minute observation period.   |
|                                               | OAC rule 3745-17-07(B)(5)<br>See F.  | There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed 13 minutes during any 60-minute observation period. |
|                                               | OAC rule 3745-17-08(B)<br>See F.     | See A.2. below.                                                                                                                                                                        |

**2. Additional Terms and Conditions**

- (a) The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: broom. The paved surfaces shall be swept, on an as-needed basis. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust. The permittee shall promptly and properly remove and dispose of any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., to minimize or prevent resuspension. The permittee shall post and enforce a maximum speed limit of 10 miles per hour on the property. The permittee shall ensure that all open-bodied vehicles transporting materials likely to become airborne are covered at all times. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Water shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: water truck. The dust suppressant shall be applied to the unpaved surfaces, on an as-needed basis. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

**B. Operational Restrictions**

None

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

1. The permittee shall maintain monthly records of the following for the paved roadways and parking areas:
  - a. The date the paved surfaces were swept.
  - b. The portions of the paved surfaces that were swept.
  - c. The name of the equipment operator responsible for the sweeping.
2. The permittee shall maintain monthly records of the following for the unpaved roadways and parking areas:
  - a. The date dust suppressants were applied to the unpaved surfaces.
  - b. The portions of unpaved surfaces that were treated with dust suppressants.
  - c. The application rate of water and any chemical additives (gallons of each per square yard).
  - d. The name of the equipment operator responsible for the application of the dust suppressants.

**D. Reporting Requirements**

None

**E. Testing Requirements**

1. Compliance with the visible particulate emission limits shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(4).
2. Compliance with the PM emission limit in section A. 1. of these terms and conditions shall be demonstrated by the use of emission factors found in US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42.

Emission factors:

Unpaved roads - 2.35 lbs/vehicle mile traveled.

Paved roads - 0.000015 lb/vehicle mile traveled.

Multiply the emission factor by the vehicle miles traveled per year = lb/yr.

Unpaved roads - Multiply the lb/yr by (1-.80) for watering = lb/yr controlled.

Divide the lb/yr controlled by 2,000 lbs/ton = TPY controlled.

Paved roads - Divide the lb/yr by 2,000 lbs/ton = TPY.

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:  
Part II: Special Terms and Conditions, A-D.

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**Facility ID: 0634000070 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<br>See F.        | 1.55 TPY PM                                              |

OAC rule 3745-17-07(B)(6)  
See F.

There shall be no visible particulate emissions from any storage pile except for a period of time not to exceed 13 minutes during any 60-minute observation period.

OAC rule 3745-17-08(B)  
See F.

See A.2. below.

2. **Additional Terms and Conditions**

- (a) The permittee shall maintain the stock pile of aggregate near the building's wall in order to provide an effective wind break. The aggregate storage pile shall be watered or covered should fugitive dust be generated due to wind erosion in order to minimize or eliminate visible emissions of fugitive dust. The permittee shall unload only sand and stone that possess adequate moisture content to minimize or eliminate visible emissions of fugitive dust. The truck shall dump the damp aggregate onto the pile in a manner that will reduce the drop height and minimize or eliminate visible emissions of fugitive dust. Dry dusty aggregate shall be wetted prior to dumping onto the stock pile. The permittee shall load-out only sand and stone that possess sufficient moisture content to minimize or eliminate visible emissions of fugitive dust when loading out from the pile. The front-end loader operator shall be instructed and required not to overload the bucket and to reduce the bucket drop height in order to minimize or eliminate visible emissions of fugitive dust.

B. **Operational Restrictions**

None

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

None

D. **Reporting Requirements**

None

E. **Testing Requirements**

- 1. Compliance with the visible particulate emission limit shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(4).

- 2. Compliance with the PM emission limit in section A. 1. of these terms and conditions shall be demonstrated by the use of emission factors found in Ohio EPA publication titled Reasonably Available Control Measures for Fugitive Dust Sources.

Emission factors:

Load-in = 0.04 lb/ton.  
Wind erosion = 0.11 lb/ton.  
Load-out = 0.05 lb/ton.

Multiply the ton/yr by the emission factor = lb/yr.

Multiply the lb/yr by the control efficiency = lb/yr (controlled).

Control Efficiencies:  
Reduced drop height - 75%  
Wind break - 50%  
Water - 75%

Divide the ton/yr (controlled) by 2,000 lbs/ton = TPY (controlled).

F. **Miscellaneous Requirements**

- 1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:

Part II: Special Terms and Conditions, A-D.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0634000070 Emissions Unit ID: F004 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>                                                                              |
|------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Material handling, transferring and conveying with fabric filter | OAC rule 3745-31-05<br>See F.        | Particulate matter (PM) emissions shall not exceed 0.030 gr/dscf of exhaust gases from fabric filter outlet.                          |
|                                                                  | OAC rule 3745-17-07(A)(1)<br>See F.  | 0.02 lb PM/hr<br>Visible PM emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as specified by rule. |
|                                                                  | OAC rule 3745-17-07(B)<br>See F.     | Fugitive visible PM emissions shall not exceed 20% opacity as a 3-minute average.                                                     |
|                                                                  | OAC rule 3745-17-08(B)<br>See F.     | See A.2. below.                                                                                                                       |

**2. Additional Terms and Conditions**

- (a) The permittee shall maintain and employ the pneumatic unloading system for the unloading of the bulk cement trailer such that all dust shall be vented through a fabric filter in order to minimize or eliminate visible emissions of fugitive dust.  
The permittee shall maintain and employ all pipes and fittings in a leak tight manner in order to minimize or eliminate visible emissions of fugitive dust.  
The permittee shall ensure that the cement silo is adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture.  
The permittee shall minimize the drop height of the front-end bucket to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.  
The permittee shall ensure that the sand and aggregate loaded into the elevated bins have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins.

**B. Operational Restrictions**

None

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

1. The permittee shall perform daily checks for any visible particulate emissions from the fabric filter exhaust while this emissions unit is in operation. The presence or absence of any visible emissions from the fabric filter exhaust shall be noted in an operations log. If any visible emissions are observed, corrective action 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 an annual report which (a) identifies all days during which any visible particulate emissions were observed from the fabric filter exhaust and (b) describes the corrective actions taken to eliminate the visible particulate emissions. This report shall be submitted by February 15 of each year.

**E. Testing Requirements**

1. Emission Limitation - 0.030 gr/dscf  
  
Applicable compliance method -  
If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).
2. Compliance with the PM emission limit in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in Ohio EPA publication titled Reasonably Available Control Measures for Fugitive Dust Sources.  
  
Emission factor: Control efficiency = 99%  
0.24 lb/ton  
  
Unloading:  
 $30 \text{ tons/day} \times 0.24 \text{ lb/ton} = 7.2 \text{ lbs/day} \times (1 - .99) = 0.072 \text{ lb/day}$   
  
Silo vent:  
 $30 \text{ tons/day} \times 0.24 \text{ lb/ton} = 7.2 \text{ lbs/day} \times (1 - .99) = 0.072 \text{ lb/day}$   
  
Total = 0.144 lb/day  
  
 $0.144 \text{ lb/day} \text{ divided by } 8 \text{ hrs/day} = 0.02 \text{ lb/hr.}$
3. Compliance with the visible particulate emission limits found in section A.1. of these terms and conditions shall be determined in accordance with procedures and test methods specified in OAC rule 3745-17-03(B)(1).
4. Compliance with the fugitive visible particulate emission limits found in section A.1. of these terms and conditions shall be determined in accordance with procedures and test methods specified in OAC rule 3745-17-03(B)(3).

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:

Part II: Special Terms and Conditions, A-D.

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Facility ID: 0634000070 Emissions Unit ID: F005 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>                                                        |
|-----------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Pneumatic silo filling and tanker loading with cartridge filter | OAC rule 3745-31-05<br>See F.        | Particulate matter (PM) emissions shall not exceed 0.020 gr/dscf of exhaust gases from cartridge filter outlet. |
|                                                                 |                                      | Visible PM emissions shall not exceed 10% opacity as a 6-minute average.                                        |
|                                                                 |                                      | See A.2.d below.                                                                                                |
|                                                                 | OAC rule 3745-17-07(A)(1)<br>See F.  | Less stringent than above.                                                                                      |
|                                                                 | OAC rule 3745-17-08(B)<br>See F.     | See A.2. below.                                                                                                 |

**2. Additional Terms and Conditions**

- (a) The permittee shall ensure that the cement blend shall be transferred pneumatically to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement blend emanating from the conveying system shall be cause for the immediate halt of the loading process until the situation is corrected. The permittee shall ensure that the cement blend silo is adequately enclosed and vented to a cartridge filter. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture. The permittee shall ensure that the cement blend loading chute shall be adequately enclosed and exhausted to the cartridge filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture. The permittee shall not simultaneously pneumatically load the storage silo and gravity load the bulk tanker.

**B. Operational Restrictions**

None

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

1. The permittee shall maintain daily records of the following:
  - a. type of product loaded;
  - b. time tanker loading started;
  - c. time tanker loading stopped; and
  - d. quantity of product loaded (tons).
2. The permittee shall perform daily checks for any visible particulate emissions from the cartridge filter exhaust while this emissions unit is in operation. The presence or absence of any visible emissions from the cartridge filter exhaust shall be noted in an operations log. If any visible emissions are observed, corrective action 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 an annual report which (a) identifies all days during which any visible particulate emissions were observed from the cartridge filter exhaust and (b) describes the corrective action taken to

eliminate the visible particulate emissions. This report shall be submitted by February 15 of each year.

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation in section A.1. of these terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(3).
2. Emission Limitation - 0.020 gr/dscf  
 Applicable compliance method -  
 If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-1295 as issued on 9-14-94:  
 Part II: Special Terms and Conditions, A-D.

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Facility ID: 0634000070 Emissions Unit ID: F006 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>                                                        |
|-------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Mixer #1 to storage silos and truck loading with cartridge filter | OAC rule 3745-31-05<br>See F.        | Particulate matter (PM) emissions shall not exceed 0.020 gr/dscf of exhaust gases from cartridge filter outlet. |
|                                                                   | OAC rule 3745 17-07(A)(1)<br>See F.  | Visible emissions shall not exceed 10% opacity as a 6-minute average.                                           |
|                                                                   | OAC rule 3745-17-08(B)<br>See F.     | Less stringent than above.                                                                                      |
|                                                                   |                                      | See A.2. below.                                                                                                 |

**2. Additional Terms and Conditions**

- (a) The permittee shall ensure that the cement blend shall be transferred pneumatically to storage. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust. Any visible emissions of cement blend emanating from the conveying system shall be cause for the immediate halt of the loading process until the situation is corrected. The permittee shall ensure that the cement blend silo is adequately enclosed and vented to a cartridge filter. The enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture. The permittee shall ensure that the cement blend loading chute shall be adequately enclosed and exhausted to the cartridge filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.

**B. Operational Restrictions**

None

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

1. The permittee shall maintain daily records of the following:
  - a. type of product loaded;
  - b. time truck loading started;

- c. time truck loading stopped; and
- d. quantity of product loaded (tons).
- 2. The permittee shall perform daily checks for any visible particulate emissions from the cartridge filter exhaust while this emissions unit is in operation. The presence or absence of any visible emissions from the cartridge filter exhaust shall be noted in an operations log. If any visible emissions are observed, corrective action 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 an annual report which (a) identifies all days during which any visible particulate emissions were observed from the cartridge filter exhaust and (b) describes the corrective action taken to eliminate the visible particulate emissions. This report shall be submitted by February 15 of each year.
- E. **Testing Requirements**
  - 1. Compliance with the visible particulate emission limitation in section A.1. of these terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(3).
  - 2. Emission Limitation 0.020 gr/dscf  
 Applicable compliance method -  
 If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).
- F. **Miscellaneous Requirements**
  - 1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-1326 as issued on 12-7-94:  
 Part II: Special Terms and Conditions, A-D.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0634000070 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>                                                                           |
|-----------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Product bagging station with fabric filter    | OAC rule 3745-31-05<br>See F.        | Particulate matter (PM) emissions shall not exceed 0.020 gr/dscf of exhaust gases from fabric filter outlet.<br><br>0.060 lb PM/hr |
|                                               | OAC rule 3745-17-07(A)<br>See F.     | No visible PM emissions from the fabric filter exhaust.<br>Less stringent than above.                                              |
|                                               | OAC rule 3745-17-08(B)<br>See F.     | See A.2. below.                                                                                                                    |

- 2. **Additional Terms and Conditions**
  - (a) The permittee shall maintain and employ the pneumatic bagging station such that all piping/fittings and enclosures are leak tight and close fitting in order to capture and contain fugitive dust to allow all particulate matter to be exhausted to a fabric filter control device.

**B. Operational Restrictions**

None

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

1. The permittee shall perform daily checks for any visible particulate emissions from the cartridge filter exhaust while this emissions unit is in operation. The presence or absence of any visible emissions from the cartridge filter exhaust shall be noted in an operations log. If any visible emissions are observed, corrective action 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 an annual report which (a) identifies all days during which any visible particulate emissions were observed from the cartridge filter exhaust and (b) describes the corrective action taken to eliminate the visible particulate emissions. This report shall be submitted by February 15 of each year.
- E. Testing Requirements**
1. Compliance with the mass emission limit in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in Ohio EPA publication titled Reasonably Available Control Measures for Fugitive Dust Sources.  
  
Emission factor : 0.24 lb/ton  
  
ton/hr (cement) x 0.24 lb/ton x (1-.95) control efficiency = lb/hr.
  2. Emission Limitation - 0.020 gr/dscf  
  
Applicable compliance method -  
If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).
  3. Compliance with the visible particulate emission limitation in section A.1. of these terms and conditions shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(4) using the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22.
- F. Miscellaneous Requirements**
1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:  
  
Part II: Special Terms and Conditions, A-D.

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Facility ID: 0634000070 Emissions Unit ID: P902 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>                                                                   |
|--------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Aggregate handling and #2 fuel oil-fired rotary dryer with fabric filter | OAC rule 3745-31-05<br>See F.        | 2.42 lbs PM/hr<br>7.3 lbs SO2/hr<br>1.4 lbs VOC/hr<br>1.9 lbs CO/hr<br>1.8 lbs NOx/hr                                      |
|                                                                          |                                      | Particulate matter (PM) emissions shall not exceed 0.030 gr/dscf of exhaust gases from the fabric filter outlet.           |
|                                                                          | OAC rule 3745-17-07(A)<br>See F.     | Visible PM emissions from the dryer stack shall not exceed 20% opacity as a 6-minute average, except as specified by rule. |
|                                                                          | OAC rule 3745-17-07(B)               | Fugitive visible PM emissions shall not exceed 20% opacity as a 3-minute average.                                          |

OAC rule 3745-17-08(B) See A.2. below.  
 See F.  
 OAC rule 3745-18-06(D)(2) Less stringent than above.  
 See F.

2. **Additional Terms and Conditions**

- (a) The permittee shall use only # 2 fuel oil containing no more than 0.5% sulfur by weight or other cleaner burning fuel.  
 The permittee shall limit the dryer throughput to 35.87 tons/hr or less.  
 The permittee shall maintain a balance draft through the dryer to ensure that all dust and fumes are collected and ducted to the fabric filter in order to minimize or eliminate visible emissions of fugitive dust.  
 The permittee shall instruct and require the front-end loader operator to reduce the drop height of the bucket to the maximum extent possible and to unload only aggregate into the rotary dryer's receiving bin that possesses sufficient moisture content to minimize or eliminate visible emissions of fugitive dust.  
 All dry dusty aggregate shall be adequately wetted prior to unloading in order to minimize or eliminate visible emissions of fugitive dust.  
 The permittee shall maintain and employ all transfer points in a dust free manner by either ensuring that adequate moisture content and enclosures are maintained and employed or venting to a fabric filter that has sufficient capacity to minimize or eliminate the visible emissions of fugitive dust at the point of capture.  
 The permittee shall maintain and employ all covering points in a dust free manner by either ensuring that adequate moisture content and enclosures are maintained and employed or venting to a fabric filter that has sufficient capacity to minimize or eliminate visible emissions of fugitive dust at the point of capture.

B. **Operational Restrictions**

None

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

- 1. The permittee shall maintain daily records of the following:
  - a. hours dryer was operated,
  - b. quantity of materials dried,
  - c. quantity of oil used (gallons), and
  - d. an analysis from the oil supplier providing the type of fuel and sulfur content (percent by weight) for each shipment of oil.

D. **Reporting Requirements**

- 1. The permittee shall notify the Director of any daily record which shows an exceedance of fuel oil sulfur content limit. A copy of each such record shall be submitted within 30 days of the exceedance.

E. **Testing Requirements**

- 1. Compliance with the visible particulate emission limitations in section A.1. of these terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B).
- 2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months of the expiration date of the permit to operate.
  - b. The emission testing shall be conducted to demonstrate compliance with the 0.030 gr/dscf exhaust gas limit and the 2.42 lbs PM/hr limit.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):  
  
 Methods 1-5, 40 CFR Part 60, Appendix A.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time (s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

- 3. Compliance with the mass emission limit of SO<sub>2</sub> in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 page 8.1-15.

Emission factor: 0.2925 lb/ton

0.2925 lb/ton x 50 tons/hr = 7.3 lbs/hr.

- 4. Compliance with the mass emission limit for NOx in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 page 8.1-15.

Emission factor: 0.036 lb/ton  
 0.036 lb/ton x 50 tons/hr = 1.8 lbs/hr.

- 5. Compliance with the mass emission limit for VOC in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 page 8.1-15.

Emission factor: 0.028 lb/ton  
 0.028 lb/ton x 50 tons/hr = 1.4 lbs/hr.

- 6. Compliance with the mass emission limit for CO in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42 page 8.1-15.

Emission factor: 0.038 lb/ton  
 0.038 lb/ton x 50 tons/hr = 1.9 lbs/hr.

**F. Miscellaneous Requirements**

- 1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:

Part II: Special Terms and Conditions, A-D.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 0634000070 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>                          |
|-----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------|
| Pan mixer with fabric filter                  | OAC rule 3745-31-05<br>See F.        | 0.012 lb PM/hr<br><br>No visible emissions from the fabric filter exhaust stack.  |
|                                               | OAC rule 3745-17-07(A)(1)<br>See F.  | Less stringent than above.                                                        |
|                                               | OAC rule 3745 -17-08(B)<br>See F.    | See A.2. below.                                                                   |
| Material handling with fabric filter          | OAC rule 3745-31-05<br>See F.        | Fugitive visible PM emissions shall not exceed 20% opacity as a 3-minute average. |
|                                               | OAC rule 3745-17-07(B)<br>See F.     | Same as above.                                                                    |
|                                               | OAC rule 3745-17-08(B)<br>See F.     | See A.2. below.                                                                   |

**2. Additional Terms and Conditions**

- (a) The permittee shall maintain and employ the pan mixer system such that all particulate matter generated from charging, operating and emptying are confined by enclosures that will minimize or eliminate visible emissions of fugitive dust.

**B. Operational Restrictions**

None

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

1. None

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the visible particulate emission limitation for the fabric filter exhaust stack in section A.1. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(4) the test method and procedures specified in 40 CFR Part 60, Appendix A, Method 22.

2. Compliance with the PM emission limits in section A.1. of these terms and conditions shall be demonstrated by the use of emission factors found in Ohio EPA publication titled Reasonably Available Control Measures for Fugitive Dust Sources.

Emission Factor: 0.04 lb/ton

ton/hr x .04 lb/ton = 1.20 lbs/hr x (1-.99) control efficiency = lb/hr.

3. Compliance with the fugitive visible particulate emission limitation in section A.1. of these terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(3).

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install number 17-969 as issued on 8-7-91:

Part II: Special Terms and Conditions, A-D.