



State of Ohio Environmental Protection Agency

Franklin County

RE: Final Permit to Install

Street
1800 \\
Column

address:

16-1049

Application No: **01-7839**

DATE: **July 8, 1999**

**Anderson Concrete Corporation
William R. Feltz
1315 Woodland Avenue
Columbus, Ohio 43219**

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

Ohio EPA Central District Office



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Application Number: 01-7839

Permit
Title

APS Premise Number: 0125042392

Permit Fee: **\$2800**

Name of Facility: Anderson Concrete Corporation

Person to Contact: William R. Feltz

Address: 1315 Woodland Avenue
Columbus, Ohio 43219

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1315 Woodland Avenue
Columbus, Ohio**

Description of proposed emissions unit(s):

PORTABLE CONCRETE BATCH PLANT #7, AGGREGATE STORAGE PILES, MATERIAL HANDLING, AND UNPAVED ROADWAYS.

Date of Issuance: July 8, 1999

Effective Date:

July 8, 1999

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air

contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental

Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of

Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| PM | 50.56 |

PART II: SPECIAL TERMS AND CONDITIONS

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(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 specified in narrative form following the table.

| Operations, Property, <u>and/or Equipment</u> | Aggregate to Aggregate Storage Bin | Central Loading | Mix | Drum | Material |
|---|--|--------------------|-----|------|----------|
| Portable Central Mix Concrete Batch Plant # 7 - Includes the following equipment: Aggregate Bin with Weigh Hopper, Aggregate Conveyor Belt, Cement and Fly Ash Bins with Dust Collectors and Weigh Hopper, Central Mix Drum with Dust Collection Hood and Dust Collector: | Pneumatic Transfer of Cement and Flyash from Truck Bed to Storage Bins | Truck Loading | | | |
| | Weigh Hopper Loading of Cement and Flyash, and Sand and Aggregate | | | | |

Transfer of Sand and

| <u>Applicable Rules/Requirements</u> | OAC rule 3745-17-08(B)(3)(b) | <u>Applicable Emissions Limitations/Control Measures</u> |
|--|------------------------------|---|
| OAC rule 3745-31-05 | OAC rule 3745-17-08(B)(3)(b) | Particulate emissions from this emissions unit shall not exceed 10.30 pounds per hour, and 18.02 tons per year, respectively. |
| OAC rule 3745-17-07(A)(1)(a) | OAC rule 3745-31-05 | Particulate visible emissions from any point source (control equipment exhaust points) in this emissions unit shall not exceed 20% opacity as a six minute average, except as provided by rule. |
| OAC rule 3745-17-07(B)(1) | OAC rule 3745-17-08(B)(3)(b) | Particulate visible emissions from fugitive dust sources shall not exceed 20% opacity as a three minute average, except as provided by rule. |
| OAC rule 3745-17-11(A)(4) | OAC rule 3745-31-05 | The allowable particulate emissions limit pursuant to this rule is less stringent than the limit established by OAC rule 3745-31-05 (Best Available Technology). |
| OAC rule 3745-31-05 OAC rule 3745-17-08(B)(1) | OAC rule 3745-31-05 | The sand and aggregate loaded into the aggregate bin shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust when the aggregate is transferred (or dropped) from the conveyor belt to the aggregate storage bin. |
| OAC rule 3745-31-05 | OAC rule 3745-31-05 | The storage bins shall be |

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Emissions Unit ID: **P002**

adequately enclosed and vented to a dust collector with fabric filter. Sufficient enclosure shall be provided to eliminate visible emissions of fugitive dust at the point of capture.

The dust collector with 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 or there shall be no visible emissions from the outlet, whichever is less stringent.

The weigh hoppers shall be adequately enclosed and vented to their respective storage bins or to dust collection control equipment. Sufficient enclosure shall be provided to eliminate visible emissions of fugitive dust at the point of capture.

The dust collection control equipment used to control particulate emissions from the Central Mix Drum shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.

The Central Mix Drum discharge area and the mixer truck opening shall be enclosed with a charging boot which minimizes or eliminates visible emissions of fugitive dust to the extent possible with good engineering design.

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Emissions Unit ID: **P002**

2. Additional Terms and Conditions

- 2.a The hourly particulate emissions limitation of 10.30 pounds per hour was established to reflect the maximum hourly potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.b. The particulate emissions limitations established pursuant to OAC rule 3745-31-05 are more stringent than the particulate emissions limitations established by OAC rule 3745-17-11.

B. Operational Restrictions

- 1. The maximum annual operating hours for P002 shall not exceed 3,500 hours.
- 2. Notice to Relocate a Portable or Mobile Source

Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a Permit to Install providing the following criteria are met:

- a. the portable emissions unit is equipped with the Best Available Technology for such portable emissions unit;
- b. the portable emissions unit is operating pursuant to a currently effective Permit to Operate;
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Central District Office or local air agency within a minimum of thirty days prior to the scheduled relocation; and,
- d. in the Central District Office's or local air agency's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile source identified may relocate the source within the State of Ohio without first obtaining a Permit to Install providing the following criteria of OAC rule 3745-31-05(F) are met:

- a. The source owner or operator possesses a current Ohio EPA Permit to Install,

Permit to Operate, or registration status.

- b. The source is equipped with Best Available Technology.
- c. The source owner has identified the proposed site to Ohio EPA.
- d. Ohio EPA has determined that the source, at the proposed site will have an acceptable environmental impact.
- e. A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located.
- f. The owner of the proposed site has provided the source owner with approval or equivalent declaration that it is acceptable to the site owner to move the source to this proposed site.
- g. The source owner has provided Ohio EPA with fifteen days written notice of the relocation.
Any site approvals issued by Ohio EPA shall be valid for no longer than three years and are subject to renewal.

In order for the Director to determine compliance with all of the above criteria, the owner or operator of the portable source must submit a request for permission to pre-approve the proposed site to the Central District Office or local air agency prior to the relocation of the source. This submission must include the following documentation.

- a. A copy of the permit application for all air contaminant emissions units that will be operated at the site and a list of proposed sites.
- b. A copy of any current Ohio EPA Permit(s) to Install and Operate.
- c. A demonstration that the emissions units to be operated at the proposed site(s) are equipped with Best Available Technology.
- d. A demonstration that the owner of the proposed site has provided the source owner with approval or equivalent declaration that it is acceptable to the site owner to move the source to this proposed site.
- e. Documentation of proof of publication of the public notice for the new site.

Failure to submit said notification and to receive Ohio EPA approval prior to the relocation

of the source may result in fines and civil penalties.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the operating hours for P002.
2. The permittee shall perform daily checks for any visible particulate emissions from the dust collection particulate control systems for the cement and flyash storage bins, cement and flyash weigh hopper, and central mix drum while the emissions unit is in operation. The presence or absence of any visible emissions from each dust collector with fabric filter control system shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

Emissions Unit ID: **P002**

3. The permittee shall perform daily checks for any visible particulate emissions from the aggregate transfer points (aggregate bin, weigh hopper, and conveyor belt) while the emissions unit is in operation. The presence or absence of any visible emissions from each transfer point shall be noted in an operations log. If any visible emissions are observed from either system, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the operations log.

D. Reporting Requirements

1. This permittee shall submit annual reports of the total operating hours for P002. These reports shall be submitted to the Ohio EPA, Central District Office or the local air agency by January 31 of each year.
2. The permittee shall submit, on a semi-annual basis, a report which
 - a. identifies all days during which any visible particulate emissions were observed from the dust collection control systems and the aggregate transfer points; and,
 - b. describes the corrective actions taken to eliminate the visible emissions.

These reports shall be submitted by January 31 and July 31 of each year to the Ohio EPA, Central District Office or the local air agency and shall include the previous semi-annual calendar periods (i.e., July to December, and January to June, respectively).

E. Testing Requirements

Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission limitation:

The dust collector with 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 or there shall be no visible emissions from the outlet, whichever is less stringent.

Applicable Compliance Method:

If required, compliance with this mass emissions limitation shall be based on stack testing per OAC rule 3745-17-03(B)(7).

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Emissions Unit ID: **P002**

b. Emission Limitation:

The maximum hourly particulate emissions from this emissions unit shall not exceed 10.30 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly particulates emissions limitation shall be determined from sum total of particulate emissions from the material handling and transfer points identified below (i - viii). Since the particulate emissions from each source represent the facilities maximum hourly potential to emit, no record keeping is required to show compliance with this limit.

i. Sand and Aggregate drop from Ground Hopper to Conveyor Belt

Multiply the maximum hourly process weight rate of 525 tons/hr by the AP-42, Predictive Emission Factor of 0.0027 lb/ton (Predictive Emissions Factor for Aggregate Drop, Section 13.2.4-6, 5th Edition). This results in a particulate emissions rate of 1.42 pounds per hour.

ii. Sand and Aggregate transfer from Conveyor Belt to Aggregate Bin (Weigh Hopper Loading)

Multiply the maximum hourly process weight rate of 525 tons/hr by the AP-42 Weigh Hopper Loading factor of 0.02 lb/ton (Table 11.12-2, Emission Factors for Concrete Batching, 5th Edition). Assume that 100% of the emissions are captured in the bin and 60% of the dust emissions from the material drop are contained in the bin. This results in a particulate emissions rate of 4.2 pounds per hour.

iii. Sand and Aggregate transfer from Weigh Hopper to Conveyor Belt

Multiply the maximum hourly process weight rate of 525 tons/hr by the AP-42 Predictive Emission Factor of 0.0027 lb/ton (Predictive Emissions Factor for Aggregate Drop, Section 13.2.4-6, 5th Edition). This results in a particulate emissions rate of 1.42 pound per hour.

iv. Pneumatic transfer of Cement from Truck Bed to Cement Bin

Multiply the maximum hourly process weight rate of 75 tons/hr by the AP-42 Cement Unloading factor of 0.27 lb/ton (Table 11.12-2, Emission Factors for Concrete Batching, 5th Edition). Assume that the control device (dust collector with fabric filter) has a capture efficiency of 99%, and a control efficiency of 99.5%. This results in a particulate emissions rate of 0.10 pound per hour.

v. Pneumatic transfer of Fly Ash from Truck Bed to Fly Ash Bin

Multiply the maximum hourly process weight rate of 50 tons/hr by the AP-42 Cement Unloading factor of 0.27 lb/ton (Table 11.12-2, Emission Factors for Concrete Batching, 5th Edition). Assume that the control device (dust collector with fabric filter) has a capture efficiency of 99%, and a control efficiency of 99.5%. This results in a particulate emissions rate of 0.07 pound per hour.

vi. Cement and Fly Ash Weigh Hopper Loading:

Multiply the maximum hourly process weight rate of 90 tons/hr by the AP-42 Weigh Hopper Loading factor of 0.02 lb/ton (Table 11.12-2, Emission Factor for Concrete Batching, 5th Edition). Assume that the control device (dust collector with fabric filter) has a capture efficiency of 99.5%, and a control efficiency of 99.9%. This results in a particulate emissions rate of 0.002 pound per hour.

vii. Central Mix Drum Loading (Aggregate, Cement, and Fly Ash):

Multiply the maximum hourly process weight rate of 600 tons/hr (aggregate, cement, and fly ash) by the AP-42 Mixer Loading (central mix) factor of 0.04 lb/ton (Table 11.12-2, Emission Factor for Concrete Batching, 5th Edition). Assume that the control device (dust collection hood, and dust collector with fabric filter) has a capture efficiency of 80%, and a control efficiency of 99.5%. This results in a particulate emissions rate of 0.1 pound per hour.

viii. Truck Loading:

Multiply the maximum hourly process weight rate of 600 tons/hr (mixed concrete) by the AP-42 Mixer Truck Loading factor of 0.02 lb/ton (Table 11.12-2, Emission Factor for Concrete Batching, 5th Edition). Assume that 75% of the emissions are captured by the truck enclosure. This results in a particulate emissions rate of 3 pounds per hour.

c. Emission limitation:

The maximum annual particulate emissions from this emissions unit shall not exceed 18.02 tons per hour.

Applicable Compliance Method:

The 18.02 tons per year emissions limitation was developed by multiplying the 10.30 pounds per hour emissions limitation by a maximum annual operating schedule of 3,500 hours per year. Therefore, compliance shall be based upon the 12-month summation of the number of operating hours multiplied by the 10.30 pounds per hour emissions limitation, and divided by 2000 pounds per ton.

d. Emission Limitation:

Visible particulate emissions from any fugitive emissions source shall not exceed 20 percent opacity as a 3-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Method 9.

e. Emission Limitation:

There shall be no visible emissions.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(4) using methods and procedures specified in USEPA Method 22.

F. Miscellaneous Requirements

1. 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 source(s).
2. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted source are subject to public disclosure in accordance with OAC rule 3745-49-03.

PART II: SPECIAL TERMS AND CONDITIONS [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(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 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> |
|--|--------------------------------------|---|
| Vehicular Traffic on the following Unpaved Roadways: Aggregate Truck Roadway, Cement, Flyash, and Admixture Roadway, Rubber Tired Loader Area, Mixer Truck Roadway, and Miscellaneous Vehicle Roadway. | OAC rule 3745-31-05 | Particulate emissions shall not exceed 91.80 pounds per hour, and 30.61 tons per year. No visible particulate emissions except for 3 minutes during any 60-minute period Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g) |
| | OAC rule 3745-17-07 (B)(5) | Less stringent than the above-mentioned visible emission limitation. |
| | OAC rule 3745-17-08 (B)(2) | Less stringent than the above-mentioned control measure requirements. |

2. Additional Terms and Conditions

- 2.a The unpaved roadways that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

aggregate truck roadway
cement, flyash, and admixture roadway
rubber tired loader area
mixer truck roadway
miscellaneous vehicle roadway

- 2.b The permittee shall employ best available control measures on all unpaved roadways 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 unpaved 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.
- 2.c 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 an unpaved roadway 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.
- 2.d Any unpaved roadway, 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 using appropriate dust control measures for paved surfaces. Any unpaved roadway area that takes the characteristics of a paved roadway due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e 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.

- 2.f 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.
- 2.g Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

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

| <u>unpaved roadways</u> | <u>minimum inspection frequency</u> |
|-------------------------|-------------------------------------|
| all | daily |

- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway 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 Ohio EPA Central District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was

necessary to implement the control measures;

- c. the dates the control measures were implemented; and,
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. 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 reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

- 1. Compliance with the emission limitation for the unpaved roadways and parking areas 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, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None.

PART II: SPECIAL TERMS AND CONDITIONS [Continued]

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 specified in narrative form following the table.

| Operations, Property, <u>and/or Equipment</u> | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|--|---------------------------------|--|
| Load-in and Load-out of Sand and Aggregate Storage Piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-31-05 | Particulate emissions shall not exceed 3.16 pounds per hour and 1.93 tons per year. No visible emissions except for one minute in any hour Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f) |
| Wind Erosion from Storage Piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-31-05 | No visible emissions except for one minute in any hour Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f) |
| Load-in and Load-out of Storage Piles, and Wind Erosion from Storage Piles | OAC rule 3745-17-07 (B)(6) | Less stringent than the above-mentioned visible emission limitation |
| | OAC rule 3745-17-08 (B), (B)(6) | Less stringent than the above-mentioned control measure requirements |

|

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

Sand and Aggregate Storage Piles

- 2.b The permittee shall employ best available control measures on all load-in and load-out operations associated with the 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 load-in and load-out material(s) with water and/or any other suitable dust suppression chemicals to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c The above-mentioned control measure(s) shall be employed for each 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 measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d The permittee shall employ best available control measures for wind erosion from the surfaces of all 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 each storage pile 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.
- 2.e The above-mentioned control measure(s) 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 measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for

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a 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.

- 2.f 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 rules 3745-17-08 and 3745-31-05.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

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

| <u>storage pile identification</u> | <u>minimum load-in inspection frequency</u> |
|------------------------------------|---|
| Sand and Aggregate Storage Piles | Daily |

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

| <u>storage pile identification</u> | <u>minimum load-out inspection frequency</u> |
|------------------------------------|--|
| Sand and Aggregate 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 storage pile in accordance with the following frequencies:

| <u>storage pile identification</u> | <u>minimum wind erosion inspection frequency</u> |
|------------------------------------|--|
| Sand and Aggregate Storage Piles | Daily |

- 4. No inspection shall be necessary for wind erosion from the surface of a storage 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 load-in and load-out of a storage pile, and wind erosion from the surface of a 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 Ohio EPA Central 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.

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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, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the 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 reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitations for the storage piles 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, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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Ander:
PTI A₁
July 8, 1999

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F. Miscellaneous Requirements

None.