



State of Ohio Environmental Protection Agency

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P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
DELAWARE COUNTY
Application No: 01-08360**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 6/7/2001

Central Ready Mix of Ohio LLC
Mike Fuchs
Post Office Box 361537
Columbus, OH 43236

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 Directors 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

CDO



FINAL PERMIT TO INSTALL 01-08360

Application Number: 01-08360
APS Premise Number: 0121010252
Permit Fee: **\$600**
Name of Facility: Central Ready Mix of Ohio LLC
Person to Contact: Mike Fuchs
Address: Post Office Box 361537
Columbus, OH 43236

Location of proposed air contaminant source(s) [emissions unit(s)]:
**Henderson Court
Delaware, Ohio**

Description of proposed emissions unit(s):
Storage silo.

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 cannot meet the requirements of this permit 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 cannot meet the requirements of this permit 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 (P001, F001, and F002)	50.3

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

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>
F001 - Load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions shall not exceed 0.05 ton/yr.</p> <p>No visible emissions except for one minute in any hour.</p> <p>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).</p>
Wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	<p>No visible emissions except for one minute in any hour.</p> <p>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)</p>

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Sand and aggregate 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 wet suppression 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 a three sided enclosure 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 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 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 each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification
Sand and aggregate piles

minimum load-in inspection frequency
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 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 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 appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and, 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 emission limitations in this permit shall be determined in accordance with the following methods :

- a. Emission Limitation:
No visible emissions except for one minute in any hour.

Applicable Compliance Method:

If required, 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.

The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672, including reports of opacity observations made using Method 9.

- b. Emission Limitation:
Particulate emissions shall not exceed 0.05 tons/yr

Applicable Compliance Method:

Storage piles compliance shall be determined by using the emission factor equation (AP-42, 13.2.4, 1/95) and multiplying by the maximum hourly and annual production and multiplying by the percentage of emissions that will be uncontrolled. The result of multiplying the emission factor, annual production, and uncontrolled efficiency percentage is then divided by 2,000 pounds per ton.

Maximum uncontrolled daily emission:

$$3.5 \text{ lbs/ac day} * 0.15 \text{ ac} = 0.53 \text{ lb/day}$$

Maximum hourly emission:

$$0.53 \text{ lb/day} / 24 \text{ hrs/day} * [(100-50)/100] = 0.01 \text{ lb/hr}$$

Maximum yearly emission:

$$0.53 \text{ lb/day} * 365 \text{ days/yr} / 2,000 \text{ lbs/ton} * [(100-50)/100] = 0.05 \text{ ton/yr}$$

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

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>
F002 - Unpaved roadways and parking areas	OAC rule 3745-31-05 (A)(3)	<p>Particulate emissions shall not exceed 0.26 ton/yr.</p> <p>No visible particulate emissions except for 3 minutes during any 60-minute period.</p> <p>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)</p>

2. Additional Terms and Conditions

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

unpaved roadways:

Entrance and exit driveway, mixer loop, loader area, and stock truck loop.

unpaved parking areas:

Mixer truck parking area

- 2.b The permittee shall employ best available control measures on all unpaved roadways and parking areas 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 and parking areas with calcium chloride and water 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 or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using calcium chloride and water. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to 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 and parking areas in accordance with the following frequencies:

unpaved roadways

minimum inspection frequency

All

Daily

unpaved parking areas

minimum inspection frequency

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 or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 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 limitations in this permit shall be determined in accordance with the following methods:

- a. Emission limitation:
Particulate emissions shall not exceed 43.3 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the emission factor equation for unpaved roadways (AP-42 13.2.2-4). This equation yields the emission factor that is multiplied by the total vehicle miles traveled per day/year of the unpaved roadways and then multiplied by the percentage of uncontrolled emissions. Finally, the result of the emission factor multiplied by the annual VMT and the uncontrolled emission factor is divided by 2,000 pounds per ton.

$$E = [k (s/12)^a (W/3)^b / (M/0.2)^c] * [(365-p)/365] * (S/15)$$

Where: E = size-specific emission factor (lb/VMT)

s = surface material silt content (10%)

W = mean vehicle weight (18 tons)

M = surface material moisture content (0.2)

S = average vehicle speed (5 mph)

a = constant (0.8)

b = constant (0.4)

c = constant (0.3)

k = constant (2.6)

$$[2.6 * (10/12)^{0.8} * (18/3)^{0.4} / (0.2/0.2)^{0.3}] * (365-137/365) * (5/15) = 0.96 \text{ lbs/VMT}$$

Maximum hourly emission:

$$0.96 \text{ lbs/VMT} * 1,431 \text{ VMT/yr} / 2,340 \text{ hrs/yr} * [(100-90)/100] = 0.059 \text{ lb/hr}$$

Maximum yearly emission:

$$0.59 \text{ lbs/VMT} * 8,760 \text{ VMT/yr} / 2,000 \text{ lbs/ton} * [(100-90)/100] = 0.26 \text{ ton/yr}$$

- b. Emission limitation:
No visible particulate emissions except for 3 minutes during any 60-minute period.

Applicable Compliance Method:

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.

Central Ready Mix of Ohio LLC

PTI Application: 01-08360

Issued: 6/7/2001

Facility ID: 0121010252

Emissions Unit ID: F002

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

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>
P001 - Concrete batch plant	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions shall not exceed 11.38 lbs/hr and 49.9 tons/yr.</p> <p>See II.A.2.a-e below.</p>
Transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3)	<p>The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.</p> <p>The drop height of the front-end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area.</p> <p>The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the conveyor and transfer point to bins.</p>
Batcher and auxiliary silos	OAC rule 3745-31-05(A)(3)	<p>The silo shall be adequately enclosed and vented to the fabric filter; the enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture.</p> <p>The fabric filter shall achieve an outlet emission rate of not greater than 0.020 grain of particulate emissions per dry standard cubic feet of exhaust gases or</p>

		<p>there shall be no visible emissions from the outlet, whichever is less stringent.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07.</p>
	OAC rule 3745-17-07(A)	<p>Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average.</p>
	OAC rule 3745-17-11(B)(1)	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).</p>
Weigh hopper loading of sand and aggregate	OAC rule 3745-31-05(A)(3)	<p>The weigh hopper shall be adequately enclosed and vented to the current silo. The enclosure shall be sufficient to eliminate visible emission of fugitive dust at the point of capture.</p>
	OAC rule 3745-17-11(B)(1)	<p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).</p>

2. Additional Terms and Conditions

2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Transfer of sand and aggregate, batcher and auxiliary silos, and weigh hopper loading of sand and aggregate

2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee’s permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

control measure(s)

Transfer of sand and aggregate

Wet suppression and front-end loader use

Batcher and auxiliary silos

Fabric filters

Weigh hopper loading of sand and aggregate

Adequate enclosures and vents

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of 3745-31-05(A)(3).

2.e The hourly emission limitation was established to reflect the potential to emit (PTE) for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.
2. The maximum annual production rate of concrete shall not exceed 55,500 tons concrete/yr.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s)

minimum inspection frequency

All

Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director of the Central District Office by January 31.

E. Testing Requirements

1. 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:
Particulate matter shall not exceed 11.38 lbs/hr
Particulate matter shall not exceed 49.9 tons/yr

Applicable compliance method:

Compliance shall be demonstrated by summing sections i - vi found below.

i. Sand and aggregate transfer to elevated storage bin

Applicable compliance method:

The short-term emission limitation is demonstrated by multiplying the maximum hourly production rate by the emission factor that is provided by AP-42, Chapter 11, Section 12, 10/86. This result is then multiplied by the uncontrolled efficiency percentage. The annual emission limitation is demonstrated by multiplying the maximum hourly production rate by 8,760 hours per year, dividing by 2,000 pounds per ton and multiplying by the uncontrolled efficiency percentage.

Maximum hourly production - 30 tons/hr (application, 3/14/01)

Maximum yearly production (PTE - 30 tons/hr * 8,760 hrs/yr) - 262,800 tons/yr

Emission factor - 0.029 lb/ton (AP-42, 11.12-2, 10/86)

Control efficiency (partially enclosed dump hopper and maintenance of low height of front-end loader bucket) - 20 % (estimate, application, 3/14/01)

Maximum hourly emission:

$30 \text{ tons/hr} * 0.029 \text{ lb/ton} * [(100-20)/100] = 0.70 \text{ lb/hr}$

Maximum yearly emission (PTE):

$0.87 \text{ lbs/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-20)/100] = 3.05 \text{ tons/yr}$

ii. Batcher weigh hopper loading

Applicable compliance method:

The short-term emission limitation is demonstrated by multiplying the maximum hourly production rate by the emission factor that is provided by AP-42, Chapter 11, Section 12, 10/86. This result is then multiplied by the uncontrolled efficiency percentage. The annual emission limitation is demonstrated by multiplying the maximum hourly production rate by 8,760 hours per year, dividing by 2,000 pounds per ton and multiplying by the uncontrolled efficiency percentage.

Maximum hourly unloading rate of cement to hopper - 4.0 tons/hr (application, 3/14/01)

Emission factor - 0.02 lb/ton (AP-42, 11.12-2, 10/86)

Control efficiency - 99.6 % (application, 3/14/01)

Maximum hourly emission:

$4.0 \text{ tons/hr} * 0.02 \text{ lb/ton} * [(100-99.6)/100] = 0.00032 \text{ lb/hr}$

Maximum yearly emission (PTE):

$0.08 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-99.6)/100] = 0.0014 \text{ ton/yr}$

iii. Aggregate weigh hopper loading

Applicable compliance method:

The short-term emission limitation is demonstrated by multiplying the maximum hourly production rate by the emission factor that is provided by AP-42, Chapter 11, Section 12, 10/86. This result is then multiplied by the uncontrolled efficiency percentage. The annual emission limitation is demonstrated by multiplying the maximum hourly production rate by 8,760 hours per year, dividing by 2,000 pounds per ton and multiplying by the uncontrolled efficiency percentage.

Maximum hourly unloading rate of aggregate to hopper - 24.0 tons/hr (3/14/01)

Emission factor - 0.02 lb/ton (AP-42, 11.12-2, 10/86)

Control efficiency (wet suppression) - 70 % (RACM, 2.22-3, 1983)

Maximum hourly emission:

$$24.0 \text{ tons/hr} * 0.02 \text{ lb/ton} * [(100-70)/100] = 0.14 \text{ lb/hr}$$

Maximum yearly emission (PTE):

$$0.14 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-70)/100] = 0.63 \text{ ton/yr}$$

iv. Cement silo loading

Applicable compliance method:

The short-term emission limitation is demonstrated by multiplying the maximum hourly production rate by the emission factor that is provided by AP-42, Chapter 11, Section 12, 10/86. This result is then multiplied by the uncontrolled efficiency percentage. The annual emission limitation is demonstrated by multiplying the maximum hourly production rate by 8,760 hours per year, dividing by 2,000 pounds per ton and multiplying by the uncontrolled efficiency percentage.

Maximum hourly pneumatic loading rate of cement to silo - 40 tons/hr

Emission factor - 0.27 lb/ton (AP-42, 11.12-2, 10/86)

Control efficiency - 99.6 % (application, 3/14/01)

Maximum hourly emission:

$$40 \text{ tons/hr} * 0.27 \text{ lb/ton} * [(100-99.6)/100] = 0.043 \text{ lb/hr}$$

Maximum yearly emission:

$$0.043 \text{ lb/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-99.6)/100] = 0.19 \text{ ton/yr}$$

v. Loading/unloading of sand and gravel

Applicable compliance method:

The short-term emission limitation is demonstrated by multiplying the maximum hourly production rate by the emission factor that is provided by AP-42, Chapter 11, Section 12, 10/86. This result is then multiplied by the uncontrolled efficiency percentage. The annual emission limitation is demonstrated by multiplying the maximum hourly production rate by 8,760 hours per year, dividing by 2,000 pounds per ton and multiplying by the uncontrolled efficiency percentage.

Assumptions/emission factors:

Maximum hourly rate of truck dumping of sand - 20 tons/hr (application, 3/14/01)

Maximum hourly rate of truck dumping of gravel - 20 tons/hr (application, 3/14/01)

Emission factor equation (AP-42, 13.2-4, 1/95):

$$E = k * (0.0032) * [(U/5)^{1.3} / (M/2)^{1.4}]$$

Where: E = emission factor (lbs/ton)

k = particle size multiplier (dimension less)

M = material moisture content (%) = 5 % for sand and 2 % for gravel

U = mean wind speed (mph) = 8.3

Emission factor for truck dumping of sand - 0.38 lbs/ton

Emission factor for truck dumping of gravel - 1.38 lbs/ton

Control efficiency (wet suppression and partially enclosed storage area) - 70 % (estimated, application, 3/14/01)

Maximum hourly emission for sand:

$$20 \text{ tons/hr} * 0.38 \text{ lb/ton} * [(100-70)/100] = 2.28 \text{ lbs/hr}$$

Maximum yearly emission for sand (PTE):

$$7.6 \text{ lbs/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-70)/100] = 9.99 \text{ tons/yr}$$

Maximum hourly emission for gravel:

$$20 \text{ tons/hr} * 1.37 \text{ lbs/ton} * [(100-70)/100] = 8.22 \text{ lbs/hr}$$

Maximum yearly emission for gravel(PTE):

$$27.4 \text{ lbs/hr} * 8,760 \text{ hrs/yr} / 2,000 \text{ lbs/ton} * [(100-20)/100] = 36.0 \text{ tons/yr}$$

Maximum hourly emission for sand and gravel:

$$2.28 \text{ lbs sand/hr} + 8.22 \text{ lbs gravel/hr} = 10.5 \text{ lbs/hr}$$

Maximum yearly emission for sand and gravel(PTE):

$$9.99 \text{ tons sand/yr} + 36.0 \text{ tons gravel/yr} = 46.0 \text{ tons/yr}$$

Total particulate emissions for P001:

$$0.70 \text{ lb/hr} + 0.00032 \text{ lb/hr} + 0.14 \text{ lb/hr} + 0.043 \text{ lb/hr} + 10.5 \text{ lbs/hr} = 11.38 \text{ lbs/hr}$$

$$3.05 \text{ tons/yr} + 0.0014 \text{ ton/yr} + 0.63 \text{ ton/yr} + 0.19 \text{ ton/yr} + 46.0 \text{ tons/yr} = 49.9 \text{ tons/yr}$$

b. Emission limitation:

0.020 gr/dscf

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

F. Miscellaneous Requirements

None

SIC CODE 3273 SCC CODE 3-05-010-49 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)
Wind erosion from storage piles (see Section A.2.a for identification of storage piles)

DATE INSTALLED May 31, 2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		0.01 lb/hr	0.05	0.01 lb/hr	0.05
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Emission limitation, visible emission limitation, and wet suppression.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08360

Facility ID: 0121010252

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Storage silo CITY/TWP Delaware

SIC CODE 3273 SCC CODE 3-05-010-90 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Unpaved roadways and parking areas

DATE INSTALLED May 31, 2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		0.059 lb/hr	0.26	0.059 lb/hr	0.26
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

See additional terms and conditions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____

NEW SOURCE REVIEW FORM B

PTI Number: 01-08360

Facility ID: 0121010252

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Storage silo CITY/TWP Delaware

SIC CODE 3273 SCC CODE 3-05-011-10 EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION Concrete batch plant

DATE INSTALLED May 31, 2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		11.38 lbs/hr	49.9	11.38 lbs/hr	49.9
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

See additional terms and conditions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ x NO

IDENTIFY THE AIR CONTAMINANTS: _____