State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL** **CERTIFIED MAIL**
**FRANKLIN COUNTY**

Street Address:
122 S. Front Street

Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

**Application No: 01-08256**

**DATE: 10/12/2000**

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

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

**CC: USEPA** **CDO**

# FINAL PERMIT TO INSTALL 01-08256

| | |
|---|---|
| Application Number: | 01-08256 |
| APS Premise Number: | 0125042446 |
| Permit Fee: | **$600** |
| Name of Facility: | Central Ready Mix of Ohio LLC |
| Person to Contact: | Mike Fuchs |
| Address: | Post Office Box 361537<br>Columbus, OH 43236 |

Location of proposed air contaminant source(s) [emissions unit(s)]:
**Wilson Road**
**Columbus**, **Ohio**

Description of proposed emissions unit(s):
**Concrete batching plant with batcher and auxiliary silos, batcher and aggregate weigh hoppers, aggregate storage piles and unpaved roadways and parking areas.**

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**

| Pollutant | Tons Per Year |
|---|---|
| PM (F001) | 0.13 tpy |
| PM (F002) | 0.11 tpy |
| PM (P001) | 40.6 tpy |
| Total PM | 40.84 tpy |

Emissions Unit ID: **F001**

**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.

storage piles

| Operations, Property, and/or Equipment | Applicable Rules/Requirements |
|---|---|
| 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) |
| wind erosion from storage piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-31-05(A)(3) |
| load-in and load-out of storage piles, and wind erosion from | OAC rule 3745-17-07 (B)(6) |

| | Applicable Emissions Limitations/Control Measures |
|---|---|
| OAC rule 3745-17-08 (B), (B)(6) | Particulate matter emissions shall not exceed 0.13 ton/year<br><br>There shall be no visible particulate emissions except for a period of one minute during any 60-minute observation period.<br><br>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)<br><br>There shall be no visible particulate emissions except for a period of one minute during any 60-minute observation period.<br><br>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)<br><br>The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitations established by this rule.<br><br>The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitations established by this rule. |

**2. Additional Terms and Conditions**

**2.a** All storage piles at this site are covered by this permit and subject to the above-mentioned requirements.

**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 with water 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 with water 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 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 on a daily basis.

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile on a daily basis.

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 on a daily basis.

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 events 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 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.

2. Emission Limitation -
   0.13 ton/year particulate matter

   Applicable Compliance Method
   The maximum daily surface area of three (3) storage piles of 0.34 acres is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 3.5 lbs/acre/day. The resulting uncontrolled emissions rate, 1.198 lbs/day, is then multiplied by a moisture control factor of 40% (1-.40), resulting in a controlled emissions rate of 0.71 lbs/day. The result is then divided by 2,000 lbs/ton and multiplied by 365 days/year in order to achieve the 0.13 ton/year limit.

## F. Miscellaneous Requirements

None

Emissions Unit ID: **F002**

**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.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| F002 - Unpaved roadways and parking areas | OAC rule 3745-31-05(A)(3) | Particulate matter emissions shall not exceed 0.11 ton/year<br><br>There shall be no visible particulate emissions except for a period of three minutes during any 60-minute observation period.<br><br>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) | The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitations established by this rule. |
| | OAC rule 3745-17-08 (B), (B)(2) | The visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is more stringent than the emission limitations established by this rule. |

**2. Additional Terms and Conditions**

**2.a** All unpaved roadways and parking areas at the site are covered by this permit and subject to the above-mentioned requirements.

**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 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 with the control measure specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to 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.

**2.h** The use of used oil as a dust suppressant is prohibited per OAC rule 3745-279-82.

## B. Operational Restrictions

None

## C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of all unpaved roadways and parking areas on a daily basis.

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 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.

2. Emission Limitation -
0.11 ton/year particulate matter

Applicable Compliance Method
The maximum annual vehicle miles traveled on site of 4435 miles/yr is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 0.095 lb/mile. The resulting uncontrolled emissions rate, 421.33 lbs/yr, is then multiplied by a moisture control factor of 50% (1-.50), resulting in a controlled emissions rate of 210.66 lb/yr. The result is then divided by 2,000 lbs/ton in order to achieve the 0.11 ton/year limit.

## 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.

| Operations, Property, and/or Equipment | | Applicable Rules/Requirements |
|---|---|---|
| P001 - Concrete Batch Plant | | OAC rule 3745-31-05(A)(3) |
| Transfer of sand and aggregate to elevated bins | | OAC rule 3745-17-07(B) |
| | Weigh hopper loading of cement, sand and aggregate | OAC rule 3745-17-08(B) |
| Batcher and Auxiliary silo | | OAC rule 3745-31-05(A)(3) |

| | | |
|---|---|---|
| | | See A.2.2.b. |
| | Applicable Emissions Limitations/Control Measures | The weigh hopper shall be adequately enclosed and vented to the cement silo. The enclosure shall be sufficient to eliminate visible emission of fugitive dust at the point of capture. |
| | Particulate matter emissions shall not exceed 34.25 lbs/hr and 40.6 tons/year from the equipment identified below. | See A.2.2.b. |
| OAC 3745-17-11<br><br>OAC rule 3745-31-05(A)(3) | The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average. | |
| OAC 3745-17-11 | The drop height of the front-end bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the conveyor loading area. | |
| | The sand and aggregate 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. | |
| | The silo shall be adequately enclosed and vented to the fabric filter; the enclosure shall be sufficient to eliminate visible emissions of fugitive dust at the point of capture. | |
| | The fabric filter shall achieve an outlet emission rate of not greater than 0.020 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. | |

**2. Additional Terms and Conditions**

**2.a** The 34.25 lbs/hr limitation was established for PTI purposes to reflect the potential to emit for this emission unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**2.b** The emission limitations established pursuant to OAC rule 3745-31-05 are more stringent than the emission limitations established by this rule.

**B. Operational Restrictions**

1. The maximum annual production rate for P001 shall not exceed 92,500 tons of concrete.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the tons of concrete produced for P001.

2. The permittee shall perform daily checks for any visible particulate emissions from the fabric filter control systems for the weigh hopper and cement silo, while the weigh hopper and silo are in operation. The presence or absence of any visible emissions from each 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.

**D. Reporting Requirements**

1. This permittee shall submit annual reports of the total tons of concrete produced for P001. These reports shall be submitted to the Central District Office 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 fabric filter control systems 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 Central District Office.

**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:
   0.020 gr/dscf

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

b. Emission Limitation -
34.25 lbs/hr particulate matter

Applicable Compliance Method -
Compliance shall be determined by totaling the following products:

i. Sand transfer to elevated bin:

The maximum hourly production rate of 39 tons/hr is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 0.38 lb/ton. The resulting uncontrolled emissions rate, 14.82 lbs/hr, is then multiplied by a moisture control factor of 50% (1-.50), resulting in a controlled emissions rate of 7.41 lbs/hr.

ii. Aggregate transfer to elevated bin:

The maximum hourly production rate of 39 tons/hr is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 1.37 lb/ton. The resulting uncontrolled emissions rate, 53.43 lbs/hr, is then multiplied by a moisture control factor of 50% (1-.50), resulting in a controlled emissions rate of 26.72 lbs/hr.

iii. Cement unloading to elevated silo (pneumatic)

The maximum hourly production rate of 39 tons/hr is multiplied by the Fifth Edition, January, 1995 AP-42 emission factor, 0.27 lb/ton (Table 11.12-2). The resulting uncontrolled emission rate, 10.53 lbs/hr, is then multiplied by a fabric filter control of 99% (1-0.99), resulting in a controlled emission rate of 0.11 lbs/hr.

iv. Weigh Hopper Loading:

The maximum hourly production rate of 39 tons/hr is multiplied by the Fifth Edition, January, 1995 AP-42 emission factor, 0.02 lb/ton (Table 11.12-2). The resulting uncontrolled emission rate, 0.78 lbs/hr, is then multiplied by a fabric filter control factor of 99% (1-0.99), resulting in a controlled emission rate of 0.0078 lb/hr.

The lb/hr emission rate for each of the four areas are summed to obtain the 34.25 lb/hr emission limitation.

c. Emission limitation:
40.6 tons particulate matter per year

Applicable Compliance Method -
Compliance shall be determined by totaling the following products:

i. Sand transfer to elevated bin:

The maximum yearly production rate of 92,500 tons/yr is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 0.38 lb/ton (Table 11.12-2) and divided by 2,000 pounds per ton. The resulting uncontrolled emissions rate, 17.58 tons/yr, is then multiplied by a moisture control factor of 50% (1-.50), resulting in a controlled emissions rate of 8.79 tons/yr.

ii. Aggregate transfer to elevated bin:

The maximum yearly production rate of 92,500 tons/yr is multiplied by the Fifth Edition, January, 1995 AP-42 calculated emission factor, 1.37 lb/ton (Table 11.12-2) and divided by 2,000 pounds per ton. The resulting uncontrolled emissions rate, 63.36 tons/yr, is then multiplied by a moisture control factor of 50% (1-.50), resulting in a controlled emissions rate of 31.68 tons/yr.

iii. Cement unloading to elevated silo (pneumatic)

The maximum yearly production rate of 92,500 tons/yr is multiplied by the Fifth Edition, January, 1995 AP-42 emission factor, 0.27 lb/ton (Table 11.12-2) and divided by 2,000 pounds per ton. The resulting uncontrolled emission rate, 12.5 tons/yr, is then multiplied by a fabric filter control of 99% (1-0.99), resulting in a controlled emission rate of 0.125 ton/yr

iv. Weigh Hopper Loading:

The maximum hourly production rate of 92,500 tons/yr is multiplied by the Fifth Edition, January, 1995 AP-42 emission factor, 0.02 lb/ton (Table 11.12-2) and divided by 2,000 pounds per ton. The resulting uncontrolled emission rate, 0.93 tons/yr, is then multiplied by a fabric filter control factor of 99% (1-0.99), resulting in a controlled emission rate of 0.009 ton/yr.

The ton/yr emission rate for each of the four areas are summed to obtain the 40.6 tons/yr emission limitation.

d. Emission Limitation -
20 percent opacity as a 3-minute average

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.

## NEW SOURCE REVIEW FORM B

PTI Number: 01-08256 Facility ID: 0125042446

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Concrete batching plant with batcher and auxiliary silos, batcher and aggregate weigh hoppers, aggregate storage piles and unpaved roadways and parking areas. CITY/TWP Columbus

SIC CODE 3531 SCC CODE EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION Aggregate storage piles

DATE INSTALLED 10/00

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 | | | 0.13 tpy | | 0.13 tpy |
| $PM_{10}$ | | | | | |
| 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? |
|---|
| **Enter 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 contaiminants 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: 01-08256 Facility ID: 0125042446

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Concrete batching plant with batcher and CITY/TWP Columbus

Emissions Unit ID: **P001**

SIC CODE 3531 SCC CODE EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Unpaved roadways and parking areas

DATE INSTALLED 10/00

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 | | | 0.11 tpy | | 0.11 tpy |
| $PM_{10}$ | | | | | |
| 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? |
|---|
| **Enter 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 contaiminants 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: _____

3262.wpd

# NEW SOURCE REVIEW FORM B

PTI Number: 01-08256 Facility ID: 0125042446

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Concrete batching plant with batcher and CITY/TWP Columbus

Emissions Unit ID: **P001**

SIC CODE 3531 SCC CODE EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION Batcher silo, auxiliary silo, batcher weigh hopper, aggregate weigh hopper, aggregate loading/unloading

DATE INSTALLED 10/00

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 | | 34.25 lb/hr | 40.6 tpy | 34.25 lb/hr | 40.6 tpy |
| $PM_{10}$ | | | | | |
| 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? |
|---|
| **Enter 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 contaiminants 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: 01-08256 Facility ID: 0125042446

FACILITY NAME Central Ready Mix of Ohio LLC

FACILITY DESCRIPTION Concrete batching plant with batcher and CITY/TWP Columbus

Emissions Unit ID: **P001**

**Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us**

| *Please fill out the following. If the checkbox does not work, replace it with an 'X'* | Electronic | Additional information File Name Convention (your PTI # plus this letter) | Hard Copy | None |
|---|---|---|---|---|
| Calculations (required) | ☐ | 0000000c.wpd | ☒ | |
| Modeling form/results | ☐ | 0000000s.wpd | ☐ | ☒ |
| PTI Application (complete or partial)* | ☐ | 0000000a.wpd | ☐ | ☒ |
| BAT Study | ☐ | 0000000b.wpd | ☐ | ☒ |
| Other/misc. | ☐ | 0000000t.wpd | ☐ | ☒ |

*** Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.**

**Please complete (see comment bubble to the left for additional instructions):**

**NSR Discussion**

**Central Ready Mix of Ohio (CRM) is applying for a permit to install a new concrete batch plant on Wilson Road in Columbus, Ohio scheduled for construction October, 2000. The maximum throughput of concrete at the plant is 39 tons/hr and 92,5000 tons/year. The batching plant utilizes transit mixer trucks to transport the concrete off site. The facility has several particulate matter emission sources including storage piles (F001), unpaved roadways and parking areas (F002), and the batching process (P001) which includes the transfer of sand and aggregate to elevated bins, batcher and auxiliary silos and weigh hoppers. CRM is subject to OAC rules 3745-31-05(A)(3), 3745-17-07(B) and 3745-17-08(B). The terms and conditions were selected using hypertext templates. All emissions factors were selected from AP-42 and the limits were based on maximum annual and hourly throughput of concrete. A hard copy of the calculations will be submitted.**

**If you have any questions, please do not hesitate to call me at (614) 728-5043.**

**Kelly Meinzer**

**Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):**

☐ **Synthetic Minor Determination and/or** ☐ **Netting Determination**

**Permit To Install ENTER PTI NUMBER HERE**

## A. Source Description

28 **NEW SC**

PTI Num

FACILIT

Emissions Unit ID: **P001**

| | | | |
|---|---|---|---|
| FACILITY DESCRIPTION | Concrete batching plant with batcher and auxiliary silos, batcher and aggregate weigh hoppers, aggregate storage piles and unpaved roadways and parking areas. | CITY/TWP | Columbus |

**B. Facility Emissions and Attainment Status**

**C. Source Emissions**

**D. Conclusion**

**PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:**

**NONE**

**Please complete:**

**SUMMARY (for informational purposes only)**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| Pollutant | Tons Per Year |
|---|---|
| PM (F001) | 0.13 tpy |
| PM (F002) | 0.11 tpy |
| PM (P001) | 40.6 tpy |
| Total PM | 40.84 tpy |