



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
MORROW COUNTY
Application No: 01-08743**

CERTIFIED MAIL

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

DATE: 5/8/2003

Hensel Ready Mixed Concrete Batch Plant
Rodney Hensel
9925 County Road 265
Kenton, OH 43326

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,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 5/8/2003
Effective Date: 5/8/2003**

FINAL PERMIT TO INSTALL 01-08743

Application Number: 01-08743
APS Premise Number: 0159000152
Permit Fee: **\$1400**
Name of Facility: Hensel Ready Mixed Concrete Batch Plant
Person to Contact: Rodney Hensel
Address: 9925 County Road 265
Kenton, OH 43326

Location of proposed air contaminant source(s) [emissions unit(s)]:
**4050 Township Road 256
Marengo, Ohio**

Description of proposed emissions unit(s):
Silos aggregate batcher cement batcher storage piles plant roadways diesel storage tanks.

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

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

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 ninety (90) 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	5.7

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 - sand and aggregate storage piles	OAC rule 3745-31-05(A)(3) OAC rule 3745-17-08(A) OAC rule 3745-17-07(B)	Particulate emissions shall not exceed 1.8 tons/year. None (refer to section A.I.2.g of the terms and conditions of this permit).
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)	No visible emissions except for one minute in any hour. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (see Sections A.2.b, A.2.c, and A.2.f) No visible emission except for one minute in any hour.
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	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)

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:

all sand and aggregate storage piles

- 2.b The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall apply 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 watering 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.
- 2.g** Morrow County is not included in "Appendix A" or OAC rule 3745-17-08. Therefore, the requirements established in OAC rules 3745-17-08(A) and 3745-17-07(B) shall not apply to any fugitive dust source which is located in Morrow county. "Fugitive dust source" is defined in OAC rule 3745-17-01(B)(7).

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

- 1.** Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile, load-out operation at each storage pile and wind erosion from pile surfaces on a weekly basis.
- 2.** 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.

3. 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.
4. 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.
5. 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 5.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 quarterly 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(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. **Emission Limitation:**
Particulate emissions shall not exceed 1.8 tons per year.

Applicable Compliance Method:

Compliance shall be determined by using the equation found in AP-42, Section 13.2.4, 10/02.

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

Applicable Compliance Method:

Compliance 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.

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 - paved roadways and parking areas (see Section A.2.a)	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 2.1 tons per year. No visible particulate emissions except for one minute during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (see Sections A.2.c, A.2.d, and A.2.f through A.2.j)
unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05(A)(3)	No visible particulate emission except for 3 minutes during any 60-minute period. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (see Sections A.2.e through A.2.j)
	OAC rule 3745-17-08(A) OAC rule 3745-17-07(B)	None (refer to section A.I.2.j of the terms and conditions of this permit).

2. Additional Terms and Conditions

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are all paved roadways and paved parking areas.
- 2.b The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are all unpaved roadways and unpaved parking areas.
- 2.c The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the paved roadways and parking areas by watering

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

- 2.d** 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. The permittee shall treat the unpaved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The 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 a paved or 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.f** 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(s) 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 the visible emission limitation for paved roadways and parking areas.
- 2.g** 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.h** 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.i** 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.j** Morrow County is not included in "Appendix A" or OAC rule 3745-17-08. Therefore, the requirements established in OAC rules 3745-17-08(A) and 3745-17-07(B) shall not apply to any fugitive dust source which is located in Morrow county. "Fugitive dust source" is defined in OAC rule 3745-17-01(B)(7).

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. 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.
2. 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.
3. Except as otherwise provided in this section, the permittee shall perform inspections of the paved and unpaved roadways and parking areas on a weekly basis. 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 3.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, 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 quarterly 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(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
Particulate emissions shall not exceed 2.1 tons per year.

Applicable Compliance Method:

Compliance shall be established by summing the paved emissions, determined by using the equation found in AP-42, Section 13.2.1, 10/02, and the unpaved emissions, determined by using the equation found in Ohio RACM, 2-10, 03/01.

- b. Emission Limitations:
No visible particulate emissions except for 1 minute during any 60-minute period; and
No visible particulate emission except for 3 minutes during any 60-minute period.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS 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 - truck mix concrete batch plant with fabric filters:	OAC rule 3745-31-05(A)(3)	Combined particulate emissions shall not exceed 4.25 lbs/hr and 1.8 tons/yr from the operations and equipment which constitute this emissions unit.
		See A.2.a-d below.
	OAC rule 3745-17-08(A) OAC rule 3745-17-07(B)	See A.2.b below.
	OAC rule 3745-17-07(A) OAC rule 3745-17-11(B)	See A.2.c below
concrete batch plant: transfer of sand and aggregate to elevated bins	OAC rule 3745-31-05(A)(3)	The visible emissions of fugitive dust shall not exceed 20 percent opacity, as a 3-minute average.
		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.
		The sand and aggregate loaded into the elevated bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust.
concrete batch plant: portland cement, fly ash and slag silos	OAC rule 3745-31-05(A)(3)	The silos 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 0.030 grain

concrete batch plant: weight hopper loading of cement, fly ash, slag, sand and aggregate	OAC rule 3745-31-05(A)(3)	of particulate per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent.
concrete batch plant: truck loading	OAC rule 3745-31-05(A)(3)	The weight hopper shall be adequately enclosed and vented to a fabric filter. The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate per dry standard cubic foot of exhaust gases or there shall be no visible emissions from the outlet, whichever is less stringent. The visible emissions of fugitive dust shall not exceed 20 percent opacity, as a 3-minute average. A charging boot, water ring, or dust collection and control system shall be used around the hopper discharge area and the transit-mix truck opening and the collection efficiency shall be sufficient to minimize or eliminate visible emissions at the point of capture to the extent possible with good engineering design.

2. Additional Terms and Conditions

- 2.a** The 4.25 lbs PE/hr emission limitation is based on the emission unit's potential to emit vented through the above referenced control equipment. Therefore, only the monitoring, record keeping or reporting requirements of the control equipment are necessary to ensure compliance with this emission limitation.
- 2.b** For facilities in Appendix A areas as defined in OAC rule 3745-17-08(D), the requirements established pursuant to OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B) are equivalent to or less stringent than the requirements of OAC rule 3745-31-05(A)(3).
- 2.c** The requirements established pursuant to OAC rule 3745-17-07(A) and OAC rule 3745-17-11(B) are less stringent than or equivalent to the requirements of OAC rule 3745-31-05(A)(3).

- 2.d** The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. These control measures are listed below.

<u>Material Handling Operation</u>	<u>Control Measures</u>
Transfer of Sand and Aggregate	Wet suppression and front-end loader use
Silos	Fabric Filter(s)
Weight Hopper Loading	Fabric Filter
Truck Loading	Charging Boot, Water Ring or Fabric Filter

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

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 3745-31-05(A)(3).

B. Operational Restrictions

1. The maximum annual product rate for this facility is 100,000 cubic yards of concrete (200,000 tons) per year or less.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain annual records of the cubic yards or tons of concrete produced and transported from this facility.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from each material handling operation (each fabric filter stack, each sand and/or aggregate transfer point, truck loading) serving this emissions unit. No inspection is required on days the material handling operations are not in operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. Whether the emissions are representative of normal operations;
 - b. If the emissions are not representative of normal operations, the cause of the visible emissions;
 - c. The total duration of any visible emission incident; and
 - d. Any corrective actions taken to eliminate the visible emissions.

The information above shall be kept separately for each material handling operation identified in Section A.2.c.

D. Reporting Requirements

1. The permittee shall submit annual reports indicating the total cubic yards or total tons of concrete produced. The reports shall be submitted annually, shall cover the previous calendar year and shall be submitted to the Ohio EPA, Central District Office.
2. The permittee shall submit annual reports which (a) identify any days during which daily visible emission checks were not performed in accordance with C.2 above, (b) identify all days during which any visible emissions were not representative of normal operations, (c) identify the cause and duration of the non-representative visible emissions, (d) describe any actions taken to correct the non-representative visible particulate emissions. The reports shall be submitted annually, shall cover the previous calendar year and shall be submitted to the Ohio EPA, 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:
0.030 gr/dscf

Applicable Compliance Method:

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

- b. Emission Limitation:
Combined particulate emissions shall not exceed 4.25 lbs/hr from the operations and equipment which constitute this emissions unit.

Applicable Compliance Method:

Compliance may be established by summing the emissions from aggregate and sand transfer, weigh hopper loading, cement and cement supplement unloading to elevated silo, and truck loading. Emission factors and calculations are based on a mix design consisting of 44% Aggregate, 36% Sand, 7% Cement, 7% Cement Supplement(Slag/Fly Ash) and 6% Water.

Aggregate & Sand Transfer Emission Calculations:

Aggregate feed hopper loading	=	105.6 ton/hr max transfer rate
Aggregate feed hopper to conveyor	=	105.6 ton/hr max transfer rate
Aggregate conveyor to bin	=	105.6 ton/hr max transfer rate

Sand feed hopper loading	=	86.4 ton/hr max transfer rate
Sand feed hopper to conveyor	=	86.4 ton/hr max transfer rate
Sand conveyor to bin	=	86.4 ton/hr max transfer rate
Aggregate emission factor	=	0.0069 lb/ton (AP-42, 11.12, 10/01)
Sand emission factor	=	0.0021 lb/ton (AP-42, 11.12, 10/01)

$$105.6 \text{ tons/hr} \times 0.0069 \text{ lb/ton} = 0.7286 \text{ lb PE/hr}$$

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$$105.6 \text{ tons/hr} \times 0.0069 \text{ lb/ton} = 0.7286 \text{ lb PE/hr}$$

$$86.4 \text{ tons/hr} \times 0.0021 \text{ lb/ton} = 0.1814 \text{ lb PE/hr}$$

$$86.4 \text{ tons/hr} \times 0.0021 \text{ lb/ton} = 0.1814 \text{ lb PE/hr}$$

$$86.4 \text{ tons/hr} \times 0.0021 \text{ lb/ton} = 0.1814 \text{ lb PE/hr}$$

$$\text{Aggregate \& Sand Transfer Total} = 2.73 \text{ lbs PE/hr}$$

Weigh Hopper Loading Emission Calculations:

Bins to weigh hopper	=	192 tons/hr max transfer rate
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Emission factor	=	0.0051 lb/ton (AP-42, 11.12, 10/01)
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$$192 \text{ tons/hr} \times 0.0051 \text{ lb/ton} = 0.9792 \text{ lb PE/hr}$$

$$\text{Weigh Hopper Loading Total} = 0.9792 \text{ lb PE/hr}$$

Cement & Cement Supplement Unloading Emission Calculations:

Truck to cement silo	=	16.8 tons/hr max transfer rate
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Truck to cement sup silo	=	16.8 tons/hr max transfer rate
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Cement emission factor	=	0.72 lb/ton (AP-42, 11.12, 10/01)
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Supplement emission factor	=	3.14 lbs/ton (AP-42, 11.12, 10/01)
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Filter control efficiency	=	99.8%
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$$16.8 \text{ tons/hr} \times 0.72 \text{ lb/ton} \times (1-0.998) = 0.0242 \text{ lb PE/hr}$$

$$16.8 \text{ tons/hr} \times 3.14 \text{ lb/ton} \times (1-0.998) = 0.1055 \text{ lb PE/hr}$$

$$\text{Cement \& Cement Supplement Unloading Total} = 0.1297 \text{ lb PE/hr}$$

Truck Loading Emission Calculations:

Weigh hopper to truck	=	33.6 tons/hr max transfer rate
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Emission factor	=	0.61 lb/ton (AP-42, 11.12, 10/01)
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Filter/boot control efficiency	=	99.8 % (AP-42, 11.12, 10/01)
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$$33.6 \text{ tons/hr} \times 0.61 \text{ lb/ton} \times (1-0.98) = 0.4099 \text{ lb PE/hr}$$

$$\text{Truck Loading Total} = 0.4099 \text{ lb PE/hr}$$

Total Emissions:

Aggregate & Sand Transfer Total =	2.7300 lbs PE/hr
Weigh Hopper Loading Total =	0.9792 lb PE/hr
Cement & Cement Supplement Unloading Total =	0.1297 lb PE/hr
Truck Loading Total =	<u>+ 0.4099 lb PE/hr</u>
	4.25 lbs PE/hr

c. Emission Limitation:

Combined particulate emissions shall not exceed 1.8 tons per year from the operations and equipment which constitute this emissions unit.

Applicable Compliance Method:

Compliance may be established by summing the emissions from aggregate and sand transfer, weigh hopper loading, cement and cement supplement unloading to elevated silo, and truck loading. Emission factors and calculations are based on a mix design consisting of 44% Aggregate, 36% Sand, 7% Cement, 7% Cement Supplement(Slag/Fly Ash) and 6% Water.

Aggregate & Sand Transfer Emission Calculations:

Aggregate feed hopper loading	=	88,000 tons/yr max transfer rate
Aggregate feed hopper to conveyor	=	88,000 tons/yr max transfer rate
Aggregate conveyor to bin	=	88,000 tons/yr max transfer rate
Sand feed hopper loading	=	72,000 tons/yr max transfer rate
Sand feed hopper to conveyor	=	72,000 tons/yr max transfer rate
Sand conveyor to bin	=	72,000 tons/yr max transfer rate
Aggregate emission factor	=	0.0069 lb/ton (AP-42, 11.12, 10/01)
Sand emission factor	=	0.0021 lb/ton (AP-42, 11.12, 10/01)

88,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.3036 ton PE/yr

88,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.3036 ton PE/yr

88,000 tons/yr x 0.0069 lb/ton x ton/2000 lbs = 0.3036 ton PE/yr

72,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.0756 ton PE/yr

72,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.0756 ton PE/yr

72,000 tons/yr x 0.0021 lb/ton x ton/2000 lbs = 0.0756 ton PE/yr

Aggregate & Sand Transfer Total = 1.1376 ton PE/yr

Weigh Hopper Loading Emission Calculations:

Bins to weigh hopper	=	160,000 ton/yr max transfer rate
Emission factor	=	0.0051 lb/ton (AP-42, 11.12, 10/01)

160,000 tons/yr x 0.0051 lb/ton x ton/2000 lbs = 0.4080 ton PE/yr

Weigh Hopper Loading Total = 0.4080 ton PE/yr

Cement & Cement Supplement Unloading Emission Calculations:

Truck to cement silo	=	14,000 tons/yr max transfer rate
Truck to cement sup silo	=	14,000 tons/yr max transfer rate
Cement emission factor	=	0.72 lb/ton (AP-42, 11.12, 10/01)
Supplement emission factor	=	3.14 lbs/ton (AP-42, 11.12, 10/01)
Filter control efficiency	=	99.8%

14,000 tons/yr x 0.72 lb/ton x (1-0.998) x ton/2000 lbs= 0.0101 ton PE/yr

14,000 tons/yr x 3.14 lbs/ton x (1-0.998) x ton/2000 lbs= 0.0440 ton PE/yr

Cement & Cement Supplement Unloading Total = 0.0541 ton PE/yr

Truck Loading Emission Calculations:

Weigh hopper to truck	=	28,000 tons cement and cement supplement/yr max transfer rate
Emission factor	=	0.61 lb/ton (AP-42, 11.12, 10/01)
Filter/boot control efficiency	=	98% (AP-42, 11.12, 10/01)

28,000 tons/yr x 0.61 lb/ton x (1- 0.98) x ton/2000 lbs= 0.1708 ton PE/yr

Truck Loading Total = 0.1708 ton PE/yr

Total Emissions:

Aggregate & Sand Transfer Total =	1.1376 tons PE/yr
Weigh Hopper Loading Total =	0.4080 ton PE/yr
Cement & Cement Supplement Unloading Total =	0.0541 ton PE/yr
Truck Loading Total =	<u>+ 0.1708 ton PE/yr</u>
	1.7705 tons PE/yr

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

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 9 set forth in "Appendix on Test methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1997.

- e. Emission Limitation:
No visible emissions

Applicable Compliance Method:

If required, compliance with the visible emission limitation for the material handling operation(s) identified above shall be determined in accordance with Test Method 22 set

forth in "Appendix on Test methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1997.

F. Miscellaneous Requirements

1. The permittee may replace equipment, add additional equipment, or alter existing equipment provided the altered facility meets the following criteria:
 - a. The maximum hourly and annual allowable emission limitations specified in this permit will not be exceeded;
 - b. The maximum hourly and/or annual production limits (transfer rates) presented in this permit will not be exceeded;
 - c. The altered or new plant equipment will meet all applicable control measures presented in this permit;
 - d. The altered or new plant equipment does not include installation of equipment not specifically identified in this permit; and
 - e. The altered plant does not include the complete replacement of the entire plant.

If one or more of the items above occur, then the owner shall apply for an Air Permit to Instal (PTI) or, if appropriate, a replacement General Air PTI from the Ohio EPA District Office or Local Air Pollution Control Agency with jurisdiction for the subject site.

2. Be aware, OAC rule 3745-31-03(A)(1)(a) states "Fossil fuel fired boilers, preheaters, air heaters, water heaters...less than ten million British thermal units per hour burning only natural gas, distillate oil(with less than or equal to 0.5 per cent by weight sulfur), or liquid petroleum gas" are exempt from having to obtain a PTI.
3. For permittees who applied for a portable source as defined in OAC Rule 3745-31-01(GGG), the permittee is subject to the following terms and conditions:

Notice to Relocate a Portable or Mobile Source

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

- a. The portable emissions unit is equipped with the best available control technology for such portable emissions unit (best available control technology as defined in the summary table found in section A.1 of this permit);

- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to the Director and the appropriate field office having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In the Director and the appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the criteria of OAC rule 3745-31-05(F) are met.

In order for the Director and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame prior to the relocation of the emissions unit with the Director and the appropriate field office having jurisdiction over the new site.

Upon receipt of the notice, the Director and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

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

NEW SOURCE REVIEW FORM B

PTI Number: 01-08743

Facility ID: 0159000152

FACILITY NAME Hensel Ready Mixed Concrete Batch Plant

FACILITY DESCRIPTION Silos aggregate batcher cement batcher storage piles plant roadways diesel storage tanks CITY/TWP Marengo

SIC CODE 1442 SCC CODE 30501199 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION aggregate storage piles

DATE INSTALLED July 2003

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

Table with columns: Pollutants, Air Quality Description, Actual Emissions Rate (Short Term Rate, Tons Per Year), PTI Allowable (Short Term Rate, Tons Per Year). Rows include Particulate Matter, PM10, Sulfur Dioxide, Organic Compounds, Nitrogen Oxides, Carbon Monoxide, Lead, and 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 T&Cs.

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: 01-08743

Facility ID: 0159000152

FACILITY NAME Hensel Ready Mixed Concrete Batch Plant

FACILITY DESCRIPTION Silos aggregate batcher cement batcher storage piles plant roadways diesel storage tanks CITY/TWP Marengo

SIC CODE 1442 SCC CODE 30501090 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Paved and unpaved roadways and parking areas

DATE INSTALLED July 2003

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					2.1
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 T&Cs.

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: 01-08743

Facility ID: 0159000152

FACILITY NAME Hensel Ready Mixed Concrete Batch Plant

FACILITY DESCRIPTION Silos aggregate batcher cement batcher storage piles plant roadways diesel storage tanks CITY/TWP Marengo

SIC CODE 1442 SCC CODE 30501101 EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION truck mix concrete batch plant

DATE INSTALLED July 2003

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				4.25	1.8
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 T&Cs.

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: _____