



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
MIAMI COUNTY**

**CERTIFIED MAIL**

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: 08-04570**

**DATE: 3/2/2004**

CF Poeppelman Inc  
James Poeppelman  
4755 State Rte 721  
Bradford, OH 45308-9425

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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

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

cc: USEPA

RAPCA



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**Permit To Install  
Terms and Conditions**

**Issue Date: 3/2/2004  
Effective Date: 3/2/2004**

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**FINAL PERMIT TO INSTALL 08-04570**

Application Number: 08-04570  
APS Premise Number: 0855010449  
Permit Fee: **\$1250**  
Name of Facility: CF Poeppelman Inc  
Person to Contact: James Poeppelman  
Address: 4755 State Rte 721  
Bradford, OH 45308-9425

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

**4755 State Rte 721  
Bradford, Ohio**

Description of proposed emissions unit(s):

**Modification of P001, addition of silo and increase in production, chapter 31 replacing 08-2361 issued 4-29-92.**

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

#### 3. Records Retention Requirements

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

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

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

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions

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

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

#### **10. Public Disclosure**

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

#### **11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate 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.

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**CF Poepelman Inc**  
**PTI Application: 08-04570**  
**Issued: 3/2/2004**

**Facility ID: 0855010449**

CF Poeppelman Inc  
 PTI Application: 08-04570  
 Issued: 3/2/2004

Facility ID: 0855010449

**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>
particulate	37.93

**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

P901 - 117 cubic yard/hr Concrete  
Batch Plant (transit mix truck  
loading)

modification

Transfer of sand and aggregate to  
elevated bins

Weigh hopper loading of aggregate

Weigh hopper loading of cement  
vented to fabric filter

Transit mix truck loading enclosed,  
rubber telescopic boot and water ring

Cement Silos vented to fabric filter

<u>Applicable Rules/Requirements</u>		
OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)	
	OAC rule 3745-17-07(A)(1)	
OAC rule 3745-31-05(A)(3)	OAC rule 3745-31-05(A)(3)	OAC rule 3745-31-05(A)(3)
OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)	
	OAC rule 3745-17-07(A)(1)	
	OAC rule 3745-31-05(A)(3)	

Applicable Emissions Limitations/Control Measures

The particulate emissions (PE) from this emissions unit shall not exceed 8.66 lbs/hr and 37.93 tons/yr.

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 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 a fabric filter.

The fabric filter shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible emissions from the outlet, whichever is less stringent.

The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The opacity limit specified by this rule is less stringent than the opacity limitation established pursuant to 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 weigh hopper shall be adequately enclosed and vented to a fabric filter; the enclosure shall be sufficient to minimize or 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 of particulate emissions per dry standard cubic foot of exhaust gases or there are no visible emissions from the outlet, whichever is less stringent.

The emission limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The opacity limit specified by this rule is less stringent than the opacity limitation established pursuant to

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 weigh hopper shall be adequately enclosed ; the enclosure shall be sufficient to minimize or eliminate visible emissions of fugitive dust.

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

The visible emissions of fugitive dust shall not exceed 20 percent opacity as a 3-minute average.

A charging boot shall be used around the hopper discharge area and transit - mix truck opening; the charging boot shall have a collection efficiency sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

## 2. Additional Terms and Conditions

- 2.a The 8.66 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.

## B. Operational Restrictions

None

## C. Monitoring and/or Recordkeeping Requirements

1. 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 the stack and for any visible fugitive particulate emissions from transfer of sand and aggregate to elevated bins, weigh hopper loading of aggregate and transit mix truck loading serving this emissions unit. 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. the location and color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

2. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the transfer of sand and aggregate to elevated bins, weigh hopper loading of aggregate and transit mix truck loading serving this emissions unit, and (c) describe any corrective actions taken to minimize the abnormal visible particulate and/or visible fugitive particulate emissions.
2. The permittee shall submit annual reports which specify the total concrete produced in cubic yards. These reports shall be submitted to the Director (the appropriate OEPA District Office or local air agency) by January 31 of each year .

**E. Testing Requirements**

1. Compliance Methods

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 0.03 grain per dry standard cubic foot of exhaust gases

Emissions Unit ID: P901

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-  
8.66 lbs/hr of particulate emissions

Applicable Compliance Method-

Compliance shall be determined by totaling the following operations:

- i. Sand and aggregate transfer to elevated bin:

The maximum process rate of 117 cubic yards/hr of concrete multiplied by 0.0015 lb particulate/cubic yard of concrete for sand transfer and 0.0064 lb particulate/cubic yard of concrete for aggregate transfer (AP-42, Chapter 11, Table 11.12-3 (10/01) for an uncontrolled emission rate of 0.92 lb/hr.

- ii. Cement unloading to elevated storage silo (pneumatic):

The maximum hourly production rate of 117 cubic yards/hr, is multiplied by the emission factor, 0.0002 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for a controlled emission rate of 0.02 lb/hr.

- iii. Weigh hopper loading:

The maximum hourly production rate of 117 cubic yards/hr, is multiplied by the emission factor, 0.0079 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for an uncontrolled emission rate of 0.92 lb/hr.

- iv. Transit mix truck loading:

The maximum hourly production rate of 117 cubic yards/hr, is multiplied by the emission factor, 0.058 lb PM/cubic yard (AP-42, Chapter 11, Table 11.12-3 10/01) for a controlled emission rate of 6.79 lbs/hr.

- c. Emission limitation-  
37.93 tons/yr of particulate

Applicable Compliance Method-

The annual emission rate for the Concrete Batch Plant (transit mix truck loading) was developed by multiplying the maximum hourly emissions rate of 8.66 lbs/hr by the maximum operating schedule of 8760 hrs/yr (potential to emit), and divided by 2,000 lbs/ton.

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**CF Po**

**PTI A**

**Issued: 3/2/2004**

Emissions Unit ID: **P901**

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

Applicable Compliance Method-  
Compliance shall be demonstrated through visible emissions observations in accordance with OAC rule 3745-17-03(B)(3).

- e. Emissions Limitation-  
no visible emissions from the stack

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

**F. Miscellaneous Requirements**

- 1. Terms in this permit supercedes those identified in PTI 08-2361 issued on 4/22/92 and represents a 21.93 tons/yr increase of allowable particulate emission.