



State of Ohio Environmental Protection Agency

Madison County

RE: Final Permit to Install

Street
1800 \\
Column

Address:
149
16-1049

Application No: **01-7481**

DATE: February 18, 1999

**Fisher Cast Steel
John Harmeyer
12 E. Town Street
West Jefferson, OH 43162**

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

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

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

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

Very truly yours,

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

cc: USEPA
Ohio EPA, Central District Office



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Application Number: 01-7481

Permit
Title

APS Premise Number: 0149000002

Number:

Permit Fee: **\$1,600.00**

Name of Facility: Fisher Cast Steel

Person to Contact: John Harmeyer

Address: 12 E. Town Street

West Jefferson, OH 43162

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

**12 E. TOWN STREET
WEST JEFFERSON, OH**

Description of proposed emissions unit(s):

THERMAL SAND RECLAIMER AND STORAGE SILO.

Date of Issuance: February 18, 1999

Issuance:

Effective Date: February 18, 1999

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

13. Source Operation and Operating Permit Requirements After Completion of

Construction

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

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	4.09
NO _x	6.46
OC	0.04
CO	0.10

FACILITY NAME Fisher Cast Steel

Emissions Unit ID: **P002**PTI Application Number: **01-7481**

February 18, 1999

Part II: Special Terms and Conditions**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or <u>Equipment</u>	Applicable <u>Rules/Requirements</u>	Applicable Emissions <u>Limitations/Control</u> <u>Measures</u>
Thermal sand reclaimer	3745-31-05	Particulate emissions shall not exceed 0.91 lb./hr. and 3.98 tons per year; Nitrogen Oxide emissions shall not exceed 3.31 lbs./hr. and 6.46 tons per year; Carbon Monoxide emissions shall not exceed 0.022 lb./hr. and 0.10 ton per year; Organic Compound emissions shall not exceed 0.014 lb./hr. and 0.042 ton per year; See operational restrictions
	3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule
	3745-17-11	BAT established by this permit is more stringent than the limits established by this rule
	3745-21-07	BAT established by this permit is more stringent than the limits established by this rule

FACILITY NAME Fisher Cast Steel
PTI Application Number: **01-7481**
February 18, 1999

Facility ID: **0149000002**
Emissions Unit ID: **P002**

2. Additional Terms and Conditions

None.

FACILITY NAME Fisher Cast Steel

PTI Application Number: **01-7481**

February 18, 1999

B. Operational Restrictions

This source, sand drying, shall not be operated without the mutual operation of the baghouse filter.

The outlet grain loading of the control device, the baghouse filter, shall not exceed 0.01 grain/dscf.

C. Monitoring and/or Recordkeeping Requirements

The permittee shall maintain records of the amount of sand dried in this source, and must maintain the record of the total use on an annual basis. These records shall be retained for a period of 5 years.

D. Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify any record of an exceedance of the annual limit of sand dried or any record of the operation of the source without the mutual operation of the baghouse filter. This report shall include any corrective actions that were taken to achieve compliance and shall be submitted within 45 days of the deviation or by February 1, following an exceedance of the annual sand usage limit.

These records, as well as, any records of baghouse filter changes and baghouse maintenance shall be retained for a period of 5 years from the date the record was created.

E. Testing Requirements

Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

1. Emission Limitation

3.31 lbs. NO_x/hr.

6.46 tons NO_x/yr.

0.022 lb. CO/hr.

0.10 ton CO/yr.

0.014 lb. OC/hr.

0.042 ton OC/yr.

Applicable Compliance Method

FACILITY NAME Fisher Cast Steel
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Facility ID: **0149000002**
Emissions Unit ID: **P002**

These limits represent the maximum capacity of the dryer for natural gas. These emission limitations were determined by multiplying the natural gas usage (MM ft³) by the AP-42 emission factor of each pollutant (lbs./MM ft³) and by multiplying the annual sand use (in tons) by the AP-42 emission factor of each pollutant. Since these limits represent the maximum capacity of the equipment, no additional compliance determination is required other than recordkeeping of the amount of sand.

FACILITY NAME Fisher Cast Steel

PTI Application Number: **01-7481**

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2. Emission Limitation

20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the opacity limitation in accordance with the method specified in OAC rule 3745-17-03(B)(1)

3. Emission Limitation

7,500 tons of sand dried per year

Applicable Compliance Method

The permittee shall maintain records of the amount of sand dried in this source, these records of sand usage shall be added at the end of each year. Any exceedance of this limit shall be reported as described in Section D.

4. Emission Limitation

The outlet grain loading of the control device, the baghouse filter, shall not exceed 0.01 grains/dscf; and particulate emissions shall not exceed 0.91 pound PM/hour and 3.98 tons PM/year.

Applicable Compliance Method

The permittee shall maintain records of baghouse maintenance and filter changes. The permittee shall demonstrate compliance with the particulate limitation in accordance with 40 CFR Part 60, Appendix A, Method 5 within 90 days of issuance of this permit. The test(s) shall be conducted while the emissions unit is operating at or near maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the field office's refusal to accept the results of the emissions test(s).

Personnel from the Ohio EPA Central District Office shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

Facility ID: **0149000002**

Emissions Unit ID: **P002**

FACILITY NAME Fisher Cast Steel

PTI Application Number: **01-7481**

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A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

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PTI Application Number: **01-7481**
February 18, 1999

Facility ID: **0149000002**
Emissions Unit ID: **P002**

F. Miscellaneous Requirements

None.

FACILITY NAME Fisher Cast Steel
PTI Application Number:01-7481
February 18, 1999

Emissions Unit ID: **P003**

Part II: Special Terms and Conditions

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or <u>Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand Storage Silo	3745-31-05	Particulate emissions shall not exceed 0.06 lb./hr. and 0.11 ton per year;
	3745-17-07	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as provided by rule
	3745-17-11	BAT established by this permit is more stringent than the limits established by this rule

2. Additional Terms and Conditions

None.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

FACILITY NAME Fisher Cast Steel

PTI Application Number:01-7481

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The permittee shall maintain records of the amount of sand dried in the thermal sand reclaimer and transferred to the silo. This amount calculated on an annual basis, shall be used as the record of the amount of sand moved through the silo.

FACILITY NAME Fisher Cast SteelEmissions Unit ID: **P003**

PTI Application Number:01-7481

February 18, 1999

D. Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify any record of an exceedance of the annual limit of sand processed through the silo or the amount of sand dried. This report shall include any corrective actions that were taken to achieve compliance and shall be submitted by February 1, following an exceedance of the annual sand usage limit.

These records shall be retained for a period of 5 years from the date the record was created.

E. Testing Requirements

Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

1. Emission Limitation

0.06 lb. PM/hr.

0.11 ton PM/yr

Applicable Compliance Method

These emission limitations were determined by multiplying the emission factor from the Ohio EPA "Reasonably Available Control Measures for Fugitive Dust Sources" by the maximum sand transferred hourly and annually to the silo (in tons). Since these limits should not be exceeded without an exceedance of the hourly (maximum capacity of equipment loading) and annual sand usage limit, no additional compliance determination is required other than recordkeeping of the amount of sand dried. If required, the permittee shall demonstrate compliance with the particulate limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

2. Emission Limitation

20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the opacity limitation in accordance with the method specified in OAC rule 3745-17-03(B)(1)

3. Emission Limitation

FACILITY NAME Fisher Cast Steel

PTI Application Number:01-7481

February 18, 1999

7,500 tons of sand dried per year

Applicable Compliance Method

The permittee shall maintain records of the amount of sand dried for storage in this source, these records of sand dried shall be added at the end of each year. Any exceedance of this limit shall be reported as described in Section D.

F. Miscellaneous Requirements

None.