

5256

**PERMITS TO OPERATE AIR CONTAMINANT
SOURCES (COAL-FIRED BOILER)**

12/02/88

OEPA/DOE-FMPC

9

LETTER



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

permit fees must
be remitted.

5256



Richard F. Celeste
Governor

1431110128 #001
US DEPT OF ENERGY - FEED MATE
MARY STONE
P.O. BOX 398705
CINCINNATI OH 45239

CERTIFIED MAIL

December 2, 1988

Dear Sir or Madam:

Enclosed are Permit(s) to Operate which allow you to operate the described air contaminant source(s) in the manner indicated in the permit(s). Because these permits contain several conditions and restrictions, I urge you to read them carefully.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 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 with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Law Division of the Office of the Attorney General within three (3) days of filing with the board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact the air pollution control agency to which you submitted your application.

Very truly yours,

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

TGR/gs

EPA-3167
04/23/87

Date Rec'd DEC 05 1988
Log C-423
File 5472.32
Library _____

01

PERMIT TO OPERATE AN AIR CONTAMINANT SOURCEDate of Issuance **12/02/88**Application No. **14311101288001**Effective Date **12/02/88**Permit Fee **\$270**

This document constitutes issuance to:

**US DEPT OF ENERGY - FEED MATERIALS PROD
WILLEY ROAD
FERNALD OHIO 45239**

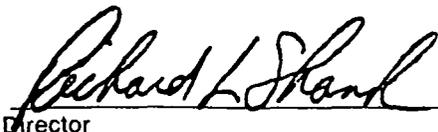
of a permit to operate for:

**100 MMBTU/HR COAL-FIRED BOILER: MULTICLONE-ESP
UNIT #1, 78,000 LBS. STEAM/HOUR MAX.**

The following terms and conditions are hereby expressly incorporated into this permit to operate:

1. This permit to operate shall be effective until **12/01/91**.
You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to the appropriate Ohio EPA field office.
2. The above-described source is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.
3. Prior to any modification of this source, as defined in rule 3745-31-01 of the Ohio Administrative Code (OAC), a permit to install must be granted by the Ohio EPA pursuant to OAC Chapter 3745-31.
4. The Director of the Ohio EPA or an authorized representative may, subject to the safety requirements of the permit holder, 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 and federal air pollution laws and regulations and the terms and conditions of this permit.
5. A permit fee in the amount specified above must be remitted within 15 days from the issuance date of this permit.
6. Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA field office must be notified in writing of any transfer of this permit.
7. This source and any associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices in order to minimize air contaminant emissions. Any malfunction of this source or any associated air pollution control system(s) shall be reported immediately to the appropriate Ohio EPA field office in accordance with 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 this source.
8. Any unauthorized or emergency release of an air contaminant from this source which, due to the toxic or hazardous nature of the material, may pose a threat to public health, or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.)
9. The appropriate Ohio EPA field office is:
**SOUTHWESTERN OHIO AIR POLLUTION CONTROL AGENCY
2400 BEEKMAN ST. CINCINNATI, OH 45214
(513) 251-8777**
10. If this term and condition is checked, the permit holder is subject to the attached special terms and conditions.

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

02

APPLICATION NUMBER: 1431110128 B001
FACILITY NAME: U.S. D. O. E. Feed Materials Production Center
EQUIPMENT DESCRIPTION: 100 MMBTU/Hr. Coal-Fired Boiler; Multiclone - ESP
COMPANY ID: Unit #1, 78,000 Lbs. Steam/Hour Max.

SPECIAL TERMS AND CONDITIONS

1. Applicable Rules:

The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source: 3745-17-07 (A)-(D), 3745-17-10 and 3745-18-37(S).

(This condition in no way limits the applicability of any other state or federal regulation.)

2. Allowable Mass Emission Limitations:

The allowable mass emission rate from this source shall not exceed the following:

0.14 pound of particulate emissions per million BTU actual heat input; and

2.0 pounds of sulfur dioxide emissions per million BTU actual heat input.

3. Opacity Monitoring Requirements and Reporting:

The U.S. D.O.E. Feed Materials Production Center shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this source. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Pursuant to 40 CFR Parts 60.7 and 60.13(h), the U.S. D.O.E. Feed Materials Production Center shall submit reports on a quarterly basis to the Ohio EPA field office, documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07. These quarterly excess emission reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during the previous calendar quarters.

4. Coal Quality Specifications:

The quality of coal burned in this source shall meet the following specifications on an "as burned" basis:

A. Less than 12% ash;

U.S. D.O.E. Feed Materials Production Center
Premise No. 1431110128 B001
Page -2-

- B. A sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 2.0 pounds SO₂/10⁶ BTU actual heat input; and
- C. Greater than 11,900 BTU/pound of coal.

Compliance with the above-mentioned specifications for ash content, sulfur content and heat content shall be determined by using the analytical results for the composite sample of coal collected during each calendar month.

5. Sampling and Reporting Requirements for the Coal Quality:

The U.S. D.O.E. Feed Materials Production Center shall collect representative grab samples of the coal burned in this source with a minimum frequency of one sample per truckload or carload. The coal sampling shall be performed in accordance with ASTM method D 2234 Collection of a Gross Sample of Coal (Type 11-D-2). At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample.

The U.S. D.O.E. Feed Materials Production Center shall also record the total quantity of coal burned in this source during each calendar day.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (BTU/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be ASTM method D 3174, Ash in the Analysis of Coal and Coke, ASTM method D 3177, Total Sulfur in the Analysis Sample of Coal and Coke, and ASTM method D 2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, respectively. Alternative, equivalent methods may be used upon written approval by the Ohio EPA field office.

Quarterly reports concerning the quality and quantity of the coal burned in this source shall be submitted to the Air Quality Modeling and Planning Section of the Division of Air Pollution Control in Columbus, and the Ohio EPA field office. These reports shall include the following information for the source for each calendar month during calendar quarter:

- A. the total quantity of coal burned (tons);
- B. the average ash content (percent) of the coal burned;
- C. the average sulfur content (percent) of the coal burned;
- D. the average heat content (BTU/lb) of the coal burned; and
- E. the average sulfur dioxide emission rate (lbs. SO₂/10⁶ BTU actual heat input) from the coal burned.

These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year and shall cover the data obtained during the previous calendar quarters.

PERMIT TO OPERATE AN AIR CONTAMINANT SOURCEDate of Issuance **12/02/88**Application No. **14311101289003**Effective Date **12/02/88**Permit Fee **\$270**

This document constitutes issuance to:

**US DEPT OF ENERGY - FEED MATERIALS PROD
WILLEY ROAD
FERNALD OHIO 45239**

of a permit to operate for:

**100 MMSTU/HR COAL-FIRED BOILER: MULTICLONE-ESP
UNIT #3, 78,000 LBS. STEAM/HOUR MAX.**

The following terms and conditions are hereby expressly incorporated into this permit to operate:

1. This permit to operate shall be effective until **12/01/91**
You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to the appropriate Ohio EPA field office.
2. The above-described source is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.
3. Prior to any modification of this source, as defined in rule 3745-31-01 of the Ohio Administrative Code (OAC), a permit to install must be granted by the Ohio EPA pursuant to OAC Chapter 3745-31.
4. The Director of the Ohio EPA or an authorized representative may, subject to the safety requirements of the permit holder, 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 and federal air pollution laws and regulations and the terms and conditions of this permit.
5. A permit fee in the amount specified above must be remitted within 15 days from the issuance date of this permit.
6. Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA field office must be notified in writing of any transfer of this permit.
7. This source and any associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices in order to minimize air contaminant emissions. Any malfunction of this source or any associated air pollution control system(s) shall be reported immediately to the appropriate Ohio EPA field office in accordance with 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 this source.
8. Any unauthorized or emergency release of an air contaminant from this source which, due to the toxic or hazardous nature of the material, may pose a threat to public health, or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.)
9. The appropriate Ohio EPA field office is:
**SOUTHWESTERN OHIO AIR POLLUTION CONTROL AGENCY
2400 BEEKMAN ST. CINCINNATI, OH 45214
(513) 251-8777**
10. If this term and condition is checked, the permit holder is subject to the attached special terms and conditions.

OHIO ENVIRONMENTAL PROTECTION AGENCY



Director

05

APPLICATION NUMBER: 1431110128 B003
 FACILITY NAME: U.S. D. O. E. Feed Materials Production Center
 EQUIPMENT DESCRIPTION: 100 MMBTU/Hr. Coal-Fired Boiler: Multiclone - ESP
 COMPANY ID: Unit #3, 78,000 Lbs. Steam/Hour Max.

SPECIAL TERMS AND CONDITIONS

1. Applicable Rules:

The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source: 3745-17-07 (A)-(D), 3745-17-10 and 3745-18-37(S).

(This condition in no way limits the applicability of any other state or federal regulation.)

2. Allowable Mass Emission Limitations:

The allowable mass emission rate from this source shall not exceed the following:

- 0.14 pound of particulate emissions per million BTU actual heat input; and
- 2.0 pounds of sulfur dioxide emissions per million BTU actual heat input.

3. Opacity Monitoring Requirements and Reporting:

The U.S. D.O.E. Feed Materials Production Center shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this source. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Pursuant to 40 CFR Parts 60.7 and 60.13(h), the U.S. D.O.E. Feed Materials Production Center shall submit reports on a quarterly basis to the Ohio EPA field office, documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07. These quarterly excess emission reports shall be submitted by February 1, May 1, August 1 and November 1 of each year and shall address the data obtained during the previous calendar quarters.

4. Coal Quality Specifications:

The quality of coal burned in this source shall meet the following specifications on an "as burned" basis:

- A. Less than 12% ash;

U.S. D.O.E. Feed Materials Production Center
Premise No. 1431110128 B003
Page -2-

- B. A sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 2.0 pounds SO₂/10⁶ BTU actual heat input; and
- C. Greater than 11,900 BTU/pound of coal.

Compliance with the above-mentioned specifications for ash content, sulfur content and heat content shall be determined by using the analytical results for the composite sample of coal collected during each calendar month.

5. Sampling and Reporting Requirements for the Coal Quality:

The U.S. D.O.E. Feed Materials Production Center shall collect representative grab samples of the coal burned in this source with a minimum frequency of one sample per truckload or carload. The coal sampling shall be performed in accordance with ASTM method D 2234 Collection of a Gross Sample of Coal (Type 11-D-2). At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample.

The U.S. D.O.E. Feed Materials Production Center shall also record the total quantity of coal burned in this source during each calendar day.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (BTU/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be ASTM method D 3174, Ash in the Analysis of Coal and Coke, ASTM method D 3177, Total Sulfur in the Analysis Sample of Coal and Coke, and ASTM method D 2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, respectively. Alternative, equivalent methods may be used upon written approval by the Ohio EPA field office.

Quarterly reports concerning the quality and quantity of the coal burned in this source shall be submitted to the Air Quality Modeling and Planning Section of the Division of Air Pollution Control in Columbus, and the Ohio EPA field office. These reports shall include the following information for the source for each calendar month during calendar quarter:

- A. the total quantity of coal burned (tons);
- B. the average ash content (percent) of the coal burned;
- C. the average sulfur content (percent) of the coal burned;
- D. the average heat content (BTU/lb) of the coal burned; and
- E. the average sulfur dioxide emission rate (lbs. SO₂/10⁶ BTU actual heat input) from the coal burned.

These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year and shall cover the data obtained during the previous calendar quarters.

07

PREPARED BY: S. Mark Hines
DATE PREPARED: July 12, 1988

STATEMENT OF
THE OHIO ENVIRONMENTAL PROTECTION AGENCY

1431110128B001
APPLICATION NUMBER

\$270.00
AMOUNT DUE

US DEPT OF ENERGY - FEED MATERIALS PROD
FACILITY NAME

PURSUANT TO SEC.3745.11 OF THE OHIO REVISED
CODE, FULL AMOUNT OF THIS PERMIT FEE IS DUE
WITHIN FIFTEEN (15) DAYS OF THIS PERMIT.
MAKE CHECKS PAYABLE TO:.

THE TREASURER OF THE STATE OF OHIO.

RETURN THIS STATEMENT WITH YOUR REMITTANCE USING
THE ENCLOSED ENVELOPE TO:

GENERAL ACCOUNTING
OHIO EPA
P.O. BOX 1049
COLUMBUS, OH 43266-0149

ALL QUESTIONS REGARDING THIS FEE SHOULD INCLUDE
THE APPLICATION NUMBER SHOWN ABOVE.

STATEMENT OF
THE OHIO ENVIRONMENTAL PROTECTION AGENCY

1431110128B003
APPLICATION NUMBER

\$270.00
AMOUNT DUE

US DEPT OF ENERGY - FEED MATERIALS PROD
FACILITY NAME

PURSUANT TO SEC.3745.11 OF THE OHIO REVISED
CODE, FULL AMOUNT OF THIS PERMIT FEE IS DUE
WITHIN FIFTEEN (15) DAYS OF THIS PERMIT.
MAKE CHECKS PAYABLE TO:

THE TREASURER OF THE STATE OF OHIO.

RETURN THIS STATEMENT WITH YOUR REMITTANCE USING
THE ENCLOSED ENVELOPE TO:

GENERAL ACCOUNTING
OHIO EPA
P.O. BOX 1049
COLUMBUS, OH 43266-0149

ALL QUESTIONS REGARDING THIS FEE SHOULD INCLUDE
THE APPLICATION NUMBER SHOWN ABOVE.