

Fluor Fernald, Inc.
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Cincinnati, OH 45253-8704

(513) 648-3000

FLUOR

April 9, 2002

Fernald Environmental Management Project
Letter No. C:ESHQ(PI/EC): 2002-0010

Division of Air Pollution Control
Attention: Synthetic Minor FER
P.O. Box 1049
Columbus, Ohio 43215

Dear Coordinator:

FEE EMISSION REPORT - SYNTHETIC MINOR TITLE V

Enclosed is a printout of the 2001 electronic Fee Emission Report generated using the STARShip program for the Fernald Environmental Management Project (FEMP). The STARShip program has calculated total facility emissions of less than 10 tons for CY2001.

Two sources included in the CY 2000 Fee Emission Report (P284, The Respirator Washing Facility, and X002, the Building 11 Laundry Facility) did not operate in CY2001 and will no longer be included in the annual Fee Emission Reports.

If you have any questions, please contact Phillip Spotts, of my staff, at (513) 648-5295.

Sincerely,



Timothy A. Poff, Manager
Environmental Compliance

TAP:KOK:bci

Enclosure

- c: File Record Subject: Fee Emission Reports - Synthetic Minor Title V - 2001
- K. S. Fritts, MS52-9
- T. D. Hagen, MS65-2
- M. A. Jewett, MS52-5
- K. O. Klee, MS65-2
- L. E. Parsons, DOE Contracting Officer, MS45
- D. Sizemore, Fluor Fernald, Inc. Prime Contract, MS40
- E. P. Skintik, DOE-FEMP, MS45
- P. B. Spotts, MS65-2
- Administrative Record, MS78



State of Ohio Environmental Protection Agency

Facility Name: U.S. DEPT. OF ENERGY-FERNALD EVNR. MANAGEM

Facility ID: 14-31-11-0128

Title: 2001 SMTV FEE REPORT

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Emissions Reporting Form: Facility Information

Summary of emissions for all linked forms:

| Emissions Unit ID | SCC ID | PART | SO2 | NOx | CO | OC | VOC | Hg | Pb | As | Bz | Be | Ab | VC | PM10 |
|-------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| B006 | 1-02-005-01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| B006 | 1-02-006-02 | 0.01 | 0.00 | 0.12 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-03-001-01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-03-001-07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-06-001-30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-06-001-35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-06-003-05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| G001 | 4-06-003-06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| T160 | 4-03-010-19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| T160 | 4-03-010-21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| T160 | 4-03-012-06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| X001 | 1-02-005-01 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| X001 | 1-02-006-02 | 0.17 | 0.03 | 5.12 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Totals: | | 0.18 | 0.07 | 5.24 | 0.00 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Emissions Contacts | |
|---|--|
| <p>Contact Type: Fees</p> <p>First Name: Phillip Middle Name/Initial: B. Last Name: Spotts Address Line 1: P. O. Box 538704 Address Line 2:</p> | <p>Address City: Cincinnati City/Village/Township: OH ZIP Code: 45253 - 8704 Phone Number: (513) 648 - 5295</p> |
| <p>Contact Type: Inventory</p> <p>First Name: Phillip Middle Name/Initial: B. Last Name: Spotts Address Line 1: P. O. Box 538704 Address Line 2:</p> | <p>Address City: Cincinnati City/Village/Township: OH ZIP Code: 45253 - 8704 Phone Number: (513) 648 - 5295</p> |
| <p>Contact Type: Statement</p> <p>First Name: Phillip Middle Name/Initial: B. Last Name: Spotts Address Line 1: P. O. Box 538704 Address Line 2:</p> | <p>Address City: Cincinnati City/Village/Township: OH ZIP Code: 45253 - 8704 Phone Number: (513) 648 - 5295</p> |

THIS IS A SYNTHETIC MINOR FER

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Documents Linked To: 2001 SMTV FEE REPORT

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| Document Name | Emissions Unit ID |
|----------------------|-------------------|
| 2001-SMTV FEE - B006 | B006 |
| 2001-SMTV FEE - X001 | X001 |
| 2001-SMTV FEE - T160 | T160 |
| 2001-SMTV FEE - G001 | G001 |

000003

6. Emissions information: (continued)

SCC ID: 1-02-006-02 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 2.80000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 4.55400

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.01

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-006-02 Pollutant ID: Particulate Matter

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 3.00000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 4.55400

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.01

Supporting Emissions Calculation Data:

Autocalculate

000005

6. Emissions information: (continued)

SCC ID: 1-02-006-02 Pollutant ID: Sulfur dioxide

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.60000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 4.55400

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-005-01 Pollutant ID: Nitrogen oxides

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 20.00000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 0.00000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

000006

6. Emissions information: (continued)

SCC ID: 1-02-005-01 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.20000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 0.00000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-005-01 Pollutant ID: Lead

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.00040

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 0.00000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

000007

6. Emissions information: (continued)

SCC ID: **1-02-005-01** Pollutant ID: **Particulate Matter**

Emissions Method Description: **SCC Emissions Factor (autocalculate)**

Overall Efficiency Method: **Not applicable**

Auto-calculate Emissions? (Y/N): **Yes**

Emissions Factor: **2.00000**

Primary Control

Emissions Factor Units:

Equipment Description: **No Control Method**

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): **No**

Secondary Control

Equipment Description: **No Control Method**

Emissions Factor

Year Installed (Secondary):

Operating Rate: **0.00000**

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: **0.00**

1000 Gallons Burned

Annual Adjustment Factor: **0.00**

Emissions [tons/yr]: **0.00**

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: **1-02-005-01** Pollutant ID: **Sulfur dioxide**

Emissions Method Description: **SCC Emissions Factor (autocalculate)**

Overall Efficiency Method: **Not applicable**

Auto-calculate Emissions? (Y/N): **Yes**

Emissions Factor: **143.60000**

Primary Control

Emissions Factor Units:

Equipment Description: **No Control Method**

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): **No**

Secondary Control

Equipment Description: **No Control Method**

Emissions Factor

Year Installed (Secondary):

Operating Rate: **0.00000**

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: **0.00**

1000 Gallons Burned

Annual Adjustment Factor: **0.00**

Emissions [tons/yr]: **0.00**

Supporting Emissions Calculation Data:

Autocalculate

7. Summary for all SCC IDs:

| SCC ID | PART | SO2 | NOx | CO | OC | VOC | Hg | Pb | As | Bz |
|----------------|-------------|----------|-------------|----------|-------------|----------|----------|----------|----------|----------|
| 1-02-006-02 | 0.01 | 0 | 0.12 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 1-02-005-01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals: | 0.01 | 0 | 0.12 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |

000008

Schedule

8. Boiler design capacity/heat input: (MMBtu/hr) 9. Space heat: (%)

10. Annual throughput: 11. Normal operating schedule

 December - February: (%) Hours/day:

 March - May: (%) Days/week:

 June - August: (%) Weeks/year:

 September - November: (%)

12. Peak ozone season daily emissions rate: VOC: (lbs/day) Autocalculated

 NOx: (lbs/day)

Inventory

13. Construction date: 14. Modification date:

15. Shutdown date:

16. Emissions unit comments (optional):

17. Federally-enforceable operating restrictions:

Point Information

18. Emissions point centroid location:

UTM Zone Vertical Horizontal Lat/Long Degrees Minutes Seconds

Latitude:

Longitude:

19. Associated emissions egress point:

Emissions Egress Point ID:

Emissions Egress Point Type: Shape:

Geographical Preference: Emissions Egress Point Cross Sectional Area [sq ft]:

 UTM Zone: Emissions Egress Point Height [ft]:

 UTM Vertical: Emissions Egress Point Diameter [ft]:

 UTM Horizontal: Exit Gas Temperature at Maximum Operation [° F]:

 Longitude: Exit Gas Temperature at Average Operation [° F]:

 Longitude: Exit Gas Flow at Maximum Operation [acfm]:

 Longitude: Exit Gas Flow at Average Operation [acfm]:

 Latitude: Emission Egress Point Base Elevation [ft]:

 Latitude: Release Height [ft]:

 Latitude: Plume Temperature [° F]:

Continuous Emissions Recorder? (Y/N): Area of Emissions [sq ft]:

GEP Building Height [ft]:

GEP Building Length [ft]:

GEP Building Width [ft]:

000009

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Confidential Claims

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:

000010

5. Select an SCC ID and complete the table below: (continued)

SCC ID: 4-06-001-35

User Description for SCC (optional): **Balanced Submerged Filling**

SCC operating rate units: **1000 Gallons Transferred**

SCC Annual Operating Rate [SCC Units]: **41.46300**

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments:

SCC ID: 4-03-001-07

User Description for SCC (optional): **Above ground tank emissions**

SCC operating rate units: **1000 Gallons Storage Capacity**

SCC Annual Operating Rate [SCC Units]: **6.00000**

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments:

6. Emissions information:

SCC ID: 4-06-003-05 Pollutant ID: **Organic compounds**

Emissions Method Description: **SCC Emissions Factor (autocalculate)**

Overall Efficiency Method: **Estimated**

Auto-calculate Emissions? (Y/N): **Yes**

Emissions Factor: **1.00000**

Primary Control

Emissions Factor Units:

Equipment Description: **Submerged Filling**

lbs/1000 Gallons Transferred

Year Installed (Primary): **1995**

Factor Controlled? (Y/N): **No**

Secondary Control

Equipment Description: **No Control Method**

Emissions Factor

Year Installed (Secondary):

Operating Rate: **39.68800**

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: **63.00**

1000 Gallons Transferred

Annual Adjustment Factor: **0.00**

Emissions [tons/yr]: **0.01**

Supporting Emissions Calculation Data:

Autocalculate

000012

6. Emissions information: (continued)

SCC ID: 4-06-003-06 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Estimated

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.30000

Primary Control

Emissions Factor Units:

Equipment Description: Vapor Lock Balance Recovery System

lbs/1000 Gallons Throughput

Year Installed (Primary): 1995

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Operating Rate: 39.68800

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency:

Operating Rate Units:

Control Device Efficiency:

1000 Gallons Throughput

Overall Device Efficiency: 93.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 4-03-001-01 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 23.50000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Storage Capacity

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Operating Rate: 6.00000

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency:

Operating Rate Units:

Control Device Efficiency:

1000 Gallons Storage Capacity

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.07

Supporting Emissions Calculation Data:

Autocalculate

000013

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6. Emissions information: (continued)

SCC ID: 4-06-001-30 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Estimated

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.48000

Primary Control

Emissions Factor Units:

Equipment Description: Submerged Filling

lbs/1000 Gallons Transferred

Year Installed (Primary): 1995

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 41.46300

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Transferred

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.01

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 4-06-001-35 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.01000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Transferred

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 41.46300

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Transferred

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

000014

6. Emissions information: (continued)

SCC ID: 4-03-001-07 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.39000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Storage Capacity

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 6.00000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Storage Capacity

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

7. Summary for all SCC IDs:

| SCC ID | PART | SO2 | NOx | CO | OC | VOC | Hg | Pb | As | Bz |
|----------------|------|-----|-----|----|------|-----|----|----|----|----|
| 4-06-003-05 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 4-06-003-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4-03-001-01 | 0 | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0 | 0 |
| 4-06-001-30 | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 |
| 4-06-001-35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4-03-001-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals: | 0 | 0 | 0 | 0 | 0.09 | 0 | 0 | 0 | 0 | 0 |

Schedule

8. Boiler design capacity/heat input: (MMBtu/hr) 9. Space heat: (%)

10. Annual throughput: 11. Normal operating schedule

December - February: (%) Hours/day:

March - May: (%) Days/week:

June - August: (%) Weeks/year:

September - November: (%)

12. Peak ozone season daily emissions rate: VOC: (lbs/day) Autocalculated
 NOx: (lbs/day)

Inventory

13. Construction date: 14. Modification date:

15. Shutdown date:

16. Emissions unit comments (optional):

000015

17. Federally-enforceable operating restrictions:

Point Information

18. Emissions point centroid location:

UTM Zone Vertical Horizontal Lat/Long Degrees Minutes Seconds
Latitude:
Longitude:

19. Associated emissions egress point:

Emissions Egress Point ID:

Emissions Egress Point Type:

Shape:

Geographical Preference:

Emissions Egress Point Cross Sectional Area [sq ft]:

UTM Zone:

Emissions Egress Point Height [ft]:

UTM Vertical:

Emissions Egress Point Diameter [ft]:

UTM Horizontal:

Exit Gas Temperature at Maximum Operation [° F]:

Longitude:

Exit Gas Temperature at Average Operation [° F]:

Longitude:

Exit Gas Flow at Maximum Operation [acfm]:

Longitude:

Exit Gas Flow at Average Operation [acfm]:

Latitude:

Emission Egress Point Base Elevation [ft]:

Latitude:

Release Height [ft]:

Latitude:

Plume Temperature [° F]:

Continuous Emissions Recorder? (Y/N):

Area of Emissions [sq ft]:

GEP Building Height [ft]:

GEP Building Length [ft]:

GEP Building Width [ft]:

Confidential Claims

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:

000016

6. Emissions information:

SCC ID: 4-03-010-19 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.39000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Storage Capacity

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 10.00000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Storage Capacity

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 4-03-010-21 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.02000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Throughput

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 10.87000

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Throughput

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

000018

6. Emissions information: (continued)

SCC ID: 4-03-012-06 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.02200

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Throughput

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 10.87000

Control System Capture Efficiency:

Emissions Factor
Operating Rate Units:

Control Device Efficiency:

1000 Gallons Throughput

Overall Device Efficiency: 0.00

Emissions [tons/yr]: 0.00

Annual Adjustment Factor: 0.00

Supporting Emissions Calculation Data:

Autocalculate

7. Summary for all SCC IDs:

| SCC ID | PART | SO2 | NOx | CO | OC | VOC | Hg | Pb | As | Bz |
|-------------|------|-----|-----|----|----|-----|----|----|----|----|
| 4-03-010-19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4-03-010-21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4-03-012-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Schedule

8. Boiler design capacity/heat input: (MMBtu/hr)

9. Space heat: (%)

10. Annual throughput:

11. Normal operating schedule

December - February: (%)

Hours/day:

March - May: (%)

Days/week:

June - August: (%)

Weeks/year:

September - November: (%)

12. Peak ozone season VOC: (lbs/day)

Autocalculated

daily emissions NOx: (lbs/day)

rate:

Inventory

13. Construction date:

14. Modification date:

15. Shutdown date:

16. Emissions unit comments (optional):

000019

17. Federally-enforceable operating restrictions:

4192

Point Information

18. Emissions point centroid location:

UTM Zone Vertical Horizontal Lat/Long Degrees Minutes Seconds
Latitude:
Longitude:

19. Associated emissions egress point:

Emissions Egress Point ID:

Emissions Egress Point Type:

Shape:

Geographical Preference:

Emissions Egress Point Cross Sectional Area [sq ft]:

UTM Zone:

Emissions Egress Point Height [ft]:

UTM Vertical:

Emissions Egress Point Diameter [ft]:

UTM Horizontal:

Exit Gas Temperature at Maximum Operation [° F]:

Longitude:

Exit Gas Temperature at Average Operation [° F]:

Longitude:

Exit Gas Flow at Maximum Operation [acfm]:

Longitude:

Exit Gas Flow at Average Operation [acfm]:

Latitude:

Emission Egress Point Base Elevation [ft]:

Latitude:

Release Height [ft]:

Latitude:

Plume Temperature [° F]:

Continuous Emissions Recorder? (Y/N):

Area of Emissions [sq ft]:

GEP Building Height [ft]:

GEP Building Length [ft]:

GEP Building Width [ft]:

Confidential Claims

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:

000020



State of Ohio Environmental Protection Agency

Facility Name: U.S. DEPT. OF ENERGY-FERNALD EVNR. MANAGEM

Facility ID: 14-31-11-0128

Title: 2001-SMTV FEE - X001

4192

Emissions Reporting Form: Emissions Unit Information

General Information

1. Emissions form(s): Emissions fee report Emissions statement Emissions inventory
2. Reporting period: 2001
3. OEPA ID(s): NAT-GAS/OIL FIRED BOILER (B008)
NAT-GAS/OIL FIRED BOILER (B009)
NAT-GAS/OIL FIRED BOILER (B007)
4. Annual operating hours: 4,258

SCC Information

5. Select an SCC ID and complete the table below:

SCC ID: 1-02-006-02

User Description for SCC (optional): 15 MM Btu/hr Gas Fired Boiler

SCC operating rate units: Million Cubic Feet Burned

SCC Annual Operating Rate [SCC Units]: 110.91690

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments:

SCC ID: 1-02-005-01

User Description for SCC (optional): 15 MM Btu/hr Gas Fired Boiler

SCC operating rate units: 1000 Gallons Burned

SCC Annual Operating Rate [SCC Units]: 0.50700

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]: 0.03

SCC Comments:

6. Emissions information:

SCC ID: 1-02-006-02 Pollutant ID: Nitrogen oxides

Emissions Method Description: Source tests or other measurements

Overall Efficiency Method: Estimated

Auto-calculate Emissions? (Y/N): No

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: Modified Furnace/Burner Designer

Year Installed (Primary): 1996

Factor Controlled? (Y/N):

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate:

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 25.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 5.12

Supporting Emissions Calculation Data:

Obtained through Stack testing, NOs emissions are based on an emission factor of 0.088 lb NOx/MMBtu heat input.

000021

6. Emissions information: (continued)

SCC ID: 1-02-006-02 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 2.80000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Ibs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 110.91690

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.16

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-006-02 Pollutant ID: Particulate Matter

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 3.00000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Ibs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 110.91690

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.17

Supporting Emissions Calculation Data:

Autocalculate

000022

6. Emissions information: (continued)

SCC ID: 1-02-006-02 Pollutant ID: Sulfur dioxide

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.60000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Ibs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate: 110.91690

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.03

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-005-01 Pollutant ID: Nitrogen oxides

Emissions Method Description: Source tests or other measurements

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): No

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: Modified Furnace/Burner Designer

Year Installed (Primary): 1996

Factor Controlled? (Y/N):

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate:

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

The NOx emission factor is based upon factory test data (0.20 lb NOx/ MM Btu heat input).

000023

6. Emissions information: (continued)

SCC ID: 1-02-005-01 Pollutant ID: Organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.20000

Primary Control
Equipment Description: No Control Method

Emissions Factor Units:
lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control
Equipment Description: No Control Method

Emissions Factor
Operating Rate: 0.50700

Year Installed (Secondary):

Control System Capture Efficiency:

Emissions Factor
Operating Rate Units:

Control Device Efficiency:

1000 Gallons Burned

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-005-01 Pollutant ID: Lead

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 0.00040

Primary Control
Equipment Description: No Control Method

Emissions Factor Units:
lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control
Equipment Description: No Control Method

Emissions Factor
Operating Rate: 0.50700

Year Installed (Secondary):

Control System Capture Efficiency:

Emissions Factor
Operating Rate Units:

Control Device Efficiency:

1000 Gallons Burned

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

000024

6. Emissions information: (continued)

SCC ID: 1-02-005-01 Pollutant ID: Particulate Matter

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 2.00000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Emissions Factor

Equipment Description: No Control Method

Operating Rate: 0.50700

Year Installed (Secondary):

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.00

Supporting Emissions Calculation Data:

Autocalculate

SCC ID: 1-02-005-01 Pollutant ID: Sulfur dioxide

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

Auto-calculate Emissions? (Y/N): Yes

Emissions Factor: 143.60000

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

lbs/1000 Gallons Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Emissions Factor

Equipment Description: No Control Method

Operating Rate: 0.50700

Year Installed (Secondary):

Control System Capture Efficiency:

Emissions Factor

Control Device Efficiency:

Operating Rate Units:

Overall Device Efficiency: 0.00

1000 Gallons Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.04

Supporting Emissions Calculation Data:

Autocalculate

7. Summary for all SCC IDs:

| SCC ID | PART | SO2 | NOx | CO | OC | VOC | Hg | Pb | As |
|----------------|-------------|-------------|-------------|----------|-------------|----------|----------|----------|----------|
| 1-02-006-02 | 0.17 | 0.03 | 5.12 | 0 | 0.16 | 0 | 0 | 0 | 0 |
| 1-02-005-01 | 0 | 0.04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals: | 0.17 | 0.07 | 5.12 | 0 | 0.16 | 0 | 0 | 0 | 0 |

000025

4192

Schedule

8. Boiler design capacity/heat input: (MMBtu/hr) 9. Space heat: (%)

10. Annual throughput: 11. Normal operating schedule

 December - February: (%) Hours/day:

 March - May: (%) Days/week:

 June - August: (%) Weeks/year:

 September - November: (%)

12. Peak ozone season daily emissions rate: VOC: (lbs/day) Autocalculated

 NOx: (lbs/day)

Inventory

13. Construction date: 14. Modification date:

15. Shutdown date:

16. Emissions unit comments (optional):

17. Federally-enforceable operating restrictions:

Point Information

18. Emissions point centroid location:

UTM Zone Vertical Horizontal Lat/Long Degrees Minutes Seconds

Latitude:

Longitude:

19. Associated emissions egress point:

Emissions Egress Point ID:

Emissions Egress Point Type:

Shape:

Geographical Preference:

Emissions Egress Point Cross Sectional Area [sq ft]:

UTM Zone:

Emissions Egress Point Height [ft]:

UTM Vertical:

Emissions Egress Point Diameter [ft]:

UTM Horizontal:

Exit Gas Temperature at Maximum Operation [° F]:

Longitude:

Exit Gas Temperature at Average Operation [° F]:

Longitude:

Exit Gas Flow at Maximum Operation [acfm]:

Longitude:

Exit Gas Flow at Average Operation [acfm]:

Latitude:

Emission Egress Point Base Elevation [ft]:

Latitude:

Release Height [ft]:

Latitude:

Plume Temperature [° F]:

Continuous Emissions Recorder? (Y/N):

Area of Emissions [sq ft]:

GEP Building Height [ft]:

000026

GEP Building Length [ft]:

GEP Building Width [ft]:

Confidential Claims

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:

000027