



**Department of Energy**

**Ohio Field Office  
Fernald Area Office**  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155



**3397**

06 DEC 2000

06 DEC 2000

Ohio Environmental Protection Agency  
Division of Air Pollution Control  
Emissions Inventory Unit  
P. O. Box 1049  
Columbus, OH 43216-1049

DOE-0173-01

Dear Sir:

**RECEIPT SUBMISSION FOR FERNALD ENVIRONMENTAL MANAGEMENT PROJECT  
EMISSION STATEMENT - 1999**

Enclosed is the signed receipt for the Fernald Environmental Management Project Emission Statement - 1999. This statement was transmitted electronically to the Ohio Environmental Protection Agency Bulletin Board Service on November 14, 2000 and was assigned control number 0000011910.

If you have any questions, please contact Ed Skintik at (513) 648-3151.

Sincerely,

Stephen H. McCracken  
Director

FEMP:Skintik

Enclosure:

cc w/enclosure:  
K. Klee Fluor Fernald/MS65-2  
AR Coordinator/MS78

cc w/o enclosure:  
G. Gartrell, Fluor Fernald/MS-31  
T. Poff, Fluor Fernald/MS65-2  
P. Spotts, Fluor Fernald/MS65-2

Ohio EPA Bulletin Board Service Receipt Verification/Certification Regarding  
Content of the Electronically Transmitted Statement of Actual Emissions,  
Control Number : 0000011910

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U.S. DEPT. OF ENERGY-FERNALD EVNR.  
1431110128

Date and Time of Export: 11/8/2000 at 07:38 AM

Reporting Period: 1999

Signature for Statement:

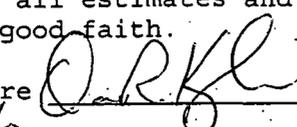
This statement shall be signed by the responsible party or the duly  
authorized representative of the party. In the case of:

- a) Corporation - by a principal executive officer of at least the level of  
vice-president, or a duly authorized representative for the facility from  
which the emissions originate.
- b) Partnership - by a general partner.
- c) Sole proprietorship - by the proprietor.
- d) Municipal, state, federal, or other government facility - by the principal  
executive officer, the ranking elected official, or duly authorized  
employee.

Knowingly presenting false or misleading information constitutes a violation  
of OAC CHAPTER 3745-24, and subjects the responsible party signing this

I, being the individual specified in OAC CHAPTER 3745-24, hereby affirm that  
the information contained within the Statement of Actual Emissions, which was  
electronically transmitted to Ohio EPA and identified as control number

0000011910, is true and complete to the best of my knowledge for each of  
the air emission units (sources) described within the Statement of Actual  
Emissions and that all estimates and judgements relating to such information  
have been made in good faith.

Authorized Signature  Total facility emissions:

Name (Please Print) STEPHEN H. MCCRACKEN Sum, in tons/yr, the emissions from  
all the air emissions units/groups

Title DIRECTOR VOC 6.40  
NOx 11.86

Date 12/6/00 The receipts should be sent to:  
Ohio EPA  
Division of Air Pollution Control  
Emissions Inventory Unit  
P.O. Box 1049  
Columbus, OH 43216-1049

There were a total of 7 emissions units/groups in this submittal.

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State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 99 EMISSIONSTATEMENT

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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	1-02-006-02	0.00	0.00	2.11	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
X002	1-02-006-02	0.00	0.00	3.69	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
X004	3-90-006-89	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Z003	3-99-999-93	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Z005	3-99-999-93	0.00	0.00	0.00	0.00	0.00	6.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Z006	3-99-999-93	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Z047	3-05-900-03	0.00	0.00	0.61	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Totals:		0.00	0.00	11.86	0.00	0.00	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Emissions Contacts

##### Contact Type: Fees

First Name: Spotts

Middle Name/Initial: B.

Last Name: Phillip

Address Line 1: Fluor Fernald

Address Line 2: P.O. Box 538704

Address City: Cincinnati

City/Village/Township: OH

ZIP Code: 45253 - 8704

Phone Number: (513) 648 - 5295

##### Contact Type: Inventory

First Name: Spotts

Middle Name/Initial: B.

Last Name: Phillip

Address Line 1: Fluor Fernald

Address Line 2: P.O. Box 538704

Address City: Cincinnati

City/Village/Township: OH

ZIP Code: 45253 - 8704

Phone Number: (513) 648 - 5295

##### Contact Type: Statement

First Name: Spotts

Middle Name/Initial: B.

Last Name: Phillip

Address Line 1: Fluor Fernald

Address Line 2: P.O. Box 538704

Address City: Cincinnati

City/Village/Township: OH

ZIP Code: 45253 - 8704

Phone Number: (513) 648 - 5295

Documents Linked To: 99 EMISSIONSTATEMENT

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Document Name	Emissions Unit ID
1999-ES-B006	B006
1999-ES-X002	X002
1999-ES-X004	X004
1999-ES-Z003	Z003
1999-ES-Z005	Z005
1999-ES-Z006	Z006
1999-ES-Z047	Z047



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-B006

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### Emissions Reporting Form: Emissions Unit Information

#### General Information

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory
2. Reporting period: 1999
3. OEPA ID(s): NAT-GAS FIRED BOILER (B006)
4. Annual operating hours: 2,807

#### SCC Information

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

SCC ID: 1-02-006-02

User Description for SCC (optional):

SCC operating rate units: Million Cubic Feet Burned

SCC Annual Operating Rate [SCC Units]: 82.03200

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

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: Not applicable

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

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: Miscellaneous Control Devices (Other)

Year Installed (Primary): 1992

Factor Controlled? (Y/N):

Secondary Control

Equipment Description: No Control Method

Emissions Factor

Year Installed (Secondary):

Operating Rate:

Control System Capture Efficiency: 100.00

Emissions Factor

Control Device Efficiency: 25.00

Operating Rate Units:

Overall Device Efficiency: 25.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 2.11

Supporting Emissions Calculation Data:

Obtained through stack testing, NOx emissions are based on an emission factor of 0.049 lb NOx/MMBtu heat input.

6. Emissions information: (continued)

SCC ID: 1-02-006-02 Pollutant ID: Volatile organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable **3397**

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: 82.03200

Control System Capture Efficiency: 100.00

Emissions Factor

Control Device Efficiency: 0.00

Operating Rate Units:

Overall Device Efficiency: 0.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.11

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	0	2.11	0	0	0.11	0	0	0	0
Totals:	0	0	2.11	0	0	0.11	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: 53.96 (%)

Hours/day: 24

March - May: 46.03 (%)

Days/week: 7

June - August: 0.00 (%)

Weeks/year: 52

September - November: 0.01 (%)

12. Peak ozone season daily emissions rate: VOC: 0.000 (lbs/day)  
 NOx: 0.000 (lbs/day)

Autocalculated

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: **33 97**  
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:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-X002

### Emissions Reporting Form: Emissions Unit Information

#### General Information

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory

2. Reporting period: 1999

3. OEPA ID(s): NAT-GAS FIRED BOILER (B008)  
NAT-GAS FIRED BOILER (B009)  
NAT-GAS FIRED BOILER (B007)

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4. Annual operating hours: 3,515

#### SCC Information

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

SCC ID: 1-02-006-02

User Description for SCC (optional):

SCC operating rate units: Million Cubic Feet Burned

SCC Annual Operating Rate [SCC Units]: 79.78500

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

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

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency: 100.00

Operating Rate:

Control Device Efficiency: 25.00

Emissions Factor

Overall Device Efficiency: 25.00

Operating Rate Units:

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 3.69

Supporting Emissions Calculation Data:

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

6. Emissions information: (continued)

SCC ID: 1-02-006-02      Pollutant ID: Volatile 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: lbs/Million Cubic Feet Burned

Equipment Description: No Control Method

Year Installed (Primary):      Factor Controlled? (Y/N): No

Secondary Control      Emissions Factor Operating Rate: 79.78500

Equipment Description: No Control Method

Year Installed (Secondary):      Emissions Factor Operating Rate Units: Million Cubic Feet Burned

Control System Capture Efficiency: 100.00      Emissions [tons/yr]: 0.11

Control Device Efficiency: 0.00

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Supporting Emissions Calculation Data:  
 Autocalculate

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7. Summary for all SCC IDs:

SCC ID	PART	SO2	NOx	CO	OC	VOC	Hg	Pb	As	Bz
1-02-006-02	0	0	3.69	0	0	0.11	0	0	0	0
Totals:	0	0	3.69	0	0	0.11	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: 30.90 (%)      Hours/day: 24

March - May: 12.46 (%)      Days/week: 7

June - August: 27.96 (%)      Weeks/year: 52

September - November: 28.67 (%)

12. Peak ozone season      VOC: 0.679 (lbs/day)       Autocalculated

daily emissions      NOx: 22.407 (lbs/day)

rate:

**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:

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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:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-X004

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### Emissions Reporting Form: Emissions Unit Information

#### General Information

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory
2. Reporting period: 1999
3. OEPA ID(s): NON-RAD CONTAMINATED LAUNDRY (P275)  
NON-RAD CONTAMINATED LAUNDRY (P287)  
RAD-CONTAMINATED LAUNDRY (P274)
4. Annual operating hours: 8,760

#### SCC Information

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

SCC ID: 3-90-006-89

User Description for SCC (optional):

SCC operating rate units: Million Cubic Feet Burned

SCC Annual Operating Rate [SCC Units]: 1.58900

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments:

6. Emissions information:

SCC ID: 3-90-006-89      Pollutant ID: Nitrogen oxides

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

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

Emissions Factor: 100.00000

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

Emissions Factor

Equipment Description: No Control Method

Operating Rate: 1.58900

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency: 0.00

Operating Rate Units:

Control Device Efficiency: 0.00

Million Cubic Feet Burned

Overall Device Efficiency: 0.00

Emissions [tons/yr]: 0.08

Annual Adjustment Factor: 0.00

Supporting Emissions Calculation Data:

Autocalculate

6. Emissions information: (continued)

SCC ID: 3-90-006-89 Pollutant ID: Volatile organic compounds

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Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Not applicable

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

Emissions Factor: 5.30000

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: 1.58900

Control System Capture Efficiency: 0.00

Emissions Factor

Control Device Efficiency: 0.00

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

7. Summary for all SCC IDs:

SCC ID	PART	SO2	NOx	CO	OC	VOC	Hg	Pb	As	Bz
3-90-006-89	0	0	0.08	0	0	0	0	0	0	0
Totals:	0	0	0.08	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: 26.87 (%)

Hours/day: 24

March - May: 24.17 (%)

Days/week: 7

June - August: 24.42 (%)

Weeks/year: 52

September - November: 24.54 (%)

12. Peak ozone season daily emissions rate: VOC: 0.000 (lbs/day)  
 NOx: 0.420 (lbs/day)

Autocalculated

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:

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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:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-Z003

### Emissions Reporting Form: Emissions Unit Information

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#### General Information

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory
2. Reporting period: 1999
3. OEPA ID(s): PERCHLORIC LAB HOOD SYSTEM (Z003)
4. Annual operating hours: 3,120

#### SCC Information

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

SCC ID: 3-99-999-93

User Description for SCC (optional):

SCC operating rate units: Parts Processed

SCC Annual Operating Rate [SCC Units]: 0.00000

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]: 0.000

Sulfur [%]:

SCC Comments: Laboratory operations

6. Emissions information:

SCC ID: 3-99-999-93 Pollutant ID: Nitrogen oxides

Emissions Method Description: Best engineering judgement

Overall Efficiency Method: Not applicable

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

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Year Installed (Primary):

Secondary Control

Equipment Description: No Control Method

Year Installed (Secondary):

Control System Capture Efficiency: 0.00

Control Device Efficiency: 0.00

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Factor Controlled? (Y/N):

Emissions Factor

Operating Rate:

Emissions Factor

Operating Rate Units:

Emissions [tons/yr]: 4.89

Supporting Emissions Calculation Data:

(0.093 lb NOx/hr-Hood)(3120 hr/yr)(1 ton/2000 lb)(12 Hoods)= 4.89 tons NOx/year  
(4.89 tons NOx/yr)(1 yr/365 days)(2000 lb/ton) = 26.79 lb NOx/day

7. Summary for all SCC IDs:

SCC ID	PART	SO2	NOx	CO	OC	VOC	Hg	Pb	As	Bz
3-99-999-93	0	0	4.89	0	0	0	0	0	0	0
Totals:	0	0	4.89	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: 25.00 (%)      Hours/day: 12  
     March - May: 25.00 (%)      Days/week: 5  
     June - August: 25.00 (%)      Weeks/year: 52  
     September - November: 25.00 (%)

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12. Peak ozone season daily emissions rate:      VOC: 0.000 (lbs/day)       Autocalculated  
     NOx: 26.790 (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:	Shape:
Emissions Egress Point Type:	Emissions Egress Point Cross Sectional Area [sq ft]:
Geographical Preference:	Emissions Egress Point Height [ft]:
UTM Zone:	Emissions Egress Point Diameter [ft]:
UTM Vertical:	Exit Gas Temperature at Maximum Operation [° F]:
UTM Horizontal:	Exit Gas Temperature at Average Operation [° F]:
Longitude:	Exit Gas Flow at Maximum Operation [acfm]:
Longitude:	Exit Gas Flow at Average Operation [acfm]:
Longitude:	Emission Egress Point Base Elevation [ft]:
Latitude:	Release Height [ft]:
Latitude:	Plume Temperature [° F]:
Latitude:	Area of Emissions [sq ft]:
Continuous Emissions Recorder? (Y/N):	
GEP Building Height [ft]:	
GEP Building Length [ft]:	
GEP Building Width [ft]:	

**Confidential Claims**

20. Complete the table below:

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Confidential item:

Basis for confidentiality claim:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-Z005

Emissions Reporting Form: Emissions Unit Information

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General Information

- 1. Emissions form(s): [ ] Emissions fee report [X] Emissions statement [ ] Emissions inventory
2. Reporting period: 1999
3. OEPA ID(s): ANALYTICAL LAB. GENERAL SYSTEM (Z005)
4. Annual operating hours: 3,120

SCC Information

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

SCC ID: 3-99-999-93

User Description for SCC (optional):

SCC operating rate units: Parts Processed

SCC Annual Operating Rate [SCC Units]: 0.00000

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]: 0.000

Sulfur [%]:

SCC Comments: Laboratory operations

6. Emissions information:

SCC ID: 3-99-999-93 Pollutant ID: Volatile organic compounds

Emissions Method Description: Best engineering judgement

Overall Efficiency Method: Not applicable

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

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Year Installed (Primary):

Factor Controlled? (Y/N):

Secondary Control

Equipment Description: No Control Method

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency: 0.00

Operating Rate:

Control Device Efficiency: 0.00

Emissions Factor

Overall Device Efficiency: 0.00

Operating Rate Units:

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 6.16

Supporting Emissions Calculation Data:

(3.95 lb VOC/hr)(3120 hr/yr)(1 ton/2000 lb) = 6.16 tons VOC/yr ----- (6.16 tons VOC/yr)(1 yr/365 days)(2000 lb/ton) = 33.76 lb VOC/day - Ozone season

7. Summary for all SCC IDs:

Table with 12 columns: SCC ID, PART, SO2, NOx, CO, OC, VOC, Hg, Pb, As, Bz. Row 1: 3-99-999-93, 0, 0, 0, 0, 0, 6.16, 0, 0, 0, 0. Row 2: Totals, 0, 0, 0, 0, 0, 6.16, 0, 0, 0, 0.

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**Schedule**

8. Boiler design capacity/heat input: (MMBtu/hr) 9. Space heat: (%) **3397**

10. Annual throughput: 11. Normal operating schedule

December - February: 25.00 (%) Hours/day: 12  
 March - May: 25.00 (%) Days/week: 5  
 June - August: 25.00 (%) Weeks/year: 52  
 September - November: 25.00 (%)

12. Peak ozone season daily emissions rate: VOC: 33.760 (lbs/day)  Autocalculated  
 NOx: 0.000 (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]:

**Confidential Claims**

3397

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-Z006

### Emissions Reporting Form: Emissions Unit Information

#### General Information:

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory **3397**
2. Reporting period: 1999
3. OEPA ID(s): BIOASSAY AND LOW-LEVEL LABS - (BLDG. 53) (Z006)
4. Annual operating hours: 8,760

#### SCC Information:

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

SCC ID: 3-99-999-93

User Description for SCC (optional):

SCC operating rate units: Parts Processed

SCC Annual Operating Rate [SCC Units]: 0.00000

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments:

6. Emissions information:

SCC ID: 3-99-999-93

Pollutant ID: Nitrogen oxides

Emissions Method Description: Best engineering judgement

Overall Efficiency Method: Not applicable

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

Emissions Factor:

Primary Control

Emissions Factor Units:

Equipment Description: No Control Method

Year Installed (Primary):

Factor Controlled? (Y/N):

Secondary Control

Equipment Description: No Control Method

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency: 0.00

Operating Rate:

Control Device Efficiency: 0.00

Emissions Factor

Overall Device Efficiency: 0.00

Operating Rate Units:

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.48

Supporting Emissions Calculation Data:

(210 Gal HNO3/yr)(8.34 lb/gal)(1.502s.g.)(50%)(lb-mole/63.02 lb HNO3)(46.01 lb NO2/mole HNO3) = 960.28 lb NO2/yr = 0.48 tons NO2/yr -----  
(0.48 tons NO2/yr)(1 yr/365 days)(2000 lb/ton) = 2.63 lb NO2/day - Ozone season

7. Summary for all SCC IDs:

SCC ID	PART	SO2	NOx	CO	OC	VOC	Hg	Pb	As	Bz
3-99-999-93	0	0	0.48	0	0	0	0	0	0	0
<b>Totals:</b>	<b>0</b>	<b>0</b>	<b>0.48</b>	<b>0</b>						

**Schedule**

8. Boiler design capacity/heat input: (MMBtu/hr)      9. Space heat: (%)      **8397**

10. Annual throughput:  
 December - February: 25.00 (%)  
 March - May: 25.00 (%)  
 June - August: 25.00 (%)  
 September - November: 25.00 (%)

11. Normal operating schedule  
 Hours/day: 24  
 Days/week: 7  
 Weeks/year: 52

12. Peak ozone season daily emissions rate:  
 VOC: 0.000 (lbs/day)       Autocalculated  
 NOx: 2.630 (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:	Shape:
Emissions Egress Point Type:	Emissions Egress Point Cross Sectional Area [sq ft]:
Geographical Preference:	Emissions Egress Point Height [ft]:
UTM Zone:	Emissions Egress Point Diameter [ft]:
UTM Vertical:	Exit Gas Temperature at Maximum Operation [° F]:
UTM Horizontal:	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**

**3397**

20. Complete the table below:

Confidential item:

Basis for confidentiality claim:



State of Ohio Environmental Protection Agency

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

Facility ID: 14-31-11-0128

Title: 1999-ES-Z047

### Emissions Reporting Form: Emissions Unit Information

#### General Information

3397

1. Emissions form(s):  Emissions fee report  Emissions statement  Emissions inventory

2. Reporting period: 1999

3. OEPA ID(s): WPRAP DRYERS (Z047)

4. Annual operating hours: 542

#### SCC Information

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

SCC ID: 3-05-900-03

User Description for SCC (optional): WPRAP Dryers -

SCC operating rate units: Million Cubic Feet Burned

SCC Annual Operating Rate [SCC Units]: 12.40300

Ash [%]:

Maximum Hourly Operating Rate [SCC Units]:

Sulfur [%]:

SCC Comments: Dryers have 16 burners each, total rating 25MM Btu/hr

6. Emissions information:

SCC ID: 3-05-900-03

Pollutant ID: Nitrogen oxides

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Estimated

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

Emissions Factor: 140.00000

Primary Control

Emissions Factor Units:

Equipment Description: Miscellaneous Control Devices (Other)

lbs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Equipment Description:

Emissions Factor

Year Installed (Secondary):

Operating Rate: 12.40300

Control System Capture Efficiency: 100.00

Emissions Factor

Control Device Efficiency: 30.00

Operating Rate Units:

Overall Device Efficiency: 30.00

Million Cubic Feet Burned

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.61

Supporting Emissions Calculation Data:

Autocalculate

6. Emissions information: (continued)

SCC ID: 3-05-900-03 Pollutant ID: Volatile organic compounds

Emissions Method Description: SCC Emissions Factor (autocalculate)

Overall Efficiency Method: Estimated

**3397**

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

Emissions Factor: 2.80000

Primary Control

Emissions Factor Units:

Equipment Description: Miscellaneous Control Devices (Other)

lbs/Million Cubic Feet Burned

Year Installed (Primary):

Factor Controlled? (Y/N): No

Secondary Control

Emissions Factor

Equipment Description:

Operating Rate: 12.40300

Year Installed (Secondary):

Emissions Factor

Control System Capture Efficiency: 100.00

Operating Rate Units:

Control Device Efficiency: 0.00

Million Cubic Feet Burned

Overall Device Efficiency: 0.00

Annual Adjustment Factor: 0.00

Emissions [tons/yr]: 0.02

Supporting Emissions Calculation Data:

Autocalculate

7. Summary for all SCC IDs:

SCC ID	PART	SO2	NOx	CO	OC	VOC	Hg	Pb	As	Bz
3-05-900-03	0	0	0.61	0	0	0.02	0	0	0	0
Totals:	0	0	0.61	0	0	0.02	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: 36.81 (%)

Hours/day: 24

March - May: 0.00 (%)

Days/week: 7

June - August: 0.33 (%)

Weeks/year: 52

September - November: 62.86 (%)

12. Peak ozone season daily emissions rate: VOC: 0.000 (lbs/day)  
 NOx: 0.040 (lbs/day)

Autocalculated

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:

3397

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: