

Fluor Fernald, Inc.
P.O. Box 538704
Cincinnati, OH 45253-8704

3574

(513)648-3000

FLUOR GLOBAL SERVICES

March 14, 2001

Fernald Environmental Management Project
Letter No. C: ESHQ(PI/EC):2001-0006

Ms. Susan L. Marshall, Environmental Technician 2
Hamilton County Department of Environmental Services
250 William Howard Taft Road
Cincinnati, Ohio 45219

Dear Ms. Marshall:

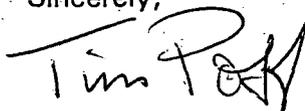
**HAMILTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES EMISSION
INVENTORY QUESTIONNAIRE - REPORTING YEAR 2000**

Reference: Letter, C. R. Chadwick to E. Fisher, "Facility Emission Inventory," dated
January 12, 2001

As requested in the referenced letter, enclosed is a completed Hamilton County
Department of Environmental Services Emission Inventory Questionnaire for Reporting
Year 2000.

If you have any questions concerning this questionnaire, please contact Ervin Fisher of my
staff at (513) 648-5293.

Sincerely,



Timothy A. Poff, Manager
Environmental Compliance

TAP:EF:jes
Enclosures

Susan L. Marshall

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- c: File Record Subject: Hamilton County Department of Environmental Services
Emission Inventory Questionnaire - Reporting Year 2000
R. E. Bauer, Fluor Fernald, Inc., MS69
E. Fisher, Fluor Fernald, Inc., MS65-2
E. P. Skintik, DOE-FEMP, MS45
P. B. Spotts, Fluor Fernald, Inc., MS65-2
Administrative Record, Fluor Fernald, Inc., MS78

HAMILTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
EMISSION INVENTORY QUESTIONNAIRE
STATIONARY COMBUSTION SOURCES

3574

Please complete this form with data representing operations for the calendar year listed above.

Facility Name:	Fernald Environmental Management Project
OEPA Premise Number	1431110128
Facility Mailing Address:	P.O. Box 538704 Cincinnati OH 45253-8704
Person Completing Form:	Ervin Fisher
Telephone Number:	(513) 648-5293
FAX Number:	(513) 648-5263
E-Mail Address:	Ervin.Fisher@Fernald.Gov

OEPA Source No. (i.e. B001)	B006	B007,8,&9
Company ID No.	10-007	10-009,10,11
Type of Fuel Used	Gas/Oil	Gas/Oil
Coal, tons/year	N/A	N/A
Oil (indicate type), gal/year	# 2 Oil - 80	# 2 Oil - 1715
Gas, Million cubic ft/year (please report mmcf)*	10.2761	101.4545
Other (indicate units) units/year	N/A	N/A
Fuel Sulfur Content % (as fired)	N/A / 0.02%	N/A / 0.02%
Ash % (as fired)	N/A / 0.01%	N/A / 0.01%
Fuel Heat Value (BTU/unit) as fired	1020 / 139505	1020 / 139505
Actual Collector Efficiency	N/A	N/A
Last Date Tested	N/A	N/A
% Annual Throughput During Each Quarter:		
January - March	3.1% / 0%	32.8% / 67.1%
April - June	0% / 0%	20.9% / 0%
July - September	0% / 0%	16.8% / 22.7%
October - December	96.9% / 100%	29.5% / 10.2%
Operating Schedule:		
Hours/Day	24	24
Days/Week	7	7
Weeks/Year (or Hours/Year)	52	52
Hours Source Operated Without Control Equip.	00	00

*Natural gas usage should be reported in million cf. The unit mcf is thousand cf.

COMMENTS: Information provided for both Natural gas and fuel oil. Natural gas information is provided followed by an / and then the information for No. 2 fuel oil.

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HAMILTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
EMISSION INVENTORY QUESTIONNAIRE
NESHAP EMISSIONS

3574

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OEPA Source No.	Z044	Z004	Z005/Z003
Company ID No.	20-006	15-001	15-002/15-003
Type of Process	Cooling Tower	Lab Analysis	Lab Analysis
Type of Activity	Water Cooling	Lab Samples	Lab Samples
Activity, Actual Annual (units/year)	45,747,000 gallons	8760 hrs.	8760 hrs.
Type of emissions	Radionuclide	Radionuclide	Radionuclide
Emission Factor	2.13E-12 Kg U/gal	9.99E-9 Kg U/hr	2.25E-6 Kg U/hr
Pollution Control Equipment/Efficiency	None	HEPA (99.97%)	None
% Annual Throughput During Each Quarter			
January - March	19.6%	25%	25%
April - June	26.4%	25%	25%
July - September	34.0%	25%	25%
October - December	20.0%	25%	25%
Actual Operating Schedule Hours/Day	24	24	24
Days/Week	7	7	7
Weeks/Year	52	52	52
Hours Source Operated Without Control Equipment	N/A	0	N/A

* Pollution control Equipment- Baghouse, cyclone, scrubber, etc., or none

COMMENTS: Cooling Tower emissions based on natural draft losses of 0.073 lbs water/ 1000 gallons processed and induced draft losses of 0.42 lbs water/ 1000 gallons processed by Uranium concentration in the water. Lab Analysis emissions for 15-002/003 based on stack tests in September 1993. Lab PTO applications submitted to DOES-AQM. Lab Analysis emissions from 15-001 based on prior results from discontinued. stack monitoring.

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EMISSION INVENTORY QUESTIONNAIRE
NESHAP EMISSIONS

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OEPA Source No.	Z006	P274	P284
Company ID No.	53-002	11-002	11-004
Type of Process	Lab Analysis	Clothes Dryers	Respirator Cleaning
Type of Activity	Lab Samples	Dry Clothes	Clean Respirators
Activity, Actual Annual (units/year)	5824 hrs.	564 hrs/yr	564 hrs/yr
Type of emissions	Radionuclide	Radionuclide	Radionuclide
Rate of emissions	9.44E-9 Kg U/hr	1.69E-8 Kg U/hr	2.66E-7 Kg U/hr
Pollution Control Equipment/Efficiency	NONE	HEPA (99.97%)	HEPA (99.97%)
% Annual Throughput During Each Quarter January - March	25%	100%	100%
April - June	25%	00%	00%
July - September	25%	00%	00%
October - December	25%	00%	00%
Actual Operating Schedule Hours/Day	16	24	24
Days/Week	7	5	7
Weeks/Year	52	5	5
Hours Source Operated Without Control Equipment	N/A	0	0

* Pollution control Equipment- Baghouse, cyclone, scrubber, etc., or none

COMMENTS: The PTO for the 7 Fume Hoods included as 53-002 have been submitted to DOES. PTO P274 emission rate base on results from continuous stack monitoring. PTO P284 rate based on results from stack testing in Sept. 1996. PTO P274 and P284 stopped operations In Feb. 2000.

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EMISSION INVENTORY QUESTIONNAIRE
NESHAP EMISSIONS

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OEPA Source No.	Z043	Z048	Z049
Company ID No.	51-040	91-002	80-001
Type of Process	Lab Analysis	Lab Analysis	Metal Repackaging
Type of Activity	Lab Samples	Lab Samples	Repackaging Booth
Activity, Actual Annual (units/year)	hrs 8760	2250 hrs	1560 hrs
Type of emissions	Radionuclide	Radionuclide	Radionuclide
Rate of emissions	4.064E-6 Kg U/hr	6.0E-12 Kg U/hr	3.87E-5 Kg U/hr
Pollution Control Equipment/Efficiency	None	HEPA (99.97%)	HEPA (99.97%)
% Annual Throughput During Each Quarter			
January - March	25%	25%	0%
April - June	25%	25%	33%
July - September	25%	25%	33%
October - December	25%	25%	34%
Actual Operating Schedule Hours/Day	24	10	8
Days/Week	7	5	5
Weeks/Year	52	51	39
Hours Source Operated Without Control Equipment	N/A	0	0

* Pollution control Equipment- Baghouse, cyclone, scrubber, etc., or none

COMMENTS: Z043 is the AWWT lab hoods. Results are based on engineering calculations for this source. Z048 is the WPRAP lab hoods. Results are based on engineering calculations for this source. Z049 is the CERCLA repackaging project located in Bldg. 81. Results are based on engineering calculations for this source.

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OEPA Source No.	Z026	Z047	Z051
Company ID No.	71-001	91-001	91-003
Type of Process	Material Sorting	Dryers	Clothes Drying
Type of Activity	Material Sorting	Material Drying	Drying Clothes
Activity, Actual Annual (units/year)	1664 Hrs	4112 Hrs	2274 Hrs
Type of emissions	Radionuclide	Radionuclide	Radionuclide
Rate of emissions	5.99E-9 Kg U/hr	5.13E-9 Kg U/hr	2.31E-8 Kg U/hr
Pollution Control Equipment/Efficiency	HEPA (99.97%)	HEPA (99.97%)	Lint Filter
% Annual Throughput During Each Quarter			
January - March	25%	29.2%	0%
April - June	25%	31.0%	0%
July - September	25%	20.8%	30.6%
October - December	25%	19.0%	69.4%
Actual Operating Schedule Hours/Day	8	24	24
Days/Week	4	5	5
Weeks/Year	52	52	52
Hours Source Operated Without Control Equipment	0	0	0

* Pollution control Equipment- Baghouse, cyclone, scrubber, etc., or none

COMMENTS: Z026 is the CERCLA sorting operation in Bldg. 71 that is emitted through a stack with sampler. Data is from continuous stack monitoring. Z047 is the WPRAP CERCLA project for drying pit material. Data is from continuous stack monitoring. Z051 is the clothes dryer for the WPRAP project. Results are based on engineering calculations for this source.

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OEPA Source No.	Z037	Z045	
Company ID No.	15-005	30-001	
Type of Process	Lab Analysis	Drum Sampling	
Type of Activity	Lab Samples	Sampling Residue	
Activity, Actual Annual (units/year)	520 Hrs	43 Hrs	
Type of emissions	Radionuclide	Radionuclides	
Rate of emissions	4.08e-7 Kg U/hr	1.77 E-7 Kg U/hr	
Pollution Control Equipment/Efficiency	HEPA (99.97%)	HEPA (99.97%)	
% Annual Throughput During Each Quarter			
January - March	0%	0%	
April - June	100%	34%	
July - September	0%	44%	
October - December	0%	22%	
Actual Operating Schedule Hours/Day	8	8	
Days/Week	5	4	
Weeks/Year	13	52	
Hours Source Operated Without Control Equipment	0	0	

* Pollution control Equipment- Baghouse, cyclone, scrubber, etc., or none

COMMENTS: Z037 is fume hoods running CERCLA samples. Results are based on engineering calculations of this source. Z045 is the Bldg 30 CERCLA drum sampling station. Results are based on engineering calculations of this source.

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