



P.O. Box 538704 Cincinnati, Ohio 45253-8704 (513) 648-3000

February 11, 1998

Fernald Environmental Management Project  
Letter No. C:FCDP(PSI):98-0009

Ms. Denise L. Bien, Environmental Technician 2  
Hamilton County Department of Environmental Services  
1632 Central Parkway, Room 201  
Cincinnati, Ohio 45210

Dear Ms. Bien:

**CONTRACT DE-AC24-92OH21972, EMISSION INVENTORY QUESTIONNAIRE - REPORTING  
YEAR 1997**

Reference: Letter, C. R. Chadwick to T. D. Hagen, "Facility Emission Inventory," dated  
January 27, 1998

As requested in the referenced letter, enclosed is a completed Emission Inventory Questionnaire  
for Reporting Year 1997.

Please change the contact for this questionnaire from Terry Hagen to Lewis Goidell at the  
following address:

Lewis C. Goidell, MS65-2  
1431110128  
Fluor Daniel Fernald  
P.O. Box 538704  
Cincinnati, OH 45253-8704

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Lewis C. Goidell' with a stylized flourish at the end.

Lewis C. Goidell, Manager  
Environmental Compliance  
Facilities Closure & Demolition Projects

LCG:EF:mhv  
Enclosure



Ms. Denise L. Bien  
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c: R. E. Bauer, FDF/MS69  
S. K. Holliday, FDF/MS69  
C. L. Turner, FDF/MS44-1, w/o enclosure  
E. P. Skintik, DOE-FEMP/MS45  
P. B. Spotts, FDF/MS65-2, w/o enclosure  
T. J. Walsh, FDF/MS65-2  
AR Coordinator/MS78  
PSI(EC) Files  
File Record Storage Copy 108.6

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

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

BUSINESS NAME Dept. of Energy (FEMP)  
 BUSINESS ADDRESS P. O. Box 538704 Cincinnati, Ohio 45253-8704  
 REPORTED BY Ervin Fisher  
 OEPA PREMISE NO. 1431110128 DATE February 10, 1998  
 TELEPHONE (513) 648-5293 FAX NUMBER (513) 648-5263

OEPA Source No. (i.e. B001)	B006	B007,8,&9
Company ID No.	10-007	10-007,8,&9
Type of Fuel Used	Gas/Oil	Gas/Oil
Coal, tons/year	N/A	N/A
Oil (indicate type), gal/year	# 2 Oil - 6760	# 2 Oil - 104
Gas, Million cubic ft/year (please report mmcf)	163.421	99.240
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 / 139582	1020 / 139582
Actual Collector Efficiency	N/A	N/A
Last Date Tested	N/A	N/A
% Annual Throughput During Each Quarter: January - March	55.7% / 0%	20.0% / 0%
April - June	22.9% / 0%	17.7% / 0%
July - September	0% / 0%	28.4% / 0%
October - December	21.4% / 100%	33.9% / 100%
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 a / and the information for No. 2 fuel oil.

MAIL TO: Hamilton County Department of Environmental Services  
 c/o Denise L. Bien, Environmental Technician 2  
 1632 Central Parkway  
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HAMILTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES  
EMISSION INVENTORY QUESTIONNAIRE  
NESHAP EMISSIONS

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

BUSINESS NAME Dept. of Energy (FEMP)  
 BUSINESS ADDRESS P. O. Box 538704 Cincinnati, Ohio 45253-8704  
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OEPA Source No.	2012	2004	2005/Z003
Company ID No.	Cooling Tower	15-001	15-002/003
Type of Process	Cooling Tower	Lab Analysis	Lab Analysis
Type of Activity	Water Cooling	Lab Samples	Lab Samples
Activity, Actual Annual (units/year)	351.5 hrs fan operation	8760 hrs.	8760 hrs.
Type of emissions	Rad	Rad	Rad
Emission Factor	8.13E-7 Kg U/hr	1.11E-8 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	0.7%	25.7%	25%
April - June	8.8%	25%	25%
July - September	82.5%	25%	25%
October - December	8.0%	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 loses of 0.073 lbs water/ 1000 gallons processed and induced draft losses of 1.7 lbs water/1000 gallons process 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 continuous stack monitoring.

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EMISSION INVENTORY QUESTIONNAIRE  
NESHAP EMISSIONS

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BUSINESS ADDRESS P. O. Box 538704 Cincinnati, Ohio 45253-8704  
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TELEPHONE (513) 648-5293 FAX NUMBER (513) 648-5263

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)	5840 hrs.	6240 hrs/yr	8760 hrs/yr
Type of emissions	Rad	Rad	Rad
Rate of emissions (includes daughters)	9.42E-9 Kg U/hr	2.86E-8 Kg U/hr	2.63E-7 Kg U/hr
Pollution Control Equipment/Efficiency	NONE	HEPA (99.97%)	HEPA (99.97%)
% Annual Throughput During Each Quarter January - March	25%	25%	25%
April - June	25%	25%	25%
July - September	25%	25%	25%
October - December	25%	25%	25%
Actual Operating Schedule Hours/Day	16	24	24
Days/Week	7	5	7
Weeks/Year	52	52	52
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.

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