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G-000-106 .61

**EMISSION INVENTORY QUESTIONNAIRE - REPORTING YEAR 1994**

02/22/95

C:EC:95-0031

FERMCO

HAMILTON COUNTY

8

LETTER



Restoration Management Corporation

P.O. Box 398704 Cincinnati, Ohio 45239-8704 (513) 738-6200

February 22, 1995

Fernald Environmental Management Project  
Letter No. C:EC:95-0031Ms. Denise L. Bien  
Environmental Technician II  
Department of Environmental Services  
1632 Central Parkway, Room 201  
Cincinnati, Ohio 45210

Dear Ms. Bien:

**CONTRACT DE-AC24-920H21972, EMISSION INVENTORY QUESTIONNAIRE - REPORTING YEAR 1994**

Reference: Letter, C. R. Chadwick to S. M. Beckman, "Facility Emission Inventory," dated January 3, 1995

As requested in the referenced letter, enclosed is a completed Emission Inventory Questionnaire for Reporting Year 1994.

If you have any questions concerning this Questionnaire, please contact Ervin Fisher at (513) 738-6053.

Sincerely,

A handwritten signature in black ink, appearing to read "Terence D. Hagen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Terence D. Hagen, Director  
Environmental ComplianceTDH:EF:mhv  
Enclosurec: S. M. Beckman, FERMCO/MS65-2, w/o attachments  
L. E. Parson, DOE Contract Specialist/MS45  
E. P. Skintik, DOE-FN/MS45  
P. B. Spotts, FERMCO/MS65-2, w/o attachments  
AR Coordinator/MS78  
File Record Storage Copy 108.6  
RTS Files

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

6620

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 45253-8704REPORTED BY Ervin FisherTELEPHONE (513) 738-6053OEPA PREMISE NO. 1431110128DATE February 16, 1995FAX NUMBER (513) 738-6236

OEPA Source No. (such as B001)	B001	B003		
Company ID No.	10-001	10-003		
Type of Fuel Used	Coal	Coal		
Coal, tons/year	14112	9129		
Oil (indicate type), gal/year	N/A	N/A		
Gas, Million cubic ft/year (please report mmcf)*	N/A	N/A		
Other (indicate units) units/year	N/A	N/A		
Fuel Sulfur Content % (as fired)	0.85 %	0.84 %		
Ash % (as fired)	10.31 %	10.52 %		
Fuel Heat Value (BTU/unit) as fired	12741	12608		
Actual Collector Efficiency	97.3	97.3		
Last Date Tested	4/7/88	4/7/88		
% Annual Throughput During Each Quarter				
January - March	24	56		
April - June	32	0		
July - September	31	0		
October - December	13	44		
Operating Schedule				
Hours/Day	24	24		
Days/Week	7	7		
Weeks/Year (or Hours/Year)	6196 hr	3209 hr		
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 on this form is derived from the Coal Quality and the Excess Opacity Reports. Collection Efficiency is based on results from latest Stack Test.

MAIL TO: Hamilton County Department of Environmental Services  
c/o Denise L. Bien, Environmental Technician  
1632 Central Parkway  
Cincinnati, Ohio 45210

revised 11/94

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**EMISSION INVENTORY QUESTIONNAIRE**  
Department of Environmental Services  
**NESHAP EMISSIONS**

**6620**

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 TELEPHONE (513) 738-6053  
 OEPA PREMISE NO. 1431110128 DATE February 16, 1995  
 FAX NUMBER (513) 738-6236

OEPA Source No.	P248	P239	P240	P274
Company ID No.	8-011	8-009	8-010	11-002
Type of Process	Vacuum Filter	Vacuum Filter	Vacuum Filter	Clothes Dryers
Type of Product	Filtrated Uranium	Filtrated Uranium	Filtrated Uranium	Dry Clothes
Production, Actual Annual (units/year)	3.49 lbs	3084 lbs	0.013 lbs	4160 hr/yr
Type of NESHAP emissions	Rad	Rad	Rad	Rad
Emission Factor	9.08E-5 Kg U/lb	9.08E-5 Kg U/lb	9.08E-5 Kg U/lb	6.88E-8 Kg U/hr
Pollution Control Equipment/Efficiency	None	None	None	HEPA (99.97 %)
% Annual Throughput During Each Quarter				
January - March	0	24.6	0	24.1
April - June	0	22.3	0	21.7
July - September	0	26.7	0	21.7
October - December	100	26.4	100	32.5
Actual Operating Schedule Hours/Day	16	16	16	16
Days/Week	5	5	5	5
Weeks/Year	52	52	52	52
Hours Source Operated Without Control Equipment	N/A	N/A	N/A	0

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

COMMENTS: P239, P240 and P248 emissions are based on estimates of gallons of water by average concentration by a correction factor for water exiting the stack. PTO P274 emission rate base on results from stack samples.

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Department of Environmental Services  
**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  
 REPORTED BY Ervin Fisher TELEPHONE (513) 738-6053  
 OEPA PREMISE NO. 1431110128 DATE February 16, 1995  
 FAX NUMBER (513) 738-6236

OEPA Source No.	NONE	SUBMITTED	SUBMITTED
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)	162.25 hrs fan operation	8760 hrs.	8760 hrs.
Type of emissions	Rad	Rad	Rad
Emission Factor	6.29E-6 Kg U/hr	5.32E-8 Kg U/hr	4.98E-6 Kg U/hr
Pollution Control Equipment/Efficiency	None	HEPA (99.97%)	None
% Annual Throughput During Each Quarter			
January - March	0	25	25
April - June	31.3	25	25
July - September	68.7	25	25
October - December	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 engineering calculation for drift loss factor of 0.003 times flow times avg. Uranium concentration. 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 stack sampling

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Department of Environmental Services  
**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

REPORTED BY Ervin Fisher TELEPHONE (513) 738-6053

OEPA PREMISE NO. 1431110128 DATE February 16, 1995

FAX NUMBER (513) 738-6236

OEPA Source No.	T111	T112	T159
Company ID No.	65-001	65-002	65-003
Type of Process	Radium Storage	Radium Storage	Metal Oxide
Type of Activity	Radon Release	Radon Release	Radon Release
Activity, Actual Annual (units/year)	Continuous	Continuous	Continuous
Type of emissions	Rad	Rad	Rad
Rate of emissions (includes daughters)	Estimated at 2.5 Ci/yr	Estimated at 2.5 Ci/yr	Estimated at 0.9 Ci/yr
Pollution Control Equipment/Efficiency	Bentonite Cap 99.24%	Bentonite Cap 99.24%	None
% Annual Throughput During Each Quarter	N/A	N/A	N/A
January - March	N/A	N/A	N/A
April - June	N/A	N/A	N/A
July - September	N/A	N/A	N/A
October - December	N/A	N/A	N/A
Actual Operating Schedule Hours/Day	24	24	24
Days/Week	7	7	7
Weeks/Year	52	52	52
Hours Operated Without Control Equipment	N/A	N/A	N/A

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

COMMENTS: Emission estimate for the K65 Silo #3 is based on best engineering judgement using Ideal Gas Law and radon concentrations of 3.0 E5 pCi/L. Emission estimates for T111 and T112 are based on best engineering judgement comparing the radon flux from the bare and covered residues.

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 REPORTED BY Ervin Fisher TELEPHONE (513) 738-6053  
 OEPA PREMISE NO. 1431110128 DATE February 16, 1995  
 FAX NUMBER (513) 7386236

OEPA Source No.	SUBMITTED	SUBMITTED		
Company ID No.	53-002	20-006		
Type of Process	Lab Analysis	Lab Analysis		
Type of Activity	Lab Samples	Lab Samples		
Activity, Actual Annual (units/year)	8760 hrs.	8760 hrs.		
Type of emissions	Rad	Rad		
Rate of emissions (includes daughters)	7.99E-8 Kg U/hr	1.37E-9 Kg U/hr		
Pollution Control Equipment/Efficiency	NONE	NONE		
% Annual Throughput During Each Quarter				
January - March	25%	25%		
April - June	25%	25%		
July - September	25%	25%		
October - December	25%	25%		
Actual Operating Schedule Hours/Day	24	24		
Days/Week	7	7		
Weeks/Year	52	52		
Hours Source Operated Without Control Equipment	N/A	N/A		

\* 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. The PTO for the Water Plant Fume Hood has been submitted.

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