

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Nucléar Fuel Services, Inc. P.O. Box 337, MS 123 Erwin: TN 37650

(615) 743-9141

21G-94-0137 GOV-01-60 ACF-94-215

August 29, 1994

Mr. Stewart D. Ebneter, Regional Administrator U. S. Nuclear Regulatory Commission Office of Inspection and Enforcement 101 Marietta Street, NW, Suite 2900 Atlanta, GA 30323

REFERENCE:

- 1) DOCKET 70-143/SNM-124
- 2) ORIGINAL SEMI-ANNUAL EFFLUENT LOSS REPORT SUBMITTAL (21G-93-0143)

SUBJECT:

BI-ANNUAL EFFLUENT MONITORING REPORT (JANUARY - JUNE, 1994)

Dear Mr. Ebneter:

In accordance with the requirements set forth in Title 10 CFR, Part 70.59, Nuclear Fuel Services, Inc., (NFS) submits the attached report (Attachment A) of its effluent monitoring for the period January-June 1994.

Included as Attachment B is the amended Effluent Monitoring Report for the first half of 1993. This constitutes a final effluent release report based upon complete isotopic data sets.

If you have any questions or need further information, please contact Ms. B. M. Moore, Environmental Manager at (615) 743-1737, or me. Please reference our unique document identification number (21G-94-0137) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

A. M. Maxin Vice President

Safety and Regulatory

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Attachment

cc: Director, Office of Nuclear Material Safety and Safeguards

U. S. Nuclear Regulatory Commission Washington, DC 20555 Mr. Robert C. Pierson, Chief Licensing Branch Division of Fuel Cycle Safety and Safeguards U.S. Nuclear Regulatory Commission

Washington, DC 20555

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ATTACHMENT A To Lever Dated August 29, 1994

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NUCLEAR FUEL SERVICES, INC. Erwin, Tennessee

REPORT OF EFFLUENT MONITORING AND RELEASE TO UNRESTRICTED AREAS

License No.: SNM-124

Period Covered:

JANUARY 1, 1994

Docket No.: 70-143

JUNE 30, 1994

I. Gaseous Effluents

Radionuclide	Quantity Released (Curies)		
Uranium-234	3.25E-05	+/-	3.03E-06
Uranium-235	5.72E-07	+/-	5.37E-08
Uranium-236	3.57E-09	+/-	5.46E-10
Uranium-238	3,33E-07	+/-	4.51E-08
Plutonium-238	1.69E-09	+/-	4.29E-10
Plutonium-239	9.03E-10	+/-	2.30E-10
Plutonium-240	8.15E-10	+/-	2.07E-10
Plutonium-241	1.11E-07	+/-	2.83E-08
Plutonium-242	1.16E-12	+/-	2.95E-13
Americium-241	1.04E-09	+/-	2.65E-10
Thorium-228	6.03E-07	+/-	2.01E-08
Thorium-230	1,91E-07	+/-	6.38E-09
Thorium-232	6.68E-07	+/-	2.23E-08

II. Liquid Effluents

Radionuclide

Uranium-234	1.20E-02	+/-	7.21E-04
Uranium-235	3.60E-04	+/-	2.70E-05
Uranium-238	1.81E-03	+/-	1.30E-04
Thorium-228	4,45E-05	+/-	7.66E-06
Thorium-230	3.81E-05	+/-	5.74E-06
Thorium-232	4.30E-05	+/-	6.05E-06
Thorium-234	2.89E-03	+/-	2.01E-04
Plutonium-258	2.26E-05	+/-	4.96E-06
Plutonium-239	4.09E-04	+/-	7.90E-05
Technetium-99	2.16E-03	+/-	1.30E-04

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ATTACHMENT B To Letter Dated August 29, 1994 A. M. Maxin to Mr. Stewart Ebneter

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In accordance with the requirements set forth in Title 10 CFR, Part 70.59, Nuclear Fuel Services, Inc., (NFS) submits the amended report of its effluent monitoring at the Erwin, Tennessee plant for the period covering January through June, 1993.

Some of the liquid effluent monitoring data were estimated for the original report by averaging the available isotopic ratios per the given stream for the period. This was necessary because the specified isotopic data had not been received from our contract laboratory.

The present amended report fulfills our commitment to provide an update upon receipt of the outstanding isotopic results.

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NUCLEAR FUEL SERVICES, INC. Erwin, Tennessee

REPORT OF EFFLUENT MONITORING AND RELEASE TO UNRESTRICTED AREAS

License No.: SNM-124

Period Covered:

JANUARY 1, 1993

Docket No.: 70-143

JUNE 30, 1993

I. Gaseous Effluents

Radionuclide	Quantity Released (Curies)			
Uranium-234	7.60E-04	±	1.31E-05	
Uranium-235	1.27E-05	±	2.25E-07	
Uranium-236	5.61E-08	±	1.33E-09	
Uranium-238	3.22E-07	±	4.85E-08	
Plutonium-238	1.51E-08	±	1.02E-09	
Plutonium-239	8.10E-09	±	5.44E-10	
Plutonium-240	7.31E-09	±	4.91E-10	
Plutonium-241	9.99E-07	±	6.71E-08	
Plutonium-242	1.04E-11	±	6.98E-13	
Americium-241	9.34E-09	±	6.27E-10	

II. Liquid Effluents

Radionuclide

1.33E-02	±	1.35E-03
4.06E-04	±	5,31E-05
8.45E-04	±	8.06E-05
1.55E-04	±	2,35E-05
7.49E-05	±	6.16E-06
7.28E-05	±	7.55E-06
1.41E-03	±	3.60E-04
1.36E-04	±	1.07E-05
1.48E-03	<u>±</u> :	1.99E-04
3.87E-02	±	4.93E-03
	4.06E-04 8.45E-04 1.55E-04 7.49E-05 7.28E-05 1.41E-03 1.36E-04 1.48E-03	4.06E-04 ± 8.45E-04 ± 1.55E-04 ± 7.49E-05 ± 7.28E-05 ± 1.41E-03 ± 1.36E-04 ± 1.48E-03 ±