



21G-88-0086
 GOV-01-55-03
 ACF1207 ✓
 August 29, 1988

Nuclear Fuel Services, Inc.
 205 Barrer Hill Rd.
 Erwin, TN 37650
 (615) 743-9141

ACR	REG
DIS	CON
MR(2)	CEJ
CLJ	SCJ
REKVI	SLJ
JAL	REALTS
LS	SW
RLB	DEB
ROB	DEK
CEB	AWB
SLB	TPB
NES	Orig. CAH
CLB	See Cont.
DFB	Chron
DLG	File

**CERTIFIED MAIL
 RETURN RECEIPT REQUESTED**

U.S. Nuclear Regulatory Commission
 Office of Inspection & Enforcement
 101 Marietta Street, NW, Suite 2900
 Atlanta, Georgia 30323

Attention: Dr. J. Nelson Grace, Regional Administrator

Reference: (1) Docket No. 70-143/SNN-124

Gentlemen:

In accordance with the requirements set forth in Title 10 CFR, Part 70.59, Nuclear Fuel Services, Inc., submits the attached report of its effluent monitoring at the Erwin, Tennessee, plant for the period covering January through June 1988.

A review of the data NFS has reported in the last two years for Uranium-236 indicates that this isotope contributes less than 0.1% of the total uranium activity in our effluents. NFS, therefore, does not consider U-236 to be a "principal radionuclide" as specified in 10 CFR 70.59(a)(1) and with this report will discontinue reporting this isotope. This position is consistent with the guidance provided in Regulatory Guide 4.16 and was discussed with USNRC-Region II. NFS will, however, continue to monitor the U-236 analysis results on our feed material and reconsider this position if its contribution becomes significant.

Please contact us if you have any questions regarding this report.

Yours very truly,


 B. E. Knight
 Director of Safety

BEK:CAH:rej REEL #
 Attachment

FRAME #

cc: Director, Office of Nuclear Material Safety & Safeguards
 U.S. Nuclear Regulatory Commission
 Washington, DC 20555

Mr. Leland C. Rouse, Chief
 Fuel Cycle Safety Branch
 Division of Industrial, & Medical,
 Nuclear Safety, NMSS
 U.S. Nuclear Regulatory Commission
 Washington, DC 20555

Mr. T. D. Lee, NRC Resident Inspector

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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, 1988 thru
Docket No.: 70-143 JUNE 30, 1988

I. Gaseous Effluents

Radionuclide	Quantity Released (Curies)		
Uranium-234	9.32E-04	+/-	1.62E-04
Uranium-235	1.92E-05	+/-	2.25E-06
Uranium-238	3.26E-06	+/-	1.67E-06
Plutonium-238	1.87E-08	+/-	3.93E-09
Plutonium-239	1.88E-08	+/-	2.10E-09
Plutonium-240	9.85E-09	+/-	1.92E-09
Plutonium-241	1.24E-06	+/-	2.59E-07
Plutonium-242	1.29E-11	+/-	2.69E-12
Americium-241	1.16E-08	+/-	2.42E-09

II. Liquid Effluents

Radionuclide	Quantity Released (Curies)		
Uranium-234	1.88E-02	+/-	1.42E-03
Uranium-235	7.93E-04	+/-	1.76E-04
Uranium-238	8.25E-04	+/-	1.96E-04
Thorium-228	1.17E-04	+/-	4.87E-05
Thorium-230	1.13E-04	+/-	5.03E-05
Thorium-232	3.66E-05	+/-	1.63E-05
Thorium-234	8.88E-04	+/-	1.31E-04
Plutonium-238	4.25E-06	+/-	2.73E-06
Plutonium-239	3.35E-06	+/-	2.15E-06
Technetium-99	5.54E-02	+/-	2.17E-03