



21G-89-0049
GOV-01-55-03
ACF1531 ✓

Nuclear Fuel Services, Inc.
205 Banner Hill Rd.
Erwin, TN 37650
(615) 43-9141

AUGUST 29, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
SUITE 2900
101 MARIETTA STREET, NW
ATLANTA, GA 30323

Attention: Steward Ebnetter
Regional Administrator

Reference: (1) Docket No. 70-143/SNM-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 1989. Please contact us if you have any questions regarding this report.

Use our unique identification number (21G-89-0049) in any correspondence concerning this letter.

Sincerely,


B. E. Knight
Director of Safety

BEK/CAH:bjf2

Attachment

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

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

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NUCLEAR FUEL SERVICES, INC
Erwin, Tennessee

REPORT OF EFFLUENT MONITORING
AND
RELEASE TO UNRESTRICTED AREAS

License No.: SNM-124
Docket No.: 70-143

Period Covered: JANUARY 1, 1989 thru
JUNE 30, 1989

I. Gaseous Effluents

| Radionuclide | Quantity Released (Curies) | | |
|---------------|----------------------------|-----|----------|
| Uranium-234 | 1.53E-03 | +/- | 1.05E-04 |
| Uranium-235 | 2.88E-05 | +/- | 1.99E-06 |
| Uranium-236 | 1.51E-07 | +/- | 1.05E-08 |
| Uranium-238 | 3.04E-07 | +/- | 2.60E-08 |
| Plutonium-238 | 1.06E-08 | +/- | 3.22E-09 |
| Plutonium-239 | 5.70E-09 | +/- | 1.72E-09 |
| Plutonium-240 | 5.14E-09 | +/- | 1.56E-09 |
| Plutonium-241 | 7.03E-07 | +/- | 2.12E-07 |
| Plutonium-242 | 7.31E-12 | +/- | 2.21E-12 |
| Americium-241 | 6.57E-09 | +/- | 1.99E-09 |

II. Liquid Effluents

| Radionuclide | Quantity Released (Curies) | | |
|---------------|----------------------------|-----|----------|
| Uranium-234 | 3.41E-02 | +/- | 6.35E-03 |
| Uranium-235 | 1.24E-03 | +/- | 1.20E-04 |
| Uranium-238 | 1.71E-03 | +/- | 2.47E-04 |
| Thorium-228 | 9.81E-05 | +/- | 2.69E-04 |
| Thorium-230 | 1.93E-04 | +/- | 3.03E-04 |
| Thorium-232 | 4.02E-05 | +/- | 3.98E-05 |
| Thorium-234 | 1.60E-03 | +/- | 3.62E-04 |
| Plutonium-238 | 7.38E-06 | +/- | 2.38E-06 |
| Plutonium-239 | 2.73E-05 | +/- | 1.24E-04 |
| Technetium-99 | 5.00E-02 | +/- | 1.35E-02 |