



70-143

Nuclear Fuel Services, Inc. ERWIN, TENNESSEE 37650

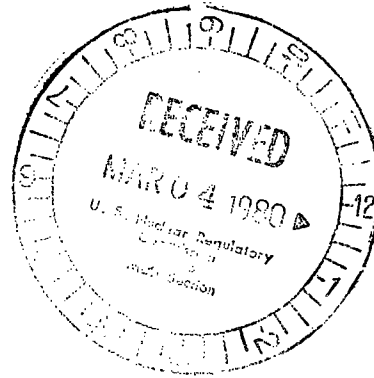
A Subsidiary of Getty Oil Company

(615) 743-914

February 26, 1980

REGULATORY OPERATIONS
FILE COPY

Director, Region II
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303



Reference: 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 July, 1979, to December, 1979. Please contact us if you have any questions regarding this report.

Yours very truly,

C. J. Michel
Administrative Manager

CJM/h1

Attachment

cc: Director of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555



FEE EXEMPT

15629

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: July 1, 1979 to
December 31, 1979

I. GASEOUS EFFLUENTS

<u>Radionuclide</u>	<u>Quantity Released (Curies)</u>
Uranium-233	$6.82 \times 10^{-6} (\pm 9.27 \times 10^{-6})$
Uranium-234	$6.57 \times 10^{-2} (\pm 3.37 \times 10^{-3})$
Uranium-235	$1.51 \times 10^{-3} (\pm 8.10 \times 10^{-5})$
Uranium-236	$1.59 \times 10^{-5} (\pm 1.15 \times 10^{-6})$
Uranium-238	$1.89 \times 10^{-4} (\pm 4.64 \times 10^{-5})$
Plutonium-238	$2.81 \times 10^{-8} (\pm 7.75 \times 10^{-9})$
Plutonium-239	$1.51 \times 10^{-8} (\pm 4.15 \times 10^{-9})$
Plutonium-240	$1.36 \times 10^{-8} (\pm 3.75 \times 10^{-9})$
Plutonium-241	$1.86 \times 10^{-6} (\pm 5.12 \times 10^{-7})$
Plutonium-242	$1.93 \times 10^{-11} (\pm 5.32 \times 10^{-12})$
Americium-241	$1.74 \times 10^{-8} (\pm 4.78 \times 10^{-9})$

II. LIQUID EFFLUENTS

<u>Radionuclide</u>	<u>Quantity Released (Curies)</u>
Uranium-234	$8.50 \times 10^{-2} (\pm 1.21 \times 10^{-2})$
Uranium-235	$2.25 \times 10^{-3} (\pm 3.90 \times 10^{-4})$
Uranium-236	$2.64 \times 10^{-5} (\pm 3.00 \times 10^{-6})$
Uranium-238	$1.28 \times 10^{-3} (\pm 1.85 \times 10^{-3})$
Thorium-228	$5.80 \times 10^{-4} (\pm 2.83 \times 10^{-3})$
Thorium-230	$1.56 \times 10^{-4} (\pm 7.60 \times 10^{-4})$
Thorium-232	$1.17 \times 10^{-4} (\pm 5.69 \times 10^{-4})$
Thorium-234	$1.92 \times 10^{-3} (\pm 2.88 \times 10^{-4})$
Plutonium-238	$7.84 \times 10^{-5} (\pm 3.82 \times 10^{-4})$
Plutonium-239	$3.53 \times 10^{-5} (\pm 1.72 \times 10^{-4})$
Technetium-99	$2.12 \times 10^{-2} (\pm 3.23 \times 10^{-4})$

NOTE: Value in parenthesis indicates counting error at the 95% confidence level.