



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

Global Nuclear Fuel – Americas, LLC
Castle Hayne Road, Wilmington, NC 28401

February 26, 2004

Mr. L. A. Reyes
Regional Administrator
U.S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303

Dear Mr. Reyes:

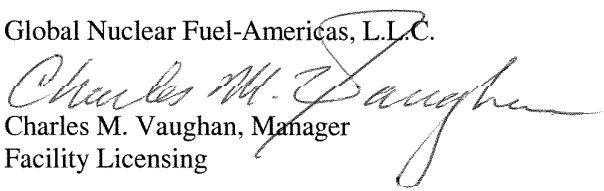
Reference: NRC License SNM-1097. Docket 70-1113

With respect to activities authorized by NRC License SNM-1097 at the Global Nuclear Fuel-Americas, L.L.C. (GNF-A) facility and pursuant to 10 CFR 70.59, GNF-A hereby submits the Semi-annual Effluent Report for the time period of July through December, 2003.

If you have any questions regarding this matter, please contact me at (910) 675-5656.

Sincerely,

Global Nuclear Fuel-Americas, L.L.C.


Charles M. Vaughan, Manager
Facility Licensing

Enclosure

cc:

CMV-04-008

Mr. Martin Virgilio
Director, Nuclear Materials Safety & Safeguards
US NRC, Washington, DC 20555-0001

Ms. Beverly Hall, NCDENR, Radiation Protection Section
Raleigh, NC 27611-7687

Mr. Mark Poirier, ANI
West Hartford, CT 06107-2430

GLOBAL NUCLEAR FUEL-AMERICAS, L.L.C.
WILMINGTON, NORTH CAROLINA

NRC License SNM 1097, Docket # 70-1113

SEMI-ANNUAL EFFLUENT REPORT

July 2003 – December 2003
Fiscal Weeks 27-52

I. GASEOUS EFFLUENT-PARTICULATE

NUCLIDES	QUANTITY-CURIES
U234	<u>7.19E-06</u>
U235	<u>3.12E-07</u>
U236	<u>1.52E-08</u>
U238	<u>1.01E-06</u>
TOTAL U	8.53E-06

- ◆ EXHAUST VOLUME 1.77E+15 (cc)
- ◆ AVERAGE CONCENTRATION FOR ALL STACKS 4.82E-15 (μCi/cc)
- ◆ SAMPLING IS CONTINUOUS.
- ◆ LOWER LEVEL OF DETECTION: 1E-14 μCi/ml.
- ◆ ABNORMAL RELEASES:
TOTAL NUMBER OF RELEASES = 0
TOTAL ACTIVITY RELEASED = 0

II. LIQUID EFFLUENT

NUCLIDES	QUANTITY-CURIES
U234	<u>1.81E-02</u>
U235	<u>7.83E-04</u>
U236	<u>3.82E-05</u>
U238	<u>2.53E-03</u>
TOTAL U	<u>2.14E-02</u>

- ◆ SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.
- ◆ TOTAL VOLUME OF LIQUID EFFLUENT 3.25E+08 (liters)
- ◆ ABNORMAL RELEASES
TOTAL NUMBER OF RELEASES = 0
TOTAL ACTIVITIES RELEASED = 0