



## Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

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

February 24, 2003

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:

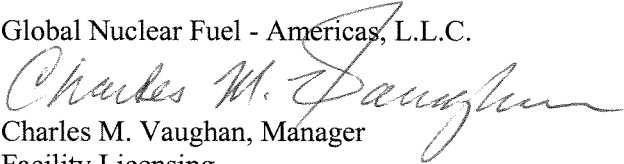
Reference: NRC License SNM-1097, Docket 70-1113

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, 2002.

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-03-004

Mr. Martin Virgilio  
Director, Office of Nuclear Material 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 2002 – December 2002  
Fiscal Weeks 27-52

**I. GASEOUS EFFLUENT-PARTICULATE**

NUCLIDES	QUANTITY-CURIES
U234	<u>8.05E-06</u>
U235	<u>3.07E-07</u>
U236	<u>1.71E-08</u>
U238	<u>1.04E-06</u>
TOTAL U	9.42E-06

- ♦ EXHAUST VOLUME 1.87E+15 (cc)
- ♦ AVERAGE CONCENTRATION FOR ALL STACKS 5.03E-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>1.07E-02</u>
U235	<u>4.10E-04</u>
U236	<u>2.28E-05</u>
U238	<u>1.39E-03</u>
TOTAL U	<u>1.25E-02</u>

- ♦ SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.
- ♦ TOTAL VOLUME OF LIQUID EFFLUENT 3.12E+08 (liters)
- ♦ ABNORMAL RELEASES  
TOTAL NUMBER OF RELEASES = 0  
TOTAL ACTIVITIES RELEASED = 0