



**Global Nuclear Fuel**

A Joint Venture of GE, Toshiba, & Hitachi

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

August 26, 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:

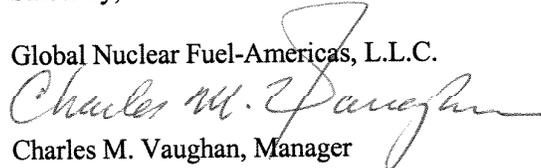
Reference: NRC License SNM-1097, Docket 70-1113

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 January through June, 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-03-039

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**

January 2003 – June 2003  
Fiscal Weeks 1-26

**I. GASEOUS EFFLUENT-PARTICULATE**

<b>NUCLIDES</b>	<b>QUANTITY-CURIES</b>
U234	<u>6.21E-06</u>
U235	<u>2.37E-07</u>
U236	<u>1.17E-08</u>
U238	<u>8.52E-07</u>
TOTAL U	<u>7.31E-06</u>

- ◆ EXHAUST VOLUME 1.76E+15 (cc)
- ◆ AVERAGE CONCENTRATION FOR ALL STACKS 4.15E-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**

<b>NUCLIDES</b>	<b>QUANTITY-CURIES</b>
U234	<u>1.23E-02</u>
U235	<u>4.69E-04</u>
U236	<u>2.32E-05</u>
U238	<u>1.68E-03</u>
TOTAL U	<u>1.45E-02</u>

- ◆ SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.
- ◆ TOTAL VOLUME OF LIQUID EFFLUENT 3.35E+08 (liters)
- ◆ ABNORMAL RELEASES  
TOTAL NUMBER OF RELEASES = 0  
TOTAL ACTIVITIES RELEASED = 0