



**Global Nuclear Fuel**

A Joint Venture of GE, Toshiba & Hatachi

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**Charles M. Vaughan**

Manager  
Facility Licensing

August 26, 2005

Dr. William Travers  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Sam Nunn Atlanta Federal Center, 23 T85  
61 Forsyth Street, SW  
Atlanta, GA 30303

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

Dear Dr. Travers:

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, 2005.

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

Sincerely,

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

Charles Vaughan, Manager  
Facility Licensing

Enclosures

cc: CMV-05-051  
Mr. Jack Strosnider, US NRC, HQ  
Ms. Beverly Hall, NCDENR  
Mr. Mark Poirier, ANI  
Mr. Nick Baker, US NRC, HQ

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

NRC License SNM 1097, Docket # 70-1113

SEMI-ANNUAL EFFLUENT REPORT

January 2005 – June 2005  
Fiscal Weeks 1-26

**I. GASEOUS EFFLUENT-PARTICULATE**

NUCLIDES	QUANTITY-CURIES
U234	<u>7.93E-06</u>
U235	<u>3.05E-07</u>
U236	<u>1.69E-08</u>
U238	<u>1.20E-06</u>
TOTAL U	9.44E-06

- ◆ EXHAUST VOLUME 1.62E+15 (cc)
- ◆ AVERAGE CONCENTRATION FOR ALL STACKS 5.83E-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>4.63E-02</u>
U235	<u>1.78E-03</u>
U236	<u>9.86E-05</u>
U238	<u>7.00E-03</u>
TOTAL U	<u>5.52E-02</u>

- ◆ SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.
- ◆ TOTAL VOLUME OF LIQUID EFFLUENT 3.44E+08 (liters)
- ◆ ABNORMAL RELEASES  
TOTAL NUMBER OF RELEASES = 0  
TOTAL ACTIVITIES RELEASED = 0