



**Global Nuclear Fuel**

A Joint Venture of GE, Toshiba, & Hitachi

Global Nuclear Fuel – Americas, LLC  
Mail Code K-84  
3901 Castle Hayne Road, Wilmington, NC 28401  
(910) 675-5950, Fax (910) 362-5950

February 22, 2008

Director, Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

Subject: Semi-Annual Effluent Monitoring Report

References: 1) NRC License SNM-1097, Docket 70-1113  
2) NRC Regulation 10CFR70.59


Dear Sir or Madam:

With respect to activities authorized by NRC License SNM-1097, the Global Nuclear Fuel-Americas, L.L.C. (GNF-A) facility in Wilmington, North Carolina hereby submits a semi-annual effluent monitoring report required by 10CFR70.59.

The effluent monitoring report for the time period of July through December 2007 is provided as an Attachment to this letter.

If you have any questions regarding this matter, please contact me at (910) 675-5950.

Sincerely,



Scott Murray, Manager  
Licensing & Liabilities COE

Attachment

cc: SPM-08-010  
Regional Administrator, USNRC, RII  
Beverly Hall, NCDENR  
Mark Poirier, ANI  
Meritt N. Baker, USNRC, NMSS  
Richard Gibson, USNRC, RII

bcc: T. Leister  
G. Dickman  
C. Priest  
H. Knight  
L. Paulson  
J. Zino  
K. Maloy  
A. Mabry  
G. Gardner  
B. Howell  
M. Leik  
P. Mathur  
C. Monetta  
T. Crawford

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

NRC License SNM 1097, Docket # 70-1113

**SEMI-ANNUAL EFFLUENT REPORT**

July 2007 – December 2007  
Fiscal Weeks 27-52

**I. GASEOUS EFFLUENT-PARTICULATE**

NUCLIDES	QUANTITY-CURIES
U234	<u>7.86E-06</u>
U235	<u>3.03E-07</u>
U236	<u>1.56E-08</u>
U238	<u>1.01E-06</u>
TOTAL U	9.19E-06

- ♦ EXHAUST VOLUME 1.71E+15 (cc)
- ♦ AVERAGE CONCENTRATION FOR ALL STACKS 5.37E-15 (μCi/cc)
- ♦ SAMPLING IS CONTINUOUS.
- ♦ LOWER LEVEL OF DETECTION: 1E-12 μCi/ml
- ♦ ABNORMAL RELEASES:  
TOTAL NUMBER OF RELEASES = 0  
TOTAL ACTIVITY RELEASED = 0

**II. LIQUID EFFLUENT**

NUCLIDES	QUANTITY-CURIES
U234	<u>2.06E-02</u>
U235	<u>7.95E-04</u>
U236	<u>4.09E-05</u>
U238	<u>2.65E-03</u>
TOTAL U	<u>2.41E-02</u>

- ♦ SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.
- ♦ TOTAL VOLUME OF LIQUID EFFLUENT 3.16E+08 (liters)
- ♦ ABNORMAL RELEASES  
TOTAL NUMBER OF RELEASES = 0  
TOTAL ACTIVITIES RELEASED = 0