



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

February 11, 2011

Global Nuclear Fuel – Americas, LLC
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(910) 819-5950, Fax (910) 362-5950

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 the semi-annual effluent monitoring report required by 10CFR70.59 for the time period of July through December 2010.

If you have any questions regarding this matter, please contact me at (910) 819-5950.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Murray', is written over a horizontal line.

Scott Murray, Manager
Licensing & Liabilities

Attachment

cc: SPM-11-008
Regional Administrator, USNRC, RII
Mary T. Adams, USNRC, NMSS
Mary L. Thomas, USNRC, RII
Lee Cox, NCDENR
Mark Poirier, ANI

bcc:

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

NRC LICENSE SNM 1097, DOCKET # 70-1113

SEMI-ANNUAL EFFLUENT REPORT

July 2010 - December 2010
Fiscal Weeks 27-53

I. GASEOUS EFFLUENT-PARTICULATE

NUCLIDES	QUANTITY (Ci)	CONCENTRATION (uCi/cc)	10CFR20 APPENDIX B, TABLE 2, COLUMN 1	% of LIMIT
			LIMIT (uCi/cc)	
U234	6.94E-06	4.01E-15	5.E-14	8.03%
U235	2.68E-07	1.55E-16	6.E-14	0.26%
U236	1.07E-08	6.20E-18	6.E-14	0.01%
U238	9.03E-07	5.22E-16	6.E-14	0.87%
TOTAL U	8.13E-06			

EXHAUST VOLUME = 1.73E+15 (cc)

SAMPLING IS CONTINUOUS.

ABNORMAL RELEASES:

TOTAL NUMBER OF RELEASES = 0
TOTAL ACTIVITY RELEASED = 0 Ci

II. LIQUID EFFLUENT

NUCLIDES	QUANTITY (Ci)	CONCENTRATION (uCi/cc)	10CFR20 APPENDIX B, TABLE 2, COLUMN 1	% of LIMIT
			LIMIT (uCi/cc)	
U234	1.10E-02	4.41E-08	3.E-07	14.70%
U235	4.26E-04	1.70E-09	3.E-07	0.57%
U236	1.71E-05	6.82E-11	3.E-07	0.02%
U238	1.44E-03	5.74E-09	3.E-07	1.91%
TOTAL U	1.29E-02			

SAMPLES ANALYZED ARE REPRESENTATIVE, CONTINUOUS COMPOSITE SAMPLES OF PROCESS EFFLUENT STREAM.

TOTAL VOLUME OF LIQUID EFFLUENT = 2.50E+08 (litres)

ABNORMAL RELEASES

TOTAL NUMBER OF RELEASES = 0
TOTAL ACTIVITIES RELEASED = 0 Ci

NOTE: Reported values are representative of the effluent concentration at the point of release and do not consider effects of dilution from point of release to the plant site boundary.