



Global Nuclear Fuel

A Joint Venture of GE, Toshiba, & Hitachi

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February 24, 2010

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 2009.

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 the typed name and title.

Scott Murray, Manager
Licensing & Liabilities

Attachment

cc: SPM-10-006
Regional Administrator, USNRC, RII
Lee Cox, NCDENR
Mark Poirier, ANI
Mary T. Adams, USNRC, NMSS
Richard Gibson, USNRC, RII

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

NRC LICENSE SNM 1097, DOCKET # 70-1113

SEMI-ANNUAL EFFLUENT REPORT

July 2009 - December 2009
Fiscal Weeks 27-52

I. GASEOUS EFFLUENT-PARTICULATE

NUCLIDES	QUANTITY (Ci)	CONCENTRATION (uCi/cc)	10CFR20 APPENDIX B, TABLE 2, COLUMN 1	% of LIMIT
			LIMIT (uCi/cc)	
U234	1.76E-05	1.09E-14	5.E-14	21.85%
U235	6.81E-07	4.22E-16	6.E-14	0.70%
U236	3.88E-08	2.40E-17	6.E-14	0.04%
U238	2.27E-06	1.41E-15	6.E-14	2.35%
TOTAL U	2.06E-05			

EXHAUST VOLUME = 1.61E+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	3.11E-02	9.70E-08	3.E-07	32.34%
U235	1.20E-03	3.74E-09	3.E-07	1.25%
U236	6.83E-05	2.13E-10	3.E-07	0.07%
U238	4.01E-03	1.25E-08	3.E-07	4.17%
TOTAL U	3.64E-02			

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

TOTAL VOLUME OF LIQUID EFFLUENT = 3.21E+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.

bcc:

S. Fuller
A. Vexler
C. Bough
G. Dickman
M. Leik
J. Zino
A. Mabry
B. Keenan
J. Smith
J. Reynolds
P. Mathur
L. Butler
S. O'Connor