



Nuclear Fuel Services, Inc.
1205 Banner Hill Road
Erwin, TN 37650
(423) 743-9141

21G-06-0064
GOV-01-55
ACF-06-0124

March 30, 2006

Dr. William D. Travers, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II, Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303

Reference: Docket No. 70-143; SNM License 124

Subject: **Biannual Effluent Monitoring Report July through December 2005**

Dear Dr. Travers:

Page three of Attachment C to the *Biannual Effluent Monitoring Report July through December 2005* (21G-06-0031) submitted to the NRC February 27, 2006, was inadvertently omitted from some copies that were distributed. Therefore, this page is included in the following attachment to ensure complete distribution of information.

If you or your staff have any questions, require additional information, or wish to discuss this, please contact me or Mr. Robert Holley, Environmental Safety Manager, at (423) 743-1777. Please reference our unique document identification number (21G-06-0064) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'BMM Moore', is written over the typed name.

B. Marie Moore
Vice President
Safety and Regulatory

SLS/rmm
Attachment

B. M. Moore to W.D. Travers (NRC)
March 30, 2006

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xc: Mr. William Gloersen, Project Inspector
U. S. Nuclear Regulatory Commission
Region II, Atlanta Federal Center
61 Forsyth Street, SW
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Atlanta, GA 30303

Director
Office of Nuclear Material Safety & Safeguards
U. S. Nuclear Regulatory Commission
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Mr. Gary Janosko, Chief
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Mr. Mark G. Poirier, Account Engineer
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95 Glastonbury Boulevard
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Mr. Daniel Rich
Senior Resident Inspector
U. S. Nuclear Regulatory Commission

Table 2. Maximum Predicted Airborne Concentrations at or Beyond the Site Boundary

Nuclide	Maximum Concentration (uCi/mL)	Concentration Location		10 CFR 20, App. B, Table 2, Col. 1 Value (uCi/mL)	Ratio of Maximum Concentration to 10 CFR 20 Value
		Sector	Dist. (m)		
^{99m} Tc	4.4E-17	NNE	400	9.E-10	4.9E-08
²²⁶ Ra	1.9E-18	NNE	600	9.E-13	2.1E-06
²²⁸ Th	1.9E-20	NNE	450	2.E-14	9.5E-07
²³⁰ Th	1.8E-20	NNE	450	2.E-14	9.0E-07
²³¹ Th	5.1E-19	NNE	350	9.E-09	5.7E-11
²³² Th	1.5E-20	NNE	450	4.E-15	3.8E-06
²³⁴ U	7.9E-18	NNE	500	5.E-14	1.6E-04
²³⁵ U	3.0E-19	NNE	550	6.E-14	5.0E-06
²³⁸ U	4.7E-20	NNE	650	6.E-14	7.8E-07
Sum of Fractions:					1.7E-04

The TEDE to the MEI for gaseous effluents released during 2005 is provided in Table 3. The results for the 1st half of 2005 were previously reported in *Biannual Effluent Monitoring Report January through June 2005* (21G-05-0153). The annual dose is well below SNM-124 license action levels and applicable regulatory limits/ALARA constraints.

Table 3. Annual Dose to the MEI for Gaseous Effluents Released During 2005

Period Covered	Direction	Distance (m)	TEDE (mrem)
2 nd Half	NNE	450	2.2E-03
1 st Half	NNE	350	4.5E-03
Annual Total			6.7E-03