



August 27, 2004  
RKB:04:045

Mr. L. A. Reyes  
U. S. Nuclear Regulatory Commission, Region II  
Sam Nunn Atlanta Federal Center, Suite 23T85  
61 Forsyth St., S.W.  
Atlanta, GA 30303-8931

Dear Mr. Reyes:

**License SNM-1227**  
**Docket 70-1257**

**Subject: Required Reporting of Effluents per 10 CFR 70.59**

As required by 10 CFR 70.59, Framatome ANP, Inc. (FANP) is reporting discharges of radioactive materials in the effluents from its nuclear fuels fabrication plant on Horn Rapids Road in Richland, Washington. Data from January 1, 2004 through June 30, 2004 are reported in the attached tables.

All data indicate continued compliance with applicable discharge limits. If there are any questions, please contact me at (509) 375-8638.

Very truly yours,

A handwritten signature in cursive script that reads 'R. K. Burklin'.

R. K. Burklin, Manager  
Radiation Protection

/mah

**Attachments**

cc: M. J. Virgilio, Director, NMSS, U.S. Nuclear Regulatory Commission  
A.W. Conklin, State of Washington Department of Health  
W. B. Gloersen, U.S. Nuclear Regulatory Commission, Region II

Gaseous Effluent January 1, 2004 – June 30, 2004					
Stack	Average Concentration (μCi/ml)	Error Estimate (%)	Average LLD* (μCi/ml)	Quantity (μCi α)	Flow (m <sup>3</sup> )
K03	5.17E-16	101	8.15E-15	0.12	2.36E+08
K06	4.19E-16	74	3.45E-15	0.04	1.00E+08
K09	2.33E-15	20	6.60E-15	0.04	1.69E+07
K21	5.96E-16	78	6.00E-15	0.08	1.36E+08
K25	2.01E-15	21	5.83E-15	0.04	1.87E+07
K31	2.32E-15	33	7.09E-15	0.29	1.21E+08
K32	3.18E-15	9	1.69E-13	0.06	1.99E+07
K37	4.65E-16	49	3.09E-15	0.04	9.14E+07
K42	-1.00E-16	144	2.65E-15	0	4.60E+07
K46	6.15E-16	48	3.01E-15	0.06	1.09E+08
K47	3.40E-15	20	8.65E-15	0.03	7.70E+06
K49	2.22E-15	15	3.83E-15	0.12	5.08E+07
K50	8.04E-14	5	4.65E-15	0.47	5.64E+06
K55	7.50E-16	24	4.13E-15	0	5.70E+06
K56	2.17E-17	366	6.93E-15	0	1.48E+06
K58	-1.88E-16	107	3.19E-15	-0.02	1.28E+08
K60	7.06E-17	580	3.85E-15	0.01	7.59E+07
K62	-7.40E-16	100	5.19E-15	-0.26	3.59E+08
K65	1.44E-15	45	8.29E-15	0.02	1.44E+07
K67	1.02E-15	40	5.74E-15	0.01	6.83E+06
K69	1.25E-15	29	4.06E-15	0.04	3.30E+07
<b>TOTAL</b>				1.18	2.36E+08
Total with negative results dropped				1.46	
Radionuclide: Mixed Fission and Activation Products				(μCi β)	
K52	6.75E-15	49	5.78E-14	0.34	5.14E+07
Total				0.34	5.14E+07

\* Typical lower limit of detection for 7-day sampling period.

<b>Solid Effluent</b>				
<b>January 1, 2004 – June 30, 2004</b>				
<b>Number of Shipments</b>	<b>Mode of Transportation</b>	<b>Destination</b>	<b>Volume (m<sup>3</sup>)</b>	<b>Quantity* (Ci)</b>
5	Truck	U.S. Ecology Richland, WA	68	0.084
10	Truck	Envirocare Clive, UT	141	0.57
Total			209	0.654

\* Based on 3.4 wt% enriched uranium.

Liquid Effluent*					
January 1, 2004 – June 30, 2004					
Constituent	Concentration ( $\mu\text{Ci/ml}$ )	Error Estimate (%)	LLD	Quantity (Ci)	Liquid Volume ( $\text{m}^3$ )
U	<2.43E-07	60	**	<0.018	7.69E+4
Tc-99	<9.16E-07	40	**	<0.070	
Total (U+Tc-99)				<0.088	

\* Combined liquid effluent released to City of Richland sewer system.

\*\* These constituents are analyzed chemically via Inductively Coupled Plasma/Mass Spectroscopy (ICP/MS) as opposed to radiation counting. Laboratory detection limits for uranium and Tc-99 are 1 part per billion and 5 parts per trillion, respectively.

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September 8, 2004  
JBP:04:018

U.S. Nuclear Regulatory Commission, Region II  
Division of Nuclear Materials Safety  
Fuel Facilities Branch  
Attn: David A. Ayres, Chief  
Sam Nunn Atlanta Federal Center, 23 T85  
61 Forsyth Street, SW  
Atlanta, GA 30303-8931

Dear Mr. Ayres:

**Subject: Violation of Liquid Waste Effluent Permit Limit - August 2004**

Per Framatome's Special Nuclear Material License SNM-1227 Section 5.1.2.3, informational reporting to the NRC is required when a wastewater effluent limit is exceeded under Framatome's sewerage permit. On August 14, the daily maximum nitrate limit of 1300 lbs was exceeded. The total pounds nitrate discharged was 1364 pounds. The permit exceedance was the result of a sewerage flow rate that left inadequate margin to compensate for variations in nitrate concentrations within the legacy lagoon solutions being processed. The monthly average daily discharge for July remained well below its applicable limit. Appropriate state and local (city) regulators have been notified. Framatome has reduced its nitrate discharge target level to provide additional margin while processing the last of the legacy lagoon inventory.

If you have additional questions, please feel free to call me at (509) 375-8452.

Very truly yours,

A handwritten signature in cursive script that reads 'Jim Perryman'.

J. B. Perryman, Environmental Engineer  
Licensing & Compliance

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