



August 24, 2005
RKB:05:036

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

Dear Mr. Strosnider:

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, 2005 through June 30, 2005 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 black ink that reads 'R K Burklin'.

R. K. Burklin
Radiation Protection

/mah

Attachments

cc: W. D. Travers, U.S. Nuclear Regulatory Commission, Region II
A.W. Conklin, State of Washington Department of Health
W. B. Gloersen, U.S. Nuclear Regulatory Commission, Region II

Gaseous Effluent January 1, 2005 – June 30, 2005					
Stack	Average Concentration ($\mu\text{Ci/ml}$)	Error Estimate (%)	Average LLD ($\mu\text{Ci/ml}$)*	Quantity ($\mu\text{Ci } \alpha$)	Flow (m^3)
Low Enriched Uranium					
K03	1.74E-15	39	6.81E-15	0.24	1.35E+08
K06	1.11E-15	37	4.17E-15	0.06	5.84E+07
K09	1.17E-15	46	5.74E-15	0.01	8.63E+06
K21	8.15E-16	80	6.40E-15	0.05	5.49E+07
K25	6.74E-16	65	4.83E-15	0.01	9.72E+06
K31	7.22E-16	113	1.00E-14	0.03	5.48E+07
K32	1.85E-14	6	5.86E-13	0.21	1.10E+07
K37	2.00E-16	104	2.35E-15	0.01	4.88E+07
K42	3.04E-16	80	2.63E-15	0.01	2.43E+07
K46	6.33E-16	50	3.15E-15	0.03	4.73E+07
K47	3.13E-15	34	9.16E-15	0.01	3.78E+06
K49	4.79E-15	12	4.54E-15	0.13	2.65E+07
K50	3.39E-14	7	4.50E-15	0.08	2.09E+06
K55				0	0.00E+00
K56	1.23E-15	83	6.25E-15	0	1.75E+06
K58	3.43E-16	88	3.17E-15	0.03	6.92E+07
K60	2.70E-16	110	3.97E-15	0.01	4.53E+07
K62	6.17E-19	407	4.85E-15	0.01	1.90E+08
K65	6.49E-16	83	7.52E-15	0	7.69E+06
K67	1.00E-15	47	5.53E-15	0	3.66E+06
K69	7.46E-16	55	4.29E-15	0.01	1.77E+07
K72	6.61E-16	37	2.36E-15	0.07	1.05E+08
TOTAL				1.02	9.26E+08

Stack	Average Concentration ($\mu\text{Ci/ml}$)	Error Estimate (%)	Average LLD ($\mu\text{Ci/ml}$)*	Quantity ($\mu\text{Ci } \beta$)	Flow (m^3)
Radionuclide: Mixed Fission and Activation Products					
K52	-1.29E-14	38	5.13E-14	-0.36	2.73E+07
Total				-0.36	2.73E+07
Total with negative results dropped				0	2.73E+07

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

Liquid Effluent [*] January 1, 2005 – June 30, 2005					
Constituent	Concentration ($\mu\text{Ci/ml}$)	Error Estimate (%)	LLD ($\mu\text{Ci/ml}$)	Quantity (Ci)	Liquid Volume (m^3)
U	<1.23E-07	10	..	<0.001	4.80E+04
Tc-99	1.46E-06	60	..	<0.07	
Total Ci				<0.071	

^{*} 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.