



**FRAMATOME ANP**

An AREVA and Siemens company

**FRAMATOME ANP, Inc.**

February 10, 2003  
RKB:03:010 (REVISED)

U.S. Nuclear Regulatory Commission  
Attn: Mr. E.W. Merschoff, Regional Administrator  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Dear Mr. Merschoff:

**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 July 1, 2002 through December 31, 2002 are reported in the attached tables.

Also included is the revised Gaseous Effluent data for the period January 1, 2002 to June 30, 2002. The error in the original report was caused by a software glitch.

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

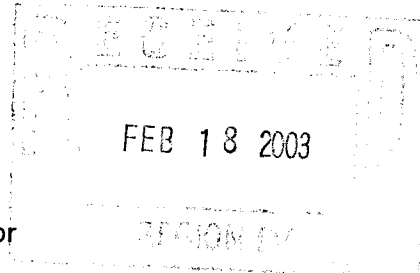
Very truly yours,

R. K. Burklin, Manager  
Radiation Protection

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Attachments

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



**FEB 18 2003**

Gaseous Effluent July 1, 2002 - December 31, 2002					
Stack	Average Concentration ( $\mu\text{Ci/ml}$ )	Error Estimate (%)	Average LLD* ( $\mu\text{Ci/ml}$ )	Quantity ( $\mu\text{Ci } \alpha$ )**	Flow ( $\text{m}^3$ )
K03	7.14E-16	58	5.41E-15	.19	2.78E+08
K06	-3.78E-16	57	3.29E-15	-.04	1.04E+08
K09	1.81E-16	154	4.22E-15	.00	1.75E+07
K21	1.40E-15	28	4.87E-15	.22	1.60E+08
K25	6.78E-16	52	4.46E-15	.01	1.98E+07
K31	1.37E-15	46	8.06E-15	.31	2.35E+08
K32	2.25E-14	5	1.51E-13	.48	2.06E+07
K37	6.11E-16	30	2.53E-15	.06	1.05E+08
K42	6.74E-16	32	2.60E-15	.03	4.87E+07
K46	4.93E-17	791	3.04E-15	.01	1.32E+08
K47	3.43E-15	20	7.54E-15	.03	8.67E+06
K49	2.14E-15	16	3.57E-15	.11	5.38E+07
K50	1.06E-13	5	4.75E-15	.71	6.70E+06
K55	1.27E-15	22	3.34E-15	.01	7.10E+06
K56	3.85E-17	192	5.03E-15	.00	3.68E+06
K58	3.98E-17	520	2.46E-15	.00	1.39E+08
K60	6.76E-16	40	3.66E-15	.07	1.07E+08
K62	1.15E-15	32	4.35E-15	.46	3.91E+08
K65	-6.58E-16	58	5.66E-15	-.01	1.54E+07
K67	2.34E-16	114	4.78E-15	.00	7.27E+06
K69	2.39E-16	111	4.37E-15	.01	3.53E+07
Total				2.67	1.89E+09
Radionuclide: Mixed Fission and Activation Products ( $\mu\text{Ci } \beta$ )					
K52	-7.88E-15	100	5.30E-14	-.41	5.19E+07
Total				-.41	5.19E+07

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

\*\* Based on low enriched uranium.

Liquid Effluent*					
July 1, 2002 - December 31, 2002					
Constituent	Concentration ( $\mu\text{Ci/ml}$ )	Error Estimate (%)	LLD	Quantity (Ci)	Liquid Volume ( $\text{m}^3$ )
U	<2.16E-07	40.6	**	<0.014	6.46E+4
Tc-99	4.52E-06	27	**	0.292	
Total (U + Tc-99)				<0.306	

\* 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.

<b>Solid Effluent</b>				
<b>July 1, 2002 - December 31, 2002</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>
8	Truck	U.S. Ecology Richland, WA	112.1	0.129
65	Truck	Envirocare Clive, UT	779	4.823
1	Truck	Allied Technology Group Richland, WA	2.3	0.001
<b>Total</b>			<b>893.4</b>	<b>4.955</b>

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\* Based on 3.4 wt% enriched uranium.

Gaseous Effluent January 1, 2002 - June 30, 2002					
Stack	Average Concentration ( $\mu\text{Ci/ml}$ )	Error Estimate (%)	Average LLD* ( $\mu\text{Ci/ml}$ )	Quantity ( $\mu\text{Ci } \alpha$ )**	Flow ( $\text{m}^3$ )
K03	1.66E-16	215	5.21E-15	.04	2.82E+08
K06	-1.58E-16	150	3.33E-15	-.01	1.01E+08
K09	1.40E-15	21	3.25E-15	.02	1.68E+07
K21	-2.86E-16	163	4.78E-15	-.05	1.35E+08
K25	-9.84E-17	228	4.22E-15	.00	1.97E+07
K31	-4.04E-16	123	6.90E-15	-.09	2.28E+08
K32	4.50E-15	6	1.17E-13	.08	1.75E+07
K37	5.34E-17	216	2.42E-15	.00	0.99E+08
K42	8.15E-17	161	2.38E-15	.00	4.63E+07
K46	3.11E-16	67	3.08E-15	.04	1.24E+08
K47	2.30E-15	25	7.44E-15	.02	7.97E+06
K49	0.99E-15	26	3.27E-15	.05	5.22E+07
K50	6.90E-14	5	3.63E-15	.46	6.50E+06
K55	1.64E-15	17	3.25E-15	.01	7.55E+06
K56	1.18E-15	24	3.71E-15	.00	2.96E+06
K58	1.19E-15	17	2.45E-15	.18	1.30E+08
K60	-7.62E-17	196	3.29E-15	-.01	9.84E+07
K62	1.01E-15	28	3.12E-15	.37	3.55E+08
K65	1.42E-15	26	4.35E-15	.02	1.46E+07
K67	-1.16E-16	242	4.74E-15	.00	6.94E+06
K69	1.94E-16	227	4.12E-15	.01	1.78E+09
Total				1.14	
Radionuclide: Mixed Fission and Activation Products ( $\mu\text{Ci } \beta$ )					
K52	-6.54E-14	100	7.56E-14	-3.39	5.13E+07
Total				-3.39	5.13E+07

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

\*\* Based on low enriched uranium.