



**FRAMATOME ANP**

An AREVA and Siemens company

**FRAMATOME ANP, Inc.**

July 22, 2003  
RKB:03:045

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 January 1, 2003 through June 30, 2003 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,

R. K. Burklin, Manager  
Radiation Protection

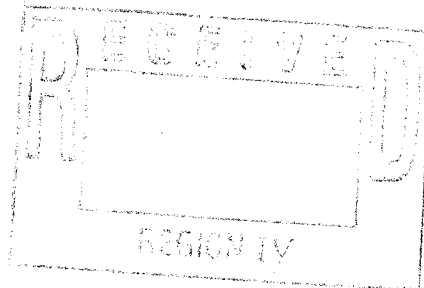
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Attachments

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

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Gaseous Effluent January 1, 2003 – June 30, 2003					
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	1.87E-15	23	4.83E-15	0.53	2.79E+08
K06	6.00E-16	47	2.75E-15	0.06	9.84E+07
K09	7.13E-16	55	4.90E-15	0.01	1.57E+07
K21	1.02E-15	43	5.72E-15	0.15	1.43E+08
K25	5.14E-16	82	4.49E-15	0.01	1.83E+07
K31	1.37E-14	8	8.31E-15	2.66	1.98E+08
K32	1.70E-14	5	1.69E-13	0.33	1.87E+07
K37	2.52E-15	10	2.51E-15	0.24	9.73E+07
K42	3.89E-16	67	2.88E-15	0.02	4.50E+07
K46	6.87E-16	35	3.03E-15	0.09	1.27E+08
K47	1.27E-15	51	8.63E-15	0.01	7.71E+06
K49	1.74E-15	20	3.89E-15	0.09	5.09E+07
K50	7.82E-14	5	4.84E-15	0.38	4.46E+06
K55	1.81E-15	19	3.70E-15	0.01	6.20E+06
K56	3.15E-15	23	6.06E-15	0.01	2.48E+06
K58	5.10E-17	1603	2.50E-15	0.01	1.27E+08
K60	2.29E-16	76	4.08E-15	0.02	9.37E+07
K62	2.18E-16	150	4.32E-15	0.07	3.60E+08
K65	7.07E-16	73	6.58E-15	0.01	1.42E+07
K67	2.72E-16	93	5.38E-15	0	6.77E+06
K69	3.14E-16	96	4.72E-15	0.01	3.32E+07
Total				4.71	1.75E+09
Radionuclide: Mixed Fission and Activation Products				( $\mu\text{Ci } \beta$ )	
K52	2.17E-15	153	4.02E-14	0.12	5.03E+07
Total				0.12	5.03E+07

\* Typical lower limit of detection for 7-day sampling period.  
 \*\* Based on low enriched uranium.

<b>Solid Effluent</b>				
<b>January 1, 2003 – June 30, 2003</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>
1	Truck	U.S. Ecology Richland, WA	10.9	0.0124
8	Truck	Envirocare Clive, UT	133.8	0.270
1	Truck	Mississauga Metals Brampton, Ontario	12.1	0.004
<b>Total</b>			<b>156.8</b>	<b>0.286</b>

\* Based on 3.4 wt% enriched uranium.

Liquid Effluent January 1, 2003 – June 30, 2003					
Constituent	Concentration (μCi/ml)	Error Estimate (%)	LLD	Quantity (Ci)	Liquid Volume (m <sup>3</sup> )
U	<1.62E-07	45	**	<0.010	7.14E+4
Tc-99	<2.27E-06	27	**	<0.162	
Total (U+Tc-99)				<0.172	

\* 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.