



SNM 1168, docket 70-1201

August 11, 2005

**ATTN: Document Control Desk
Director, Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001**

Subject: Semi-annual effluent report: January 01, 2005 through June 30, 2005

In accord with the provisions of 10 CFR 70.59, the Mount Athos Road Facility of Framatome ANP (Lynchburg, Virginia) submits the enclosed gaseous effluent report for the first semi-annual period of 2005.

You may contact me at (434) 832-5276 should you have any questions or require additional information regarding the enclosed report.

Sincerely,

**Charles F. Holman
Manager, Environmental, Health,
Safety and Licensing**

**cc: USNRC, Region II
Sam Nunn Atlanta Federal Center; Suite 23T85
61 Forsyth Street, SW
Atlanta, Georgia 30303-8931**

**Leslie P. Foldesi
Commonwealth of Virginia
Department of Health
P.O. Box 2448
Richmond, VA 23218**

EHS&L 05-301

Gaseous Effluent Report

1st semiannual, year 2005

1. PLR

Reporting Period: 01/01/2005 to 06/30/2005
Sample Collection Point: Main Plant Stack
Volume Released: 2.629E+09 cubic feet
Stack Flow Rate (typical): 10019 cubic feet per minute
Activity Released Gross Alpha: 0.262 uCi
Gross Beta: 0.000 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
U-234	2.03E-01	2.73E-15	5.46
U-235	1.13E-02	1.52E-16	0.25
U-236	6.43E-04	8.63E-18	0.01
U-238	4.72E-02	6.34E-16	1.06

2. SERF-2 RCA

(removed radioactive material from building on 11/23/04; effluent discontinued)

3. SERF-3 RCA

Reporting Period: 01/01/2005 to 06/30/2005
Sample Collection Point: SERF-3 RCA Stack
Volume Released: 1.16E+09 cubic feet
Stack Flow Rate (typical): 4392 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 2.935 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	2.935	8.94E-14	0.18

4. SERF-4 RCA

Reporting Period: 01/01/2005 to 06/30/2005
Sample Collection Point: SERF-4 RCA Stack
Volume Released: 2.52E+09 cubic feet
Stack Flow Rate (typical): 9568 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 6.618 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	6.618	9.28E-14	0.19

5. Chem Lab

Reporting Period: 01/01/2005 to 06/30/2005
 Sample Collection Point: Chem Lab - 3 sampling pts.
 Volume Released: 4.90E+08 cubic feet
 Stack Flow Rate (typical): 644 cubic feet per minute
 Activity Released Gross Alpha: 0.000 uCi
 Gross Beta: 4.630 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	4.630	3.34E-13	0.67

5. SERF 5

Reporting Period: 01/01/2005 to 06/30/2005
 Sample Collection Point: SERF 5 - 2 sampling points
 Volume Released: 5.66E+09 cubic feet
 Stack Flow Rate (typical): 15110 cubic feet per minute
 Activity Released Gross Alpha: 0.000 uCi
 Gross Beta: 14.676 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	14.676	9.15E-14	0.18

6. Maximum Concentration Released in One Sampling Period:

Reporting Period: 1st semiannual, year 2005

Isotope	DAC (uCi/ml)	maximum Concentration (uCi/ml)	% DAC
U-234	5.0E-14	1.242E-14	24.84
U-235	6.0E-14	1.242E-14	20.70
U-236	6.0E-14	1.242E-14	20.70
U-238	6.0E-14	1.242E-14	20.70
Co-60	5.0E-11	2.599E-12	5.20