

SNM 1168, docket 70-1201

February 24, 2004

US Nuclear Regulatory Commission Region II Sam Nunn Atlanta Federal Center 61 Forsyth Street SW, Suite 23T85 Atlanta, GA 30303

Subject:

Semi-annual effluent report: July 01, 2003 through December 31, 2003

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 second semi-annual period of 2003.

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, Environment, Health

Safety and Licensing

cc: Mr. 1

Mr. Bob Pearson

Director, Office of Nuclear Material Safety and Safeguards

**United States Nuclear Regulatory Commission** 

Washington, D.C. 20555

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

EHS&L 03-301

# **Gaseous Effluent Report**

2nd semiannual, year 2003

## 1. PLR

Reporting Period:

07/01/2003 to 12/30/2003

Sample Collection Point:

Main Plant Stack

3.040E+09 cubic feet

Volume Released:

cubic feet per minute

Stack Flow Rate (typical): **Activity Released** 

11480

Gross Alpha:

1.312 uCi

Gross Beta:

0.000 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
U-234	1.02E+00	1.18E-14	23.61
U-235	5.66E-02	6.58E-16	23.61
U-236	3.21E-03	3.73E-17	0.06
U-238	2.36E-01	2.74E-15	4.57

## 2. SERF-2 RCA

Reporting Period:

07/01/2003 to 12/31/2003

Sample Collection Point:

SERF-2 RCA Stack

Volume Released:

1.23E+08 cubic feet

Stack Flow Rate (typical):

459 cubic feet per minute

Activity Released

0.000 uCi

Gross Alpha: Gross Beta:

1.220 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	1.220	3.49E-13	0.70

#### 3. SERF-3 RCA

Reporting Period:

07/01/2003 to 12/31/2003

Sample Collection Point:

SERF-3 RCA Stack

Volume Released:

1.31E+09

Stack Flow Rate (typical):

4938

cubic feet cubic feet per minute

**Activity Released** 

Gross Alpha:

0.000 uÇi

Gross Beta:	9.964	uCi

Isotope	Activity	Concentration	% DAC
	(uCi)	(uCi/mI)	

Co-60

9.964

2.69E-13

0.54

### 4. SERF-4 RCA

Reporting Period:

Sample Collection Point:

Volume Released:

Stack Flow Rate (typical):

Activity Released

Gross Alpha:

Gross Beta:

07/01/2003 to 12/31/2003

SERF-4 RCA Stack

2.68E+09 cubic feet

9986 cubic feet per minute

0.000 uCi

29.170 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	29.170	3.84E-13	0.77

### 5.Chem Lab

Reporting Period:

Sample Collection Point:

Volume Released:

Stack Flow Rate (typical):

Activity Released

Gross Alpha:

Gross Beta:

07/01/2003 to 12/31/2003

Chem Lab - 3 pts.

4.01E+08

cubic feet

500 cubic feet per minute

0.000 uCi 8.503 uÇi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	8.503	7.50E-13	1.50

# 6.Maximum Concentration Released in One Sampling Period:

Reporting Period:

07/01/2003 to 12/31/2003

Isotope	DAC (uCi/ml)	maximum Concentration (uCi/ml)	% DAC
U-234 U-235 U-236 U-238 Co-60	5.0E-14 6.0E-14 6.0E-14 6.0E-14 5.0E-11	3.67E-14 2.04E-15 1.16E-16 8.51E-15	73.30 3.41 0.19 14.18