

August 14, 2007



SNM 1168, docket 70-1201

**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, 2007 through June 30, 2007

In accord with the provisions of 10 CFR 70.59, the Mount Athos Road Facility of AREVA NP (Lynchburg, Virginia) submits the enclosed gaseous effluent report for the first semi-annual period of 2007.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Charles F. Holman', with a long horizontal flourish extending to the right.

**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

**AREVA NP INC.
An AREVA and Siemens company**

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Gaseous Effluent Report

1st semiannual, year 2007

1. PLR

Reporting Period: 01/01/2007 to 06/30/2007
Sample Collection Point: Main Plant Stack - 1 sampling pt.
Volume Released: 2.862E+09 cubic feet
Stack Flow Rate (typical): 10933 cubic feet per minute
Activity Released Gross Alpha: 0.362 uCi
Gross Beta: 0.000 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
U-234	2.80E-01	3.46E-15	6.91
U-235	1.56E-02	1.92E-16	0.32
U-236	8.85E-04	1.09E-17	0.02
U-238	6.51E-02	8.02E-16	1.34

3. SERF-3 RCA

Reporting Period: 01/01/2007 to 06/30/2007
Sample Collection Point: SERF-3 RCA Stack - 1 sampling pt.
Volume Released: 1.085E+09 cubic feet
Stack Flow Rate (typical): 4187 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 2.405 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	2.405	7.82E-14	0.16

Gaseous Effluent Report

1st semiannual, year 2007

4. SERF-4 RCA

Reporting Period: 01/01/2007 to 06/30/2007
Sample Collection Point: SERF-4 RCA Stack - 1 sampling pt.
Volume Released: 3.663E+09 cubic feet
Stack Flow Rate (typical): 14717 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 10.850 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	10.850	1.05E-13	0.21

5. Chem Lab

Reporting Period: 01/01/2007 to 06/30/2007
Sample Collection Point: Chem Lab - 3 sampling pts.
Volume Released: 6.369E+08 cubic feet
Stack Flow Rate (typical): 893 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 2.677 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	2.677	1.48E-13	0.30

Gaseous Effluent Report

1st semiannual, year 2007

6. SERF 5

Reporting Period:	01/01/2007 to 06/30/2007
Sample Collection Point:	SERF 5 - 3 sampling points
Volume Released:	5.724E+09 cubic feet
Stack Flow Rate (typical):	15218 cubic feet per minute
Activity Released	Gross Alpha: 0.000 uCi
	Gross Beta: 41.92 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	41.923	2.59E-13	0.52

6. Maximum Concentration Released in One Sampling Period:

Reporting Period: 1st semiannual, year 2007

Isotope	DAC (uCi/ml)	maximum Concentration (uCi/ml)	% DAC
U-234	5.0E-14	1.675E-14	33.50
U-235	6.0E-14	1.675E-14	27.92
U-236	6.0E-14	1.675E-14	27.92
U-238	6.0E-14	1.675E-14	27.92
Co-60	5.0E-11	4.428E-11	88.56