

February 15, 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: July 01, 2006 through December 31, 2006

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 second semi-annual period of 2006.

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 stylized flourish at the end.

**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

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AREVA NP INC.

An AREVA and Siemens company

Gaseous Effluent Report

2nd semiannual, year 2006

1. PLR

Reporting Period: 07/01/2006 to 12/31/2006
Sample Collection Point: Main Plant Stack - 1 sampling pt.
Volume Released: 2.739E+09 cubic feet
Stack Flow Rate (typical): 10840 cubic feet per minute
Activity Released Gross Alpha: 0.380 uCi
Gross Beta: 0.000 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
U-234	2.94E-01	3.79E-15	7.58
U-235	1.64E-02	2.11E-16	0.35
U-236	9.30E-04	1.20E-17	0.02
U-238	6.83E-02	8.80E-16	1.47

3. SERF-3 RCA

Reporting Period: 07/01/2006 to 12/31/2006
Sample Collection Point: SERF-3 RCA Stack - 1 sampling pt.
Volume Released: 1.01E+09 cubic feet
Stack Flow Rate (typical): 3917 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 1.505 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	1.505	5.24E-14	0.10

Gaseous Effluent Report

2nd semiannual, year 2006

4. SERF-4 RCA

Reporting Period: 07/01/2006 to 12/31/2006
Sample Collection Point: SERF-4 RCA Stack - 1 sampling pt.
Volume Released: 3.05E+09 cubic feet
Stack Flow Rate (typical): 11457 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 8.691 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	8.691	1.01E-13	0.20

5. Chem Lab

Reporting Period: 07/01/2006 to 12/31/2006
Sample Collection Point: Chem Lab - 3 sampling pts.
Volume Released: 3.96E+08 cubic feet
Stack Flow Rate (typical): 893 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
Gross Beta: 1.440 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	1.440	1.28E-13	0.26

Gaseous Effluent Report

2nd semiannual, year 2006

6. SERF 5

Reporting Period: 07/01/2006 to 12/31/2006
Sample Collection Point: SERF 5 - 3 sampling points
Volume Released: 5.37E+09 cubic feet
Stack Flow Rate (typical): 14366 cubic feet per minute
Activity Released Gross Alpha: 0.000 uCi
 Gross Beta: 41.86 uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	41.858	2.75E-13	0.55

6. Maximum Concentration Released in One Sampling Period:

Reporting Period: 2nd semiannual, year 2006

Isotope	DAC (uCi/ml)	maximum Concentration (uCi/ml)	% DAC
U-234	5.0E-14	1.554E-14	31.08
U-235	6.0E-14	1.554E-14	25.90
U-236	6.0E-14	1.554E-14	25.90
U-238	6.0E-14	1.554E-14	25.90
Co-60	5.0E-11	4.323E-11	86.46