February 19, 2008



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, 2007 through December 31, 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 second semiannual 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,

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

Geoffrey A. Wertz Manager, Environmental, Health Safety and Licensing EHHCTIVE 2/25/2008

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 Slemens company

Gaseous Effluent Report 2nd semiannual, year 2007

Reporting Period:		07/01/2007 to 7	I2/31/2007
Sample Collection Point:		Main Plant Stac	ck - 1 sampling pt.
Volume Released:		2.911E+09	cubic feet
Stack Flow Rate (typical):		11050	cubic feet per minute
Activity Released	Gross Alpha:	0.288	uCi
	Gross Beta:	0.000	uCi
Isotope	Activity	Concentration (uCi/ml)	% DAC

	(uCI)		
U-232	2.14E-08	2.60E-22	0.00002598
U-234	2.23E-01	2.71E-15	5.416998829
U-235	1.24E-02	1.51E-16	0.251483301
U-236	7.06E-04	8.56E-18	0.014270262
U-238	5.19E-02	6.29E-16	1.048588331

3. SERF-3 RCA

Reporting Period: Sample Collection Point:		07/01/2007 to 12/31/2007 SERF-3 RCA Stack - 1 sampling pt.		
Volume Released:	Unit.	1.348E+09		
Stack Flow Rate (typ	bical):	5089	cubic feet per minute	
Activity Released	Gross Alpha:	0.000	uCi	
	Gross Beta:	3.531	uCi	

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	3.531	9.25E-14	0.19

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4. SERF-4 RCA

Reporting Period:		07/01/2007 to 1	12/31/2007
Sample Collection Point:		SERF-4 RCA Stack - 1 sampling pt.	
Volume Released:		4.100E+09	cubic feet
Stack Flow Rate (typical):		15437	cubic feet per minute
Activity Released	Gross Alpha:	0.000	uCi
	Gross Beta:	10.900	uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	10.900	9.39E-14	0.19

5.Chem Lab

Reporting Period:		07/01/2007 to 12/31/2007	
Sample Collection P	oint:	Chem Lab - 3 s	sampling pts.
Volume Released:		6.856E+08	cubic feet
Stack Flow Rate (typ	pical):	898	cubic feet per minute
Activity Released	Gross Alpha:	. 0.000	uCi
	Gross Beta:	2.670	uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	2.670	1.38E-13	0.28

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6. SERF 5

Reporting Period:		07/01/2007 to 12/31/2007	
Sample Collection Point:		SERF 5 - 3 sampling points	
Volume Released:		5.728E+09	cubic feet
Stack Flow Rate (typical):		14586	cubic feet per minute
Activity Released	Gross Alpha:	0.000	uCi
	Gross Beta:	36.96	uCi
Stack Flow Rate (typi	Gross Alpha:	14586 0.000	cubic feet per minute uCi

Isotope	Activity (uCi)	Concentration (uCi/ml)	% DAC
Co-60	36.960	2.28E-13	0.46

6.Maximum Concentration Released in One Sampling Period:

Reporting Period:	2nc	d semiannual, year 2007	
Isotope	DAC (uCi/ml)	maximum Concentration (uCi/ml)	% DAC
U-232 U-234 U-235 U-236 U-238 Co-60	1.0E-14 5.0E-14 6.0E-14 6.0E-14 6.0E-14 5.0E-11	6.342E-15 6.342E-15 6.342E-15 6.342E-15 6.342E-15 8.535E-12	63.42 12.68 10.57 10.57 10.57 10.57 17.07

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