

July 21, 2011



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 1, 2011 through June 30, 2011.

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 Uranium Operations; first semi-annual period of 2011.

You may contact me at (434) 832-5205 should you have any questions or require additional information regarding the enclosed report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert W. Sharkey'.

Robert W. Sharkey  
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

EHS&L file: 301

NI 115501

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

## AREVA's Mt. Athos Road Facility

### *Pellet Loading Room*

Reporting Period: 01/04/2011 to 07/05/2011

Sample Collection Point: Main Plant Stack - 1 sampling pt.

Volume Released: 2.9E+09 cubic feet

Stack Flow Rate (typical): 11,135 cubic feet per minute

Activity Released: Gross Alpha: 0.62  $\mu\text{Ci}$

Isotope	Activity Released ( $\mu\text{Ci}$ )	Average Concentration ( $\mu\text{Ci/ml}$ )	Percent of 10 CFR Part 20, Appendix B, Table 2
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U-234	3.11E-04	3.10E-15	11.42
U-235	1.96E-02	2.71E-16	0.53
U-236	4.48E-03	3.23E-17	0.03
U-238	5.98E-01	3.72E-15	2.21

Lower Limit of Detection: 5.43E-16  $\mu\text{Ci/ml}$

### **Maximum Concentration Released in One Sampling Period:**

Isotope	10 CFR Part 20 Appendix B Table 2:	Maximum Concentration Released ( $\mu\text{Ci/ml}$ )	Percent of 10 CFR Part 20, Appendix B, Table 2
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U-234	5E-14	1.17E-14	23.46
U-235	6E-14	6.53E-16	1.09
U-236	6E-14	5.70E-17	0.09
U-238	6E-14	7.61E-15	12.68