

January 18, 2012



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 1, 2011 through December 31, 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; second semi-annual period of 2011.

You may contact me at (434) 832-5225 should you have any questions or require additional information regarding the enclosed report.

Sincerely,

A handwritten signature in cursive script that reads 'Michelle T. Moore'.

Michelle T. Moore
Manager, Environmental, Health,
Safety and Licensing

cc: USNRC, Region II
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EHS&L file: 301

AREVA NP INC.

An AREVA and Siemens company

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NIM5501

AREVA's Mt. Athos Road Facility

* *Pellet Loading Room*

Reporting Period: 07/05/2011 to 12/31/2011

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

Volume Released: 1.16E+09 cubic feet

Stack Flow Rate (typical): 19,500 cubic feet per minute

Activity Released: Gross Alpha: 0.23 μCi

Isotope	Activity Released (μCi)	Average Concentration ($\mu\text{Ci/ml}$)	Percent of 10 CFR Part 20, Appendix B, Table 2
U-234	1.16E-04	1.45E-18	11.42
U-235	7.32E-03	9.17E-17	0.53
U-236	1.67E-03	2.10E-17	0.03
U-238	2.23E-01	2.80E-15	2.21

Lower Limit of Detection: 4.93E-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
U-234	5E-14	1.77E-17	0.04
U-235	6E-14	1.12E-15	1.86
U-236	6E-14	2.55E-16	0.43
U-238	6E-14	3.40E-14	56.70

* Pellet Loading Room Effluent discontinued effective 08/29/2011