

February 25, 2010



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, 2009 through December 31, 2009
Uranium Operations

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 2009.

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

Sincerely,

 For S.E. Miller
Tommy W. Bland

Samuel E. Miller
Manager, Environmental, Health,
Safety and Licensing

cc: USNRC, Region II
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EHS&L 05-301

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Gaseous Effluent Report
AREVA's Mt. Athos Road Facility
2nd semiannual, year 2009

1. Pellet Loading Room

Reporting Period: 07/01/2009 to 12/28/2009

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

Volume Released: 2.575E+09 cubic feet

Stack Flow Rate (typical): 10030 cubic feet per minute

Activity Released: Gross Alpha: 0.250 uCi
 Gross Beta: 0.000 uCi

Isotope	Activity Released (uCi)	Concentration Released (uCi/ml)	Percent of 10 CFR Part 20, Appendix B, Table 2
U-232	3.91E-03	5.36E-17	0.536
U-234	1.91E-01	2.61E-15	5.230
U-235	1.06E-02	1.46E-16	0.243
U-236	6.03E-04	8.27E-18	0.014
U-238	4.43E-02	6.07E-16	1.012

Lower Limit of Detection: 5.06E-16 µCi/ml

2. Maximum Concentration Released in One Sampling Period:

Isotope	10 CFR Part 20 Appendix B Table 2:	Maximum Concentration Released (uCi/ml)	Percent of 10 CFR Part 20, Appendix B, Table 2
U-232	1.0E-14	2.339E-15	23.39
U-234	5.0E-14	6.995E-15	13.99
U-235	6.0E-14	6.995E-15	11.66
U-236	6.0E-14	6.995E-15	11.66
U-238	6.0E-14	6.995E-15	11.66