

April 28, 2014

Mr. Richard Bush
U.S. Department of Energy
Office of Legacy Management
2597 Legacy Way
Grand Junction, CO 81503

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION STAFF REVIEW OF
U.S. DEPARTMENT OF ENERGY REPORT ENTITLED "MONITORED NATURAL
AND ENHANCED ATTENUATION OF THE ALLUVIAL AQUIFER AND SUBPILE
SOILS AT THE MONUMENT VALLEY, ARIZONA SITE: FINAL PILOT STUDY
REPORT, APRIL 2013" (DOCKET NUMBER WM-00070)

Dear Mr. Bush:

On June 6, 2013, the U.S. Department of Energy (DOE) provided the U.S. Nuclear Regulatory Commission (NRC) staff with the final report entitled "Monitored Natural and Enhanced Attenuation of the Alluvial Aquifer and Subpile Soils at the Monument Valley, Arizona Site: Final Pilot Study Report, April 2013" (Agencywide Document Access and Management System (ADAMS) Accession Number ML13164A278). This report provides the results of DOE's pilot study to determine the viability and practicality of natural and enhanced attenuation for remediating ammonium, nitrate and sulfate in the subpile soils and alluvial aquifer at the Monument Valley Uranium Mill Tailings Radiation Control Act site. The results of this study will be used by the DOE to help develop compliance strategies for a Ground Water Compliance Action Plan for the Monument Valley site.

The NRC staff worked with the Center for Nuclear Waste Regulatory Analysis (CNWRA) to evaluate the findings in the DOE pilot study report. The results of the CNWRA's and NRC staff's evaluation are summarized in the enclosed report. If you have any questions concerning the evaluation, please contact me at 301-415-6749 or email at Dominick.Orlando@nrc.gov.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public

R. Bush

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Document Room or from the Publicly Available Records component of NRC's ADAMS.
ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

/RA/

Dominick A. Orlando, Senior Project Manager
Materials Decommissioning Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

Enclosure:
Evaluation of Final Phytoremediation
Pilot Study

Docket No. WM-00070

cc: A. Gill, DOE/LM
M. Roanhorse, NNAML Reclamation

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Sincerely,

/RA/

Dominick Orlando, Senior Project Manager
Materials Decommissioning Branch
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Enclosure:
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cc: A. Gill, DOE/LM
M. Roanhorse, NNAML Reclamation

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