



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 10, 2017

John W. Cash
Vice President of Regulatory Affairs
Ur-Energy Inc.
5880 Enterprise Dr., Suite 200
Casper, WY 82609

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION STAFF REVIEW OF THE
SEMI-ANNUAL GROUNDWATER MONITORING REPORT FOR THE SHIRLEY
BASIN NORTH URANIUM MILL SITE (DOCKET NUMBER 040-6622)

Dear Mr. Cash:

I am writing in response to your letter, dated February 28, 2017, submitting the semi-annual groundwater monitoring report for the Shirley Basin North uranium mill site (Agencywide Document Access and Management System [ADAMS] Accession Number ML17072A370). The Nuclear Regulatory Commission (NRC) staff have reviewed the report and it appears that the constituents of concern in several wells are in excess of the Point of Compliance (POC) values for the site. Specifically, the following wells appear to exceed the POC values:

1. Gross alpha, and radium-226 and 228 in wells MC-10, MC-11, RPI-10 and RPI-21B;
and,
2. Chloride, total dissolved solids and uranium in well P-6.

Please review the groundwater monitoring results for these wells and determine if the values indicate a possible concern with the integrity of the disposal cell.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Section 2.390, a copy of this letter will be available electronically for public inspection in the NRC Public 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>.

If you have any questions, please contact me at: 301-415-6749 or via e-mail at:
Dominick.Orlando@nrc.gov.

Sincerely,

/RA/

Dominick A. Orlando, Senior Project Manager
Materials Decommissioning Branch
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket No. 040-06622

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION STAFF REVIEW OF THE
SEMI-ANNUAL GROUNDWATER MONITORING REPORT FOR THE SHIRLEY
BASIN NORTH URANIUM MILL SITE (DOCKET NUMBER 040-6622)

ADAMS Accession No.: ML17096A786

OFFICE	NMSS	NMSS	NMSS	NMSS	NMSS
NAME	D. Orlando	C.Holston	L.Guo	T. Smith	D.Orlando
DATE	4/10/17	4/11/17	5/03/17	5/09/17	5/10/17

OFFICIAL RECORD COPY