

August 16, 2012

Mr. Scott Surovchak, Site Manager  
Shirley Basin South  
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 GROUNDWATER ASSESSMENT PLAN  
FOR THE SHIRLEY BASIN SOUTH, WYOMING, URANIUM MILL TAILINGS  
RADIATION CONTROL ACT SITE, DATED JUNE 28, 2012

Dear Mr. Surovchak:

I am writing in response to the U.S. Department of Energy's (DOE's) letter dated June 28, 2012, (Agencywide Documents Access and Management System (ADAMS) Accession Number ML12193A334) in which you withdrew DOE's request to modify the monitoring program at the Shirley Basin South site and provided a plan to assess groundwater at the site. Your plan proposes to use the information from DOE's current sampling program and from past sampling programs to develop an assessment of the attenuation of the constituents of concern (COCs) at the site, evaluate the conceptual model for the site, assess the potential risk from the COCs, reevaluate the Alternate Concentration Limits (ACLs) based on this assessment and recommend a revision to the monitoring program, if appropriate. NRC staff has reviewed the Plan and have determined that it is acceptable.

In accordance with 10 CFR 2.390 of the NRC "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," 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 is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>.

S. Surovchak

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If you have any questions concerning the NRC staff comments, please contact me at 301-415-6749 or by email at [Dominick.Orlando@nrc.gov](mailto:Dominick.Orlando@nrc.gov)

Sincerely,

*/RA/*

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

Docket No.: 040-6659

cc: Shirley Basin South dist. list

S. Surovchak

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cc: Shirley Basin South dist. List

**ML12226A304**

<b>OFC</b>	DWMEP	DWMEP	DWMEP	DWMEP	DWMEP
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<b>DATE</b>	08/13/12	08/14/12	08/14/12	08/15/12	8/16/12

**OFFICIAL RECORD COPY**

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