

August 27, 2009

Attn: Document Control Desk
Doug Mandeville, Project Manager
Uranium Recovery Licensing Branch
Division of Waste Management
and Environmental Protection,
Office of Federal and State Materials
and Environmental Management Programs,
US Nuclear Regulatory Commission
Two White Flint North, MS T8F5
11545 Rockville Pike
Rockville, MD 20852

RE: ADDITIONAL INFORMATION REQUESTED FOR THE MOORE RANCH
IN SITU URANIUM RECOVERY PROJECT LICENSE APPLICATION
ENVIRONMENTAL REPORT, SECOND SET OF RESPONSES

Dear Mr. Mandeville:

By letter dated March 23, 2009, the U.S. Nuclear Regulatory Commission (NRC) staff provided a request for additional information (RAI) to complete review of the license application Environmental Report for the Moore Ranch In Situ Uranium Recovery Project. By this letter, Energy Metals Corporation dba Uranium One Americas (Uranium One) is submitting the second set of responses to the RAI. The attached responses address the following topical areas identified by NRC Staff:

- Responses to questions concerning surface waters and wetlands;
- Response to questions concerning surface water runoff;
- Responses to questions concerning surface water quality;
- Responses to questions concerning site area groundwater use;

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- Responses to questions concerning groundwater quality;
- Responses to questions concerning groundwater impacts;
- Responses to questions concerning groundwater consumption;
- Responses to questions concerning ecology;
- Responses to questions concerning public and occupational health;
- Responses to questions concerning public and occupational health impacts;
- Responses to questions concerning waste management impacts; and
- Responses to questions concerning land use.

Attached is a summary list of the RAI questions, submittal status, and submittal date. There are several responses that are still under development. For these responses, the summary provides the status of the response and the estimated response date. We expect to complete our responses to these final RAI Questions by September 15, 2009.

Following the summary list are the RAI responses. Each response provides the RAI question prepared by NRC with any clarifications provided by Staff, the answer prepared by Uranium One, and the proposed changes to the License Application. Changes are presented in a track changes mode for ease of review by NRC Staff.

Due to the number of questions concerning groundwater, a single copy of Section 3.4, Water Resources, and Section 4.4, Water Resources Impacts, is provided following the RAI responses with the consolidated changes for these sections.

Uranium One intends to submit a final revision to the Environmental Report (ER) incorporating the responses to all questions contained in this RAI following completion of responses to the remaining RAI items. That revision will also update the ER to incorporate changes that were made to the Technical Report in response to an RAI issued by NRC staff in 2008. Additionally, Uranium One is currently responding to open issues identified by NRC Uranium Recovery Branch Staff in relation to the Technical Report. Some of these responses will likely involve revisions to the Environmental Report. Uranium One is currently working on these open issue responses to allow inclusion in the updated ER.

If you should have any questions on these responses, please contact me by phone at (307) 234-8235 ext. 331 or by email at jon.winter@uranium1.com.

Sincerely,
Uranium One Americas



Jon Winter
Manager of Environmental and Regulatory Affairs, Wyoming

Enclosures: RAI Response Summary
Responses to NRC Request For Additional Information
Planned Changes to Section 3.4 – Water Resources
Planned Changes to Section 4.4 – Water Resources Impacts

cc: Behram Shroff, NRC