

December 10, 2009

US Nuclear Regulatory Commission  
Doug Mandeville, Project Manager  
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, SAFETY  
EVALUATION REPORT OPEN ISSUES.

Dear Mr. Mandeville:

By letters dated September 8 and September 17, 2009, the U.S. Nuclear Regulatory Commission (NRC) staff provided questions on open issues identified as part of the development of the Safety Evaluation Report (SER) for the License Application for the Moore Ranch In Situ Uranium Recovery Project.

Attached are Uranium One's responses to open issues (OI's) identified in the summary reports (July 27 & August 8 conference calls) attached to the September 8 and 17, 2009 letters. The responses include:

- A detailed written response to each SER open issue. If revisions to the Technical Report are necessary as a result of these responses, then the specific section of the Technical Report is presented in a redline strike-out format with the proposed revisions.
- A commitment that a revised Technical Report will be submitted at a later date, incorporating the responses presented in this submittal.

In consultation with Doug Mandeville – Moore Ranch Project Manager, NRC is aware that eight specific open issues were not included in this submittal package. Uranium One has retained a consultant to assist in developing responses to these remaining open issues and anticipates submittal of the remaining open issues within the next 30 days. These open issues include:

- From the July conference call, radiological open issue numbers 6a and 6f.
- From the August conference call, radiological open issue numbers 13, 16, 17, 18, 19 and 20.

Significant SER open issues addressed in this response package include, but are not limited to, updated hydrological information, health physics monitoring, meteorological information and Quality Assurance plan components.

If you 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](mailto:jon.winter@uranium1.com).

Sincerely,



Jon Winter

Manager, Wyoming Environmental and Regulatory Affairs

Enclosures: Safety Evaluation Report Open Issues responses for the July 27 and August 8, 2009 conference calls (2).