

June 24, 2013

John Buckley - Senior Project Manager
United States Nuclear Regulatory Commission
11545 Rockville Pike
Mail Stop T8F5
Rockville MD 20852

RE: Uranium One Request for Additional Information (RAI) response package for the Ludeman *IN SITU* Uranium Recovery Facility, Converse County, Wyoming – Docket No.: 04008502 Amendment Application to SUA 1341.

Dear Mr. Buckley:

Please find attached four CD's (two copies each) which contain responses to the NRC's request for additional information dated January 15, 2013 for the Ludeman Project Amendment Application to SUA -1341. One set of CD's contains responses and supporting documentation developed by Uranium One for the Application Technical Report and Environmental Report NRC RAI's. A second set of CD's contains responses to selected RAI's which are requested under 10 CFR 2.390 (b)(1)(ii) to be withheld from public disclosure. An affidavit to withhold this information is provided with this submittal.

As agreed upon with the NRC the format for this response package includes:

1. The original NRC RAI questions (Description of deficiency, Basis for Request and Formulation of RAI).
2. The Uranium One Response to each RAI including some or all of the items listed below:
 - A response to the RAI.
 - An insertion of the proposed change corresponding to a specific section of the TR or ER document that would address the RAI.
 - A supporting exhibit (Figure or Table) to address the RAI to be inserted into the final TR or ER.
 - A reference to an enclosed Appendix that contains information supporting a given RAI response that was longer and more complex or contained responses to multiple RAI questions. This submittal contains a total of five Appendices, two that support RAI responses for the Technical Report and three that support RAI responses for the Environmental Report.

There were five RAI's that Uranium One did not provide responses for. RAI's not addressed in the Technical Report included RAI's # 6, 7, 8 (Cross Sections) and RAI # 100 (Naming sands in the Leuenberger area), and RAI WR1 (revised Isopachs in the Leuenberger & Peterson area) in the Environmental Report. Uranium One is reevaluating the geology in select areas of the Leuenberger area as a function of obtaining new additional geologic drilling data. Uranium One anticipates submitting responses to these RAI's by early to mid July.

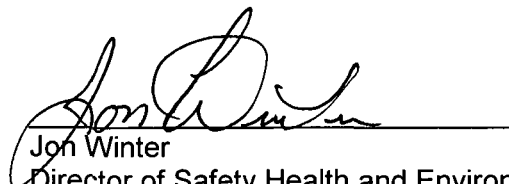
Modifications to some operational components of the Ludeman Project were discussed and presented to the NRC during the first quarter of 2013. These modifications were also evaluated in context to the RAI's and addressed when appropriate. However, one modification presented was the option to construct evaporation ponds to manage waste water (both 11e(2) and non 11e(2)) in addition to, or replacement of, deep disposal wells. Uranium One is currently developing the design package for the evaporation ponds option and will supplement the Amendment Application with this information in the near future. Listed below are the document components of the attached CD's.

Document Components:	File Size
OSM: Acceptance Review Response Package	
001_TR RAI Response Package.pdf	13,143 KB
002_TR Appendix A.pdf	1,733 KB
003_TR Appendix B.pdf	7,271 KB
004_ER RAI Response Package.pdf	12,107 KB
005_ER Appendix A.pdf	1,565 KB
006_ER Appendix B.pdf	728 KB
OSM: Historic and Cultural Resources RAI Responses 10 CFR 2.390	
007_Appendix C.pdf	30,485 KB

Note: The electronic documents are in Adobe PDF format that meet the NRC requirements for electronic submittals including optical character recognition (OCR), a resolution of 300 dpi and embedded fonts. Preparation of the electronic files was conducted as per previous electronic submittal correspondence with Mr. Kenny Nguyen, IT Specialist/Project Officer with the NRC.

If you have any questions or need additional information please do not hesitate to contact me at 307-234-8235, ext. 331 or via email at jon.winter@uranium1.com.

Sincerely,



Jon Winter
Director of Safety Health and Environment
Uranium One Americas

Encl: CD's – TR & ER RAI responses (2).
CD's - Responses to selected RAI's which are requested under 10 CFR 2.390 (b)(l)(ii) to be withheld from public disclosure (2).
Affidavit to withhold cultural resource information from public disclosure request (1).

cc: J. Powell – WDEQ-LQD w/o attachments
D.L. Wichers – Sr. VP Uranium One Americas w/o attachments

**AFFIDAVIT TO WITHHOLD CULTURAL RESOURCE INFORMATION
FROM PUBLIC DISCLOSURE REQUEST**

The information required by 10 CFR §2.390 (b)(1)(ii) includes:

A. Document or part to be withheld:

Appendix C: (separate CD) containing responses to questions CR-1 through CR-4 of the Ludeman Amendment Application Environmental Report NRC RAI's.

B. Name and official position of the person making the affidavit:

Jon Winter, Director Safety Health and Environment, Uranium One Americas

C. Basis for proposing the information withheld:

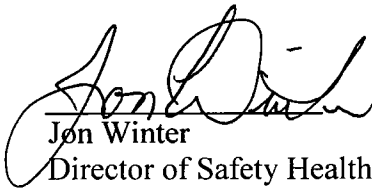
In accordance with the National Historic Preservation Act Section 304 (16 U.S.C. 470w-3(a)) information on the nature or location of archeological and historical sites shall not be made available to the public. Accordingly, disclosure is specifically exempted by statute as specified in 10 CFR §2.390(a)(3).

D. Statement of harm that would result if the information sought to be withheld is disclosed to the public:

Both federal and state agency policies hold that public disclosure of information on the nature or location of archaeological and historical sites will increase the likelihood of trespassing, vandalism and theft and will contribute to illegal traffic in antiquities.

E. Location in the document of all information sought to be withheld:

The cultural resource information sought to be withheld is located in Appendix B of the Ludeman Amendment Application, Environmental Report, RAI responses (Appendix C) prepared by Uranium One.



Jon Winter
Director of Safety Health and Environment
Uranium One Americas

LOGO

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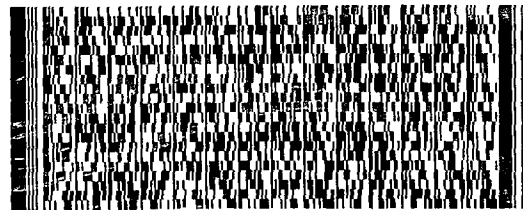


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SHIP TO: (301) 415-6607
Mr. John Buckley
U.S. NRC
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ROCKVILLE, MD 20852

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