

June 2, 2015

MEMORANDUM TO: Bill Von Till, Chief  
Uranium Recovery Licensing Branch  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

FROM: Elise Striz, Project Manager */RA/*  
Uranium Recovery Licensing Branch  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: PUBLIC MEETING SUMMARY

On April 23, 2015, a Public Meeting was held with Uranium One, USA, at U.S. Nuclear Regulatory Commission Headquarters. The purpose of the meeting was to discuss Uranium One's request for clarification on how to provide responses to the second round of targeted Requests for Additional Information for the Ludeman In Situ Recovery application. A summary of the meeting is enclosed.

Enclosure: Meeting Summary

cc: Meeting Attendees (via email)

CONTACT: Elise Striz, NMSS/DUWP  
(301) 415-0708

June 1, 2015

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Uranium Recovery Licensing Branch  
Division of Decommissioning, Uranium Recovery  
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Office of Nuclear Material Safety  
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(301) 415-0708

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Meeting Attendees

**ML15152A497**

OFFICE	DUWP	DUWP	FSCE/ERB	DUWP
NAME	JWebb	SAchten	K. Jamerson	EStriz
DATE	6/2/15	6/1/15	6/2/15	6/2/15

OFFICIAL RECORD COPY

## MEETING REPORT

DATE: April 23, 2015

TIME: 1:00 p.m. to 3:00 p.m.

PLACE: U.S. Nuclear Regulatory Commission  
Two White Flint North, Rockville, Maryland  
Room T8C5c

PURPOSE: The purpose of the meeting was to provide guidance to Uranium One for their preparation of responses to the second round of targeted Requests for Additional Information (RAIs) for the Ludeman In Situ Recovery (ISR) application.

ATTENDEES:

See Attendees List (Attachment 1).

BACKGROUND:

Uranium One, USA, provided a response to RAIs for the Ludeman ISR application on June 14, 2013. Staff found the response to the safety RAIs to be incomplete. Uranium One submitted additional RAI response information on November 4, 2013. Staff found many of these remaining safety RAI responses to still be incomplete. On Dec. 18, 2014, NRC sent a letter to Uranium One with targeted RAIs to address deficiencies in several of the responses. In April 2015, Uranium One requested a public meeting to receive guidance from NRC on how to respond to these targeted RAIs.

DISCUSSION:

NRC staff read the opening statement for the meeting. Attendees of the meeting were asked to provide brief introductions and sign the attendance sheet (Attachment 1). NRC staff provided an overview of the discussion topics planned for the meeting, which can be found in the agenda (Attachment 2).

Uranium One began the meeting by going sequentially through the targeted safety RAIs for which they required additional guidance from the NRC staff. The first targeted RAI discussed was No. 90 in which NRC requested information on selection of sampling locations based on data collected from the onsite met data station. Uranium One stated they had installed an onsite met data station and collected data which compared well to a nearby long term met data station at the Glenrock Coal site. Uranium One stated they will use the on-site data to run a revised MILDOS model. Uranium One stated they had identified the location of the "maximally exposed individual" as being greater than one mile east of the proposed ion exchange satellite building. NRC staff asked if they had evaluated other residents closer to this building and if they had done a dose assessment for these residents. Uranium One said they had, and would be willing to put an air monitoring station between the satellite facility and these residents to verify dose.

Enclosure

Based on further discussion Uranium One agreed to install this station, with the location dependent on an available power source.

Further discussion on RAI 90 involved the requirement that Uranium One provide a site specific effluent monitoring plan. Uranium One had originally indicated that the overarching LC 11.3 from the Willow Creek license provided the effluent monitoring methodology and indicated that license condition should be sufficient to describe effluent monitoring at the Ludeman satellite. NRC staff reinforced that Uranium One needs to provide a site specific effluent monitoring plan at Ludeman which addresses site specific features such as header houses, evaporation ponds, etc. Uranium One agreed to provide a site specific effluent monitoring plan with sampling locations and frequency described.

The next targeted RAIs discussed were Nos. 47 and 48. Uranium One requested guidance on the requirement to collect stream sediment samples when stream beds are dry. NRC staff expressed concerns about potential spills and stated that sediment samples should be collected whether the streams are flowing or not. NRC staff indicated the sediments would have been wetted by intermittent precipitation events sufficiently to enable them to be used to characterized sediment pre-operational background values for Reg. Guide 4.14. NRC staff also reinforced that on-site impoundments should also be sampled.

Finally for targeted RAI 49, Uranium One requested guidance on livestock and vegetation sampling. NRC staff stated that pre-operational livestock and vegetation samples must be provided in accordance with Reg. Guide 4.14. NRC staff stated that it is probable that the residents in the nearby Negley subdivision have gardens and livestock which could be sampled.

Upon completion of the targeted safety RAI discussion, Uranium One then proceeded to address the targeted environmental RAIs for which they required additional guidance. The first targeted RAIs discussed were RAI WR-1A and WR-1B which requested that isopachs provided for the proposed Peterson wellfields be extended to the North Platte River. Uranium One indicated they were not sure if there were wells which could be used as controls for isopachs. They committed to look for such controls and extend the isopachs as requested.

The next environmental RAIs discussed were CR-3A and CR-4A which requested original maps, photographs and comprehensive justifications of eligibility recommendations for cultural sites. Uranium One inquired if there was enough information provided in the June 2013 RAI submission to meet the needs of this targeted RAI. The environmental project manager said she would review the response and get back to them.

Uranium One asked what they could do to facilitate the Section 106 process. The environmental project manager asked for dates when Uranium One would submit responses to the targeted RAIs to which Uranium One replied June 2015. The project manager stated it would be possible to re-engage the Section 106 process after the submittal in June. Uranium One also committed to provide a map of the area of potential effects to cultural properties to the environmental project manager by May 8, 2015.

There were no questions posed by members of the public.

ACTION ITEMS

During the meeting, the following actions items were initiated:

1. The NRC environmental project manager will review the June 2103 responses to CR-3A and CR-4A and inform Uranium One of her assessment by May 1, 2015.
2. Uranium One will provide a map of the area of potential effects to cultural properties by May 8, 2015.

The meeting concluded and adjourned at approximately 2:55 p.m. Eastern time.

Attachments:

1. List of Attendees
2. Meeting Agenda

Meeting Attendees  
Date: Thursday April 23, 2015  
Room TWFN 8C5C  
1:00 pm to 3:00 pm

Topic: Discussion of Uranium One ISR Ludeman Satellite Application Targeted RAIs

<b>NAME</b>	<b>AFFILIATION</b>
Elise Striz	U.S. NRC
Doug Mandeville	U.S. NRC
Lydia Chang	U.S. NRC
Kellee Jamerson	U.S. NRC
Jill Caverly	U.S. NRC
David Brown	U.S. NRC
Ron Burrows	U.S. NRC
James Webb	U.S. NRC
Jon Winter	TREK (contractor to Uranium One)
Scott Schierman	Uranium One

MEETING AGENDA  
Uranium One Ludeman ISR Application April 23, 2015  
1:00 p.m. - 3:00 p.m.

NRC Two White Flint North, T8C5c  
11545 Rockville Pike  
Rockville, MD

MEETING PURPOSE: To provide guidance to Uranium One for their preparation of responses to the second round of targeted RAIs for the Ludeman ISR application

MEETING PROCESS:

<u>Time</u>	<u>Topic</u>	<u>Lead</u>
1:00 p.m.	Introductions, Opening Remarks	All
1:05 p.m.	Discussion of Specific Targeted RAIs for Safety Review	Uranium One
2:05 p.m.	Discussion of Specific Targeted RAIs for Environmental Review	Uranium One
2:45 p.m.	Questions from Public	Public
2:55 p.m.	Closing Remarks, Adjourn	NRC