



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

September 21, 2018

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

FROM: Douglas Mandeville, Sr. Project Manager */RA/*
Uranium Recovery Licensing Branch
Division of Decommissioning, Uranium Recovery,
and Waste Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF SEPTEMBER 12, 2018, MEETING WITH POWER
RESOURCES, INC.

On September 12, 2018, U. S. Nuclear Regulatory Commission (NRC) staff met via teleconference with Power Resources, Inc., doing business as Cameco Resources. The purpose of the meeting was to discuss the NRC staff's proposed license conditions for the renewal of the Smith Ranch Highland License (NRC License SUA-1548). The list of attendees; meeting agenda; and meeting summary are enclosed.

Docket Numbers: 40-8964
License Numbers: SUA-1548

Enclosures:

1. Meeting Summary
2. Meeting Attendees
3. Meeting Agenda

cc: Meeting Attendees (via e-mail)

CONTACT: Douglas Mandeville, NMSS/DUWP
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SUBJECT: SUMMARY OF SEPTEMBER 12, 2018, MEETING WITH POWER
RESOURCES, INC. **DATE September 21, 2018**

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ADAMS Accession Number: ML18257A105

OFFICE	DUWP
NAME	D. Mandeville
DATE	9/21/2018

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MEETING SUMMARY

DATE: September 12, 2018

TIME: 10:00 a.m. to 12:00 p.m.

PLACE: Teleconference

PURPOSE: Discuss the NRC staff's proposed license conditions for the renewal of the Smith Ranch Highland License (NRC License SUA-1548)

ATTENDEES:

See List of Attendees (Enclosure 2).

BACKGROUND:

Power Resources, Inc., doing business as Cameco Resources (Cameco), currently operates the Smith Ranch Highland Uranium Project in Wyoming. Smith Ranch Highland is authorized to operate by the U.S. Nuclear Regulatory Commission (NRC) under Source Material License SUA-1548. This license is currently in timely renewal.

As part of its process for finalizing the safety evaluation report for the renewal of license SUA-1548, the NRC staff provided Cameco with a copy of the draft license on September 4, 2018 (NRC Agencywide Documents Access and Management System (ADAMS) Accession Number ML18247A276). The purpose of this meeting was to discuss these draft license conditions and to receive comments from Cameco on the proposed conditions.

DISCUSSION:

NRC staff read the opening statement for the meeting. Attendees of the meeting were asked to provide brief introductions. NRC staff provided an overview of the draft license and options to provide comments on the draft license. Enclosure 3 contains the meeting agenda.

A summary of the key discussion points from the meeting is provided below. The NRC staff organized the discussion by license condition number. Note that the list below includes only those license conditions that were discussed.

License Condition 10.1.1

Cameco stated the condition does not include Satellite #3. The NRC staff will include Satellite #3 in the list of satellites identified in the license condition.

License Condition 10.1.2

Cameco stated Section 4.1 of the May 6, 2003, application, which is cited in the draft license condition, includes discussion of the calciner dryer that no longer exists at the Highland Processing Facility. Cameco explained that the calciner dryer was removed from the Highland

Processing Facility during renovations and has been replaced with a vacuum dryer. Cameco explained that license conditions 10.1.2a and 10.1.2b are related to the old calciner dryer at Highland. As that dryer has been removed and replaced with a vacuum dryer, Cameco stated that conditions 10.1.2a and 10.1.2b are no longer necessary in the license. Cameco proposed changing the condition to refer to Section 4.1.3 of the May 6, 2003 application and removal of conditions 10.1.2a and 10.1.2b.

The NRC staff will verify that it has information supporting the statement that the calciner dryer has been removed from Highland and has been replaced with a vacuum dryer. If this information is verified, the NRC staff will address this in the SER and revise the license accordingly.

License Condition 10.1.8

Cameco acknowledged the change in this condition to reflect the appropriate ground water restoration standards in 10 CFR Part 40 Appendix A Criterion 5B(5).

License Condition 10.1.10

Cameco commented that the citation to 10 CFR Part 40, Appendix B, Criterion 6(6) should be to 10 CFR Part 40, Appendix A, Criterion 6(6).

The NRC staff will revise the license condition.

License Condition 10.1.11

Cameco stated that it has already collected air samples from the Selenium Treatment Plant, but that it did not provide the data in the application. Given the limited time available to complete the safety review, the NRC staff recommended that Cameco not revise the application. The NRC staff explained that the condition does not require submittal of the data for NRC review. The NRC staff further explained that, in this case, Cameco may already have the data necessary to meet the draft license condition and that it need only revise its radiation protection program, as necessary, to reflect the results of its evaluation.

License Condition 10.1.16

Cameco stated that the condition does not have a clear endpoint for stability monitoring if it can not demonstrate stability. NRC staff stated that demonstration of stability is an important aspect of meeting the ground water restoration criteria. The meeting participants did not propose changes to this condition, but both Cameco and the NRC staff will re-evaluate the text of the condition.

License Condition 10.1.19

Cameco understands the condition.

Questions from the Public

David Adams, from the Wyoming Department of Environmental Quality, had several questions for the NRC staff. His first question pertained to license condition 10.1.10, and the origin of the specified radionuclide concentration limits in soil and soil depths. The NRC staff agreed to

provide Mr. Adams the NRC staff's original safety evaluation that authorized disposal operations at the land application facility. Mr. Adams' asked for an explanation of how the NRC staff arrived at the effluent quantity limits in license condition 10.1.19. Mr. Brown explained how he arrived at these limits and stated that a detailed explanation, including independent calculations, will be available when NRC publishes its SER. Mr. Adams' also asked about equilibrium fractions between radon and its short-lived progeny and how radon progeny effluent quantities should be accounted for in the licensee's semi-annual effluent reports. Mr. Brown explained that the simplest method for the licensee to comply is to assume effluent quantities of short-lived radon progeny are in equilibrium with effluent quantities of radon. However, under license condition 10.1.19, the licensee could choose an alternative method, which involves first determining equilibrium fractions, and then calculating effluent quantities of each short-lived radon progeny separately.

ACTION ITEMS:

The NRC staff identified the following action items during the meeting:

1. The NRC staff will consider Cameco's proposed changes to license conditions 10.1.1, 10.1.2, and 10.1.10.
2. Cameco and the NRC staff will consider potential revisions to license condition 10.1.16.
3. NRC staff will issue a revised draft license for Cameco's consideration.
4. The NRC staff will complete the meeting summary within 30 working days.

The meeting concluded at approximately 11:20 a.m. Eastern Daylight Time.

Meeting Attendees
Date: September 12, 2018
Teleconference
10:00 a.m. to 12:00 p.m.

Topic: Discuss the NRC staff's proposed license conditions for the renewal of the Smith Ranch Highland License (NRC License SUA-1548)

NAME	AFFILIATION
Doug Mandeville	NRC
Elise Striz	NRC
Dave Brown	NRC
Larry Reimann	Cameco
Beth Frye	Cameco
Doug Pavlick	Cameco
David Adams	Wyoming Department of Environmental Quality

PUBLIC MEETING AGENDA:

Discuss the NRC staff's proposed license conditions for the renewal of the Smith Ranch
Highland License (NRC License SUA-1548)

September 12, 2018 10:00 a.m. to 12:00 p.m.
Teleconference

MEETING PROCESS:

<u>Time</u>	<u>Topic</u>	<u>Lead</u>
10:00 a.m.	Introductions	All
	Opening Remarks	NRC
10:05 a.m.	Discussion of Draft License SUA-1548	NRC and Cameco
11:45 a.m.	Public Comments	
11:55 a.m.	Closing Remarks	
12:00 p.m.	Adjourn	