

May 2, 2013

Mr. Josh Leftwich
Director of Radiation Safety and Licensing
Cameco Resources
2020 Carey Avenue
Suite 600
Cheyenne, WY 82001

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING CAMECO
RESOURCES LICENSE RENEWAL REQUEST FOR THE SMITH RANCH
HIGHLAND URANIUM *IN SITU* RECOVERY FACILITY, CONVERSE,
JOHNSON, CAMPBELL, AND NATRONA COUNTIES, WYOMING

Dear Mr. Leftwich:

By letter dated February 1, 2012, Power Resources, Inc., doing business as Cameco Resources (Cameco) submitted to the U.S. Nuclear Regulatory Commission (NRC) a request to renew Source Material License SUA-1548. License SUA-1548 authorizes Cameco to operate a uranium *in situ* recovery (ISR) facility at its Smith Ranch Highland Uranium Project and its associated remote satellite facilities at Ruth, North Butte, and Gas Hills. The Technical and Environmental Reports supporting the license amendment request are publicly available in NRC's Agency-wide Documents Access and Management System (ADAMS) under Accession Numbers ML12234A537 and ML12234A539, respectively.

The staff has completed its review of the license renewal request. The Technical Report was reviewed in accordance with the NUREG-1569, "Standard Review Plan for In Situ Leach Uranium Extraction License Applications," Final Report, June 2003, and the Environmental Report was reviewed in accordance with NUREG-1748, "Environmental Review Guidance for Licensing Actions Associated with NMSS Programs," August 2003. The staff has determined that additional information is required in order to complete our safety and environmental reviews of the proposed action. Enclosed are the staff's Requests for Additional Information (RAIs) that identify the information needed for the continued review of your license amendment request. Enclosure 1 contains the Technical Report RAIs, and Enclosure 2 contains the Environmental Report RAIs.

NRC is requesting that Cameco provide responses to the RAIs. Cameco should consider preparing a table identifying the RAI response and where the information is located in the revised Technical and Environmental Reports. Cameco is encouraged to contact NRC if clarification is required for any RAI.

In accordance with 10 CFR 2.390 of NRC's "Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of ADAMS. ADAMS is accessible from the NRC Web site at:
<http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions, please contact me at douglas.mandeville@nrc.gov or (301) 415-0724.

Sincerely,

/RA/

Douglas T. Mandeville, Senior Project Manager
Uranium Recovery Licensing Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
Office of Federal and State Materials
and Environmental Management Programs

Docket No.: 04008964

Enclosures:

1. Technical Report RAls
2. Environmental Report RAls

cc:

Pam Rothwell (WDEQ)
Mark Taylor (WDEQ)
Mark Moxley (WDEQ)

J. Leftwich

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Sincerely,

/RA/

Douglas T. Mandeville, Senior Project Manager
Uranium Recovery Licensing Branch
Decommissioning and Uranium Recovery
Licensing Directorate
Division of Waste Management
and Environmental Protection
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and Environmental Management Programs

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Enclosures:

1. Technical Report RAIs
2. Environmental Report RAIs

cc:

Pam Rothwell (WDEQ)
Mark Taylor (WDEQ)
Mark Moxley (WDEQ)

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