

November 5, 2014

Mr. Larry Teahon
SHEQ Manager
Cameco Resources
Crow Butte Operation
86 Crow Butte Road
Crawford, NE 69339

SUBJECT: MATERIALS LICENSE SUA-1534, LICENSE RENEWAL, CROW BUTTE RESOURCES, INC., CROW BUTTE URANIUM IN SITU RECOVERY PROJECT, DAWES COUNTY, NEBRASKA (TAC J00555)

Dear Mr. Teahon:

By letter dated November 27, 2007, Crow Butte Resources, Inc. (CBR) submitted a license renewal application (LRA) to the U.S. Nuclear Regulatory Commission (NRC) for the renewal of Source and Byproduct Materials License SUA-1534 for the extraction and recovery of uranium source material at its Crow Butte In-Situ Recovery (ISR) Project in Dawes County, Nebraska. The LRA was accepted for NRC review on March 28, 2008. A notice of license renewal request and opportunity to request a hearing was published in the Federal Register on May 27, 2008.

During the LRA review process, the NRC staff's review was aided by CBR's responses to requests for additional information on the LRA. CBR supplemented the LRA with submittals dated August 28, 2008, May 12, 2009, July 13, 2009, September 17, 2010, September 28, 2010, February 8, 2012, April 19, 2012, August 16, 2012, August 30, 2012, and October 4, 2012, March 4, 2014, and May 15, 2014.

The NRC staff completed its environmental review of the Crow Butte Uranium ISR Project and documented its findings in an Environmental Assessment dated October 2014. The staff's finding of no significant impact was published in the Federal Register on October 30, 2014.

During the safety review, the NRC staff developed proposed license conditions for the Crow Butte Uranium ISR Project and issued a draft license on May 23, 2011. The staff subsequently issued five revisions of the draft license to CBR on August 11, 2011, March 8, 2012, November 15, 2012, May 23, 2014, and July 18, 2014. CBR agreed to the license conditions in the draft license by e-mails dated January 2, 2013 and July 29, 2014. The renewed Source and Byproduct Materials License for the Crow Butte Uranium ISR Project is provided as Enclosure 1.

The NRC has found that the LRA for the Crow Butte Uranium ISR Project materials license complies with the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. Based on its review, the NRC staff concludes that the LRA meets the applicable requirements in 10 CFR Parts 20 and 40. More specifically, in accordance with 10 CFR 40.32(b)-(c), the staff finds that CBR is qualified by reason of training and experience to use source material for the purpose that it requested, and that CBR's proposed equipment and procedures for use at its Crow Butte Uranium ISR Project facility are adequate to protect public

health and minimize danger to life or property. The NRC staff's review supporting these findings is documented in its Safety Evaluation Report (ML14149A433), which is provided as Enclosure 2 to this letter.

Therefore, in accordance with 10 CFR 40.32(d), the NRC staff finds that issuance of a license to CBR will not be inimical to the common defense and security or to the health and safety of the public. The NRC staff also finds in accordance with 10 CFR 40.32(e), after weighing the environmental, economic, technical, and other benefits against environmental costs and considering available alternatives, that the appropriate action is to issue renewed Materials License SUA-1534 (Enclosure 1).

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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 NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions concerning the above, please contact Mr. Ronald A. Burrows at (301) 415-6443, or via e-mail at Ronald.Burrows@nrc.gov.

Sincerely,

/RA/

Larry W. Camper, Director
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket No.: 040-08943
License No.: SUA-1534

Enclosures:

1. Source Materials License
2. Safety Evaluation Report

cc:

Doug Pavlick, Cameco
Pat Rice, NDEQ

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Docket No.: 040-08943
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- 1. Source Materials License
- 2. Safety Evaluation Report

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Pat Rice, NDEQ

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