



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

December 5, 2016

Mr. Larry Teahon, Manager  
SHEQ  
Cameco Resources  
Crow Butte Operation  
86 Crow Butte Road  
P.O. Box 169  
Crawford, NE 69339-0169

SUBJECT: LICENSE AMENDMENT NO. 1, CROW BUTTE RESOURCES, INC.,  
CRAWFORD, NEBRASKA, SOURCE MATERIALS LICENSE SUA-1534  
(TAC NO. L00798)

Dear Mr. Teahon:

The U.S. Nuclear Regulatory Commission (NRC) is granting an exemption to 10 CFR 20.1204(g)(1) requested by Crow Butte Resources, Inc. (CBR, or the licensee) in a response to a request for additional information dated September 21, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15310A373). Specifically, the licensee requested that it not be required to use the total beta activity of radionuclide mixtures in air when demonstrating compliance with the dose limits in 10 CFR 20.1201. The NRC staff reviewed survey data presented by the licensee and determined that an exemption to 10 CFR 20.1204(g)(1) in regards to beta activity for the purpose of demonstrating compliance with the dose limits in 10 CFR 20.1201 was warranted, provided that CBR periodically assesses the mixture of airborne radionuclides present at its facility against a specific regulatory limit. License Condition 10.8 in Materials License SUA-1534 has been revised to reflect the terms of the exemption. The enclosed Safety Evaluation Report (SER) provides the details of the NRC staff's analysis. A notice of this exemption was published in the Federal Register on November 21, 2016.

In addition, the NRC is removing or modifying license conditions that CBR has addressed as required in its renewed license issued on November 5, 2014 (ADAMS Accession No. ML13324A101). These include LC 10.12, LC 11.11, and LC 11.14 to LC 11.16. Each of these license conditions is discussed in the SER (Enclosure 1). LC 11.13 was modified because the licensee updated its effluent and environmental monitoring program with submittals required by LC 11.11.

Lastly, LC 9.2 was modified by adding references to CBR's recently submitted information and commitments that address the license conditions discussed above. LC 9.2, commonly referred to as the tie-down condition, requires the licensee to conduct operations in accordance with the commitments, representations, and statements contained in the license application and other submissions as noted. Please see the SER (Enclosure 1) for the specifics of the modification.

L. Teahon

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Enclosure 2 contains Amendment 1 to Materials License SUA-1534. By e-mail dated November 2, 2016, CBR agreed to these changes in Materials License SUA-1534 (see ADAMS Accession No. ML16308A346).

As a result of this amendment, the NRC staff has completed its work on Cost Activity Code (CAC) L00798 (10 CFR 20.1204 Exemption Request). Therefore, this CAC will be closed with no further charges against it.

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 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 Mr. Ronald A. Burrows at 301-415-6443, or by e-mail at [Ronald.Burrows@nrc.gov](mailto:Ronald.Burrows@nrc.gov).

Sincerely,

*/RA/*

Andrea Kock, Deputy Director  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

Docket No.: 040-8943  
License No.: SUA-1534

Enclosures:

1. Safety Evaluation Report
2. Amendment 1 to License SUA-1534

cc: D. Miesbach, NDEQ  
D. Pavlick, CBR

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Andrea Kock, Deputy Director  
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1. Safety Evaluation Report
2. Amendment 1 to License SUA-1534

cc: D. Miesbach, NDEQ  
D. Pavlick, CBR

**DISTRIBUTION:** L. Gersey, R-IV J. Whitten, R-IV

**ADAMS Accession No.:** ML16078A233 (Pkg.); ML16078A235 (Ltr.); ML16078A238 (Encl. 1); ML16078A239 (Encl. 2)

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