November 30, 2007

Mr. Stephen P. Collings
President
Crow Butte Resources, Inc.
141 Union Boulevard, Suite 320
Lakewood, CO 80228

SUBJECT: LICENSE AMENDMENT NO. 22, CENTRAL PROCESSING PLANT UPGRADE, CROW BUTTE RESOURCES, INC., CRAWFORD, NEBRASKA, SUA-1534 (TAC J00509)

Dear Mr. Collings:

By letter dated October 17, 2006, Crow Butte Resources, Inc. (CBR) submitted to the U.S. Nuclear Regulatory Commission (NRC) a request to amend License Condition (LC) 10.5. Specifically, CBR seeks to increase its central processing plant throughput from 5,000 gallons per minute (gpm) to 9,000 gpm. CBR intends to accomplish this increase by installing (6) new ion exchange columns used to extract uranium from pregnant lixiviant.

NRC staff reviewed the license amendment request and issued a request for additional information (RAI) on March 9, 2007. CBR responded to this RAI on April 27, 2007. After reviewing the application and RAI response, NRC staff determined that the amendment request is acceptable. NRC staff issued its final environmental assessment and Finding of No Significant Impact on October 31, 2007. NRC staff is issuing the license amendment and Technical Evaluation Report (TER), which are enclosed with this letter. In addition to LC 10.5, NRC staff modified LC 9.2 to revise the mailstop for correspondence, and LC 9.3 was modified to reference the plant upgrade application and the response to the staff's RAI. As required by LC 9.5 and as stated in the enclosed TER, 90 days prior to construction CBR must provide an updated surety that includes costs for decommissioning the additional equipment addressed by this license amendment.

If you have any questions regarding this amendment, please contact Mr. Stephen J. Cohen, Project Manager, at 301-415-7182 or, by email, at sjc7@nrc.gov.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

Sincerely,

/RA/

Keith I. McConnell, Deputy Director
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.: 40-8943
License No.: SUA-1534

Enclosures: 1. Technical Evaluation Report
2. License Amendment No. 22

cc: S. Fischbein, NDEQ
L. Teahon, CBR

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Sincerely,

/RA/

Keith I. McConnell, Deputy Director
Decommissioning and Uranium Recovery
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L. Teahon, CBR

(CLOSES TAC J00509)

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