



# CROW BUTTE RESOURCES, INC.

141 Union Blvd., Suite 330  
Lakewood, Colorado 80228  
Tel: (720) 879-5140  
Fax: (720) 917-0188

May 30, 2007

Mr. Charles L. Miller, Director  
Office of Federal and State Materials and Environmental Management Programs  
U. S. Nuclear Regulatory Commission  
Two White Flint North, Mailstop T8F5  
11545 Rockville Pike  
Rockville, MD 20852

RE: Request for License Amendment  
Docket No. 40-8943  
License No. SUA-1534

Dear Mr. Miller:

Crow Butte Resources, Inc. (CBR) is submitting this request for an amendment to Source Materials License SUA-1534 for the development of additional uranium in-situ leach mining resources. The proposed development area for use as a satellite facility to the main CBR plant is referred to as the North Trend Expansion Area.

Enclosed with this letter is NRC Form 313, with associated additional information. Under separate cover CBR is sending three copies of the amendment application.

If you or your staff has any questions regarding CBR's application for the license amendment please contact me.

Sincerely,

Stephen P. Collings  
President

*[Faint, illegible text, likely a carbon copy or bleed-through from the reverse side of the page.]*



A member of the Cameco group of companies

<b>NRC FORM 313</b> (10-2005) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>	<b>APPROVED BY OMB: NO. 3150-0120</b> Estimated burden per response to comply with this mandatory collection request: 4.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to <a href="mailto:infocollects@nrc.gov">infocollects@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
<h2 style="margin: 0;">APPLICATION FOR MATERIAL LICENSE</h2>		

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

<b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b>  DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001  <b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b>  <b>IF YOU ARE LOCATED IN:</b>  ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:  LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415	<b>IF YOU ARE LOCATED IN:</b>  ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:  MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 Lisle, IL 60532-4352  ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:  NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-4005
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**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

<b>1. THIS IS AN APPLICATION FOR (Check appropriate item)</b> <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>SUA-1534</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____	<b>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</b> Crow Butte Resources, Inc. 141 Union Blvd. Suite 330 Lakewood, CO 80228				
<b>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</b> Crow Butte Resources, Inc. Dawes County Nebraska 86 Crow Butte Road Crawford, NE 69339	<b>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</b> Stephen P. Collings  <b>TELEPHONE NUMBER</b> (720) 879-5518				
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.					
<b>5. RADIOACTIVE MATERIAL</b> a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.	<b>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</b>				
<b>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</b>	<b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</b>				
<b>9. FACILITIES AND EQUIPMENT.</b>	<b>10. RADIATION SAFETY PROGRAM.</b>				
<b>11. WASTE MANAGEMENT.</b>	<b>12. LICENSE FEES (See 10 CFR 170 and Section 170.31)</b> FEE CATEGORY <u>2.A.(2)</u> AMOUNT ENCLOSED \$ <u>0.00</u>				
<b>13. CERTIFICATION. (Must be completed by applicant)</b> THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.  THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.  WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.					
<b>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</b> Stephen P. Collings, President	<b>SIGNATURE</b>  <b>DATE</b> 5-25-07				
FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
<b>APPROVED BY</b>				<b>DATE</b>	

**APPLICATION FOR AMENDMENT  
SOURCE MATERIALS LICENSE SUA-1534  
DOCKET NUMBER 40-8943**

**Responses to Items 5 through 11, NRC Form 313  
Page One**

**Licensee:** Crow Butte Resources, Inc.  
141 Union Blvd, Suite 330  
Lakewood, Colorado 80228

**5. RADIOACTIVE MATERIAL:**

a) Element and Mass Number:

Uranium (natural uranium, or Unat; a mixture of  $U_{238}$ ,  $U_{234}$ , and  $U_{235}$ )

b) Chemical and/or physical form:

Chemical form is  $U_3O_8$ ; uranium product is termed yellowcake and is present as a solution (0 to 50 grams/liter), a slurry (1% to 50% U), or dried product (50% to 80% U).

c) Maximum amount which will be possessed at any one time:

Crow Butte Resources, Inc. requests Unlimited possession amount.

**6. PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED:**

Fuel for the generation of electricity by nuclear power plants.

**7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE:**

This information is provided in detail in Section 5.0 of Crow Butte Resources, Inc.'s "Application for Amendment of USNRC Source Materials License SUA-1534 North Trend Expansion Area Technical Report Volume I".

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS:**

This information is provided in detail in Section 5.0 of Crow Butte Resources, Inc.'s "Application for Amendment of USNRC Source Materials License SUA-1534 North Trend Expansion Area Technical Report Volume I".

**9. FACILITIES AND EQUIPMENT:**

This information is provided in detail in Section 3.0 of Crow Butte Resources, Inc.'s "Application for Amendment of USNRC Source Materials License SUA-1534 North Trend Expansion Area Technical Report Volume I".

**10. RADIATION SAFETY PROGRAM:**

This information is provided in detail in Section 5.0 of Crow Butte Resources, Inc.'s "Application for Amendment of USNRC Source Materials License SUA-1534 North Trend Expansion Area Technical Report Volume I".

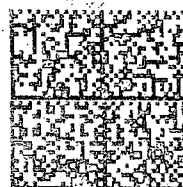
**11. WASTE MANAGEMENT:**

This information is provided in detail in Section 5.0 of Crow Butte Resources, Inc.'s "Application for Amendment of USNRC Source Materials License SUA-1534 North Trend Expansion Area Technical Report Volume I".



**CROW BUTTE  
RESOURCES, INC.**

141 Union Blvd., Suite 330 Lakewood, CO 80228



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**\$0.410**  
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