



**CAMECO RESOURCES**

Corporate Office  
2020 Carey Avenue  
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Cheyenne, WY  
82001 USA

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August 12, 2010

Mr. Larry Camper, Director  
Decommissioning and Uranium Recovery Licensing Directorate  
Division of Waste Management and Environmental Protection  
Office of Federal and State Materials and Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
Two White Flint North, Mail Stop T8F5  
11545 Rockville Pike  
Rockville MD 20852-2738

RE: Request for License Renewal  
Smith Ranch-Highland Uranium Project  
Source Materials License SUA-1548

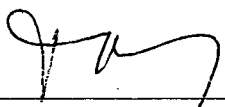
Dear Mr. Camper:

Power Resources, Inc. d/b/a Cameco Resources (CR) is hereby submitting this request for renewal of Source Materials License SUA-1548.

Enclosed with this letter is a completed NRC Form 313, with additional information attached. Three (3) copies of the Smith-Ranch-Highland Uranium Project SUA-1548 License Renewal submittal, with copies of this letter are being sent separately.

If you or your staff has any questions regarding the license renewal submittal please feel free to contact me at (307) 316-7595 or John McCarthy at (307) 358-6541 (ext. 446).

Sincerely,

  
\_\_\_\_\_  
Thomas P. Young  
Vice President, Operations

cc: J. Brister, w/att      A. Kallas, SRH w/att      J. McCarthy, SRH w/att  
L. Snowwhite, w/att      File Cheyenne 4.6.4.C

FSME21

NRC FORM 313  
(3-2009)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 3/31/2012

### APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 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 [infocollects.resource@nrc.gov](mailto:infocollects.resource@nrc.gov), 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.

**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.**

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, 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

IF YOU ARE LOCATED IN:

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, MISSISSIPPI, 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  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4125

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.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER
- C. RENEWAL OF LICENSE NUMBER SUA-1548

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

**Power Resources, Inc. dba Cameco Resources**  
**2020 Carey Avenue, Suite 600**  
**Cheyenne, WY 82001**

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**Power resources, Inc. dba Cameco Resources**  
**Smith ranch-Highland Operation**  
**762 Ross Road**  
**Douglas, WY 82633**

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

**Thomas P. Young**

TELEPHONE NUMBER

**(307) 316-7595**

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.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY **2.A.(2)** AMOUNT ENCLOSED \$ **0.00**

13. CERTIFICATION. (Must be completed by applicant) 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

**Thomas P. Young, Vice President Operations**

SIGNATURE

DATE

**08/12/2010**

#### FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**APPLICATION FOR AMENDMENT**  
**SOURCE MATERIAL LICENSE SUA-1548**  
**Responses to Items 5 through 11, NRC Form 313**

Licensee: Power Resources, Inc.  
P.O. Box 1210  
Glenrock, Wyoming 82637

5. RADIOACTIVE MATERIAL:

a) Element and Mass Number:

Uranium (natural uranium, or  $U^{nat}$ ; 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 exists 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:

Power Resources, Inc. requests unlimited possession amount.

6. PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED:

The licensed material will be used as 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 9.0 of the Power Resources, Inc. "Application for Amendment of USNRC Source Materials License SUA-1548 Smith Ranch-Highland Uranium Project (SR-HUP) Volume I".

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

This information is provided in detail in Section 9.0 of the SR-HUP License Application.

9. FACILITIES AND EQUIPMENT:

This information is provided in detail in Section 3.0 of the SR-HUP License Application.

10. RADIATION SAFETY PROGRAM:

This information is provided in detail in Section 9.0 of the SR-HUP License Application.

11. WASTE MANAGEMENT:

This information is provided in detail in Section 9.0 of the SR-HUP License Application.