



April 21, 2015

ATTN: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
11545 Rockville Pike,
Rockville, MD 20852

CAMECO RESOURCES

Permitting & Licensing
550 N Poplar St. Ste. 100
Casper, WY
82601 USA

Tel: (307) 237-2128
Fax: (307) 237-2142
www.cameco.com

RE: Cameco Resources' Response to U.S. Nuclear Regulatory Commission Request for Additional Information for License Renewal of Cameco Resources Smith Ranch-Highland Uranium Project Source Materials License SUA-1548 (TAC J00635)

Dear Director:

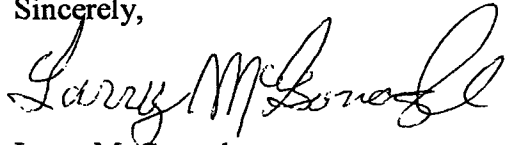
By letter dated February 1, 2012, Power Resources, Inc., doing business as Cameco Resources (Cameco), submitted to the U.S. Nuclear Regulatory Commission (NRC) a request to renew Source Materials License SUA-1548. License SUA-1548 authorizes Cameco to operate a uranium in-situ recovery (ISR) facility at its Smith Ranch-Highland Uranium Project, including its associated remote satellites at their North Butte, Gas Hills and Ruth sites.

The NRC staff completed their acceptance review on July 5, 2012. At the completion of their safety, technical and environmental reviews in April 2013, staff issued Cameco a request for additional information (RAI) on May 2, 2013. By letter dated November 18, 2014, Cameco provided responses to the environmental review (ER) RAI. Attached to this letter, Cameco is providing responses to the technical review (TR) RAI to support staffs continuing review of the license renewal application (LRA). One unbound paper copy and one PDF of the revised TR sections are being provided for your use.

Attachment 1 to this letter provides responses to each of the TR RAI comments. Attachment 2 is a sheet summarizing the replacement/insertion instructions for the enclosed revised TR sections. Attachment 3 consists of revised sections of the TR that address all aspects of the TR RAI provided in Attachment 1. Attachment 4 includes tables associated with the DEQ Permit, which are being provided with this LRA as requested. Attachment 5 consists of the Cumulative Hydrologic Impact Assessment for the North Butte Remote Satellite, which should be inserted at the end of ER Appendix E.

Cameco appreciates NRC's indulgence in allowing us this additional time to complete these TR revisions. Please advise us of any additional needs NRC staff may have as they continue their review of the LRA ER and TR.

Sincerely,



Larry McGonagle
SHEQ Division Manager
Cameco Resources

cc: Doug Mandeville, NRC Project Manager w/o Attachments
Jim Stokey, Cameco Resources w/o Attachments
Brent Berg, Cameco Resources w/o Attachments
Paul Hildenbrand, Lidstone and Associates, Inc. w/o Attachments

Attachments: As described above

Enclosure: Electronic copy of revised TR sections

Cc: SHEQ