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**CAMECO RESOURCES
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Delivery via FedEx

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

Attn: Deputy Director
Division of Decommissioning, Uranium Recovery and Waste Programs
U.S. Nuclear Regulatory Commission
11545 Rockville Pike, Mail Stop T-8F5
Rockville, MD 20852-2738

**RE: SUBMITTAL OF THE CUMULATIVE HYDROLOGIC IMPACT ASSESSMENT
NORTH BUTTE FLOW RATE INCREASE, CAMECO SMTITH RANCH
HIGHLAND URANIUM PROJECT, SOURCE MATERIAL LICENSE SUA-1548
(TAC NO. L00783)**

Director:

Power Resources Inc., doing business as Cameco Resources (Cameco) submitted a request to the U.S. Nuclear Regulatory Commission (NRC) to amend Source Materials License SUA-1548 to increase the flow at the North Butte remote satellite plant from 15,140 Liters Per Minute (L/min)(4,000 gallons per minute (gpm)) to 22,710 L/min (6000 gpm). (ADAMS Accession No. ML15132A085)

Upon reviewing the submittal, NRC staff identified several items that required further clarification. A Request for Additional Information (RAI's) was sent to Cameco on January 19, 2016 so that NRC

staff could complete the review of the flow increase for the North Butte remote satellite plant (ML16012A088).

Cameco Resources submitted the responses to the RAI's on Feb 19, 2016. NRC staff requested some additional information in order to complete the assessment of the RAI's which included questions on the hydrologic impact the increased flow for the operation would have on the production aquifer.

Included with this letter is a copy of the cumulative hydrologic impact report for the upcoming North Butte/Brown Ranch License Amendment to the Smith Ranch-Highland Source Material License SUA-1548. The cumulative hydrologic impact report should provide the information required by NRC to complete the review of the North Butte Flow Increase Amendment.

If you have further questions or need additional information, please contact Mike Thomas at the Cameco Resources Casper, Wyoming office at telephone (307) 333-7665 or email Mike_Thomas@cameco.com.

Sincerely,



Mike Thomas
Director-Safety, Health, Environment, and Quality

MT/mt

cc: Deputy Director, Division of Decommissioning, Uranium Recovery, and Waste Programs
Cameco Smith Ranch-Highland
Cameco-Casper, North Butte

Enclosures: CD containing "*Cumulative Hydrologic Impact Assessment; Cameco Resources North Butte-Brown Ranch Amendment Area; Campbell County, Wyoming*" Revised May, 18, 2015