



**CAMECO RESOURCES**  
**Permitting & Licensing**

550 N Poplar St.  
Suite 100  
Casper, WY 82601

November 11, 2015

Tel: (307) 237-2128

Fax: (307) 237-2142

[www.cameco.com](http://www.cameco.com)

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**

**RE: REQUEST FOR ADDITIONAL INFORMATION: AIRBORNE EFFLUENT AND ENVIRONMENTAL MONITORING PROGRAM FOR THE SMITH RANCH-HIGHLAND URANIUM IN SITU RECOVERY FACILITY; CONVERSE, JOHNSON, CAMPBELL AND NATRONA COUNTIES, WYOMING; LICENSE SUA-1548 (TAC J00635)**

Document Control Desk:

With this letter Cameco Resources is submitting a schedule to respond to Request for Additional Information (RAI) 45 on the airborne effluent and environmental monitoring program for the Smith Ranch-Highland Uranium Facility (SRH). NRC requested this schedule in August 7, 2015 correspondence (ML 15190A391).

As part of the ongoing license renewal efforts for Cameco Resources' SRH and Crow Butte Resources (CBR) mines, NRC requested additional information from both mine properties on compliance with 10 CFR 20.1301 and 10 CFR 20.1302 (March 14, 2014 letter). Cameco proposed language to be inserted in the SRH license renewal to address NRC's compliance concerns with the public dose limits (June 24, 2014 correspondence: ML14178A063). On April 21, 2015 (ML15147A440), Cameco submitted responses to RAIs on the Technical Report for the SRH SUA 1548 license renewal, including the language proposed in June 2014 correspondence.

In an August 7, 2015 letter, NRC accepted Cameco's response to RAI 45 for detailed technical review but stated that RAI 45 will be addressed as a separate action from the rest of the Technical Report RAIs. The separate action on RAI 45 included additional RAIs (1-5) for RAI 45. NRC requested that Cameco respond to the additional questions or submit a schedule for response within

30 days. On September 11, 2015, Cameco requested a 60-day extension for further responses to RAI 45.

Cameco is proposing a schedule (below) to answer NRC's questions on RAI 45. The approach to answering RAI 45 is based on the multi-year iterative process used to resolve the same dose-to-public question for the CBR license. Because of experience developed at CBR through the implementation of sampling and monitoring plans, we anticipate that development and implementation of a similar radon monitoring plan at SRH will take less time. However, SRH is a much larger property with additional complexities.

Developing the Radon Monitoring Plan at SRH also will be an iterative process because, as stated above, the property is much larger than Crow Butte, and the sampling program will have to be tailored to the site. Cameco Resources' steps to answer the NRC's RAIs will include:

1. Review all CBR dose-to-public responses, and determine the requirements for implementation at SRH. This information is needed to answer RAIs (1, 5, and 6).
2. Identify location for isotopic analysis in the Central Processing Plant and an existing satellite plant. This is needed to answer RAI (5).
3. Inventory all discharge points for all of the Central Plant and all of the operating satellite plants. This information is needed to answer RAI (1).
4. Based on CBR responses, review SRH operational data to determine the location of and how to implement wellfield data measurements. This information is needed to answer RAIs (2, 3, and 5).
5. Review site meteorological data to determine appropriate placement of required sensors. This information is needed to answer RAI (6).

Cameco plans to complete the above steps by the end of second quarter of 2016. At that time, Cameco will submit detailed answers to the NRC's questions about RAI 45.

If you have further questions or need additional information, please contact Larry Reimann at the Cameco Resources Casper, Wyoming office at telephone (307) 333-7640 or email [Lawrence\\_Reimann@cameco.com](mailto:Lawrence_Reimann@cameco.com).

Sincerely,



Larry Reimann  
**Manager Tech Services and SHEQ**

LJR/ljr

cc: Cameco Smith Ranch-Highland  
Cameco-Casper