



CAMECO RESOURCES
Smith Ranch-Highland
Operation
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March 21, 2014

CERTIFIED MAIL# 7013 1090 0001 7751 1517

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Robin Jones, District 1 Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
Herschler Building
122 West 25th Street
Cheyenne, WY 82002

**Release of solutions, Written Notification
Cameco Resources, Highland Uranium Project, Permit 633**

Dear Mr. Jones:

In accordance with Wyoming Department of Environmental Quality (WDEQ) regulation and the NRC License SUA 1548, Power Resources, Inc. d/b/a Cameco Resources (Cameco) notified Ms. Pam Rothwell of Wyoming Department of Environmental Quality, Land Quality Division (LQD) via voicemail, and also by voicemail, Mr. Doug Mandeville, Nuclear Regulatory Commission (NRC), on March 16, 2014, that a release of mining fluid occurred at Smith Ranch-Highland Uranium Project in Converse County, Wyoming. A verbal notification was conducted with Mr. Joe Hunter of Wyoming Department of Environmental Quality, Emergency Spill Response Coordinator on March 16, 2014. The release was recorded in the WDEQ Report a Spill or Release online database, Incident Id: 140318-141316.

A release estimated at 8916 gallons of injection fluid occurred in an area near Well ID II-011 on Permit 633 at approximately 5:00 pm on March 16, 2014. A hose was not connected to the well head which resulted in the release. The 8916 gallons that was released flowed in a northeasterly direction across relatively flat ground, and from there it traveled a short distance northward to a draw where it came to a stop. A sample of the water was taken; the uranium content was at 1.0 ppm. Upon discovery by an operator, the release was shut down.

The perimeter of the release was mapped using a hand held GPS device. A partial scan of the area south of the fenceline was conducted for μ R readings. Three points were scanned in the release area and one point was scanned away from the release area for a background reading. The readings were:

Background: 14 μ R
Scan Point 1: 32 μ R

FSMEZO

Scan Point 2: 14µR

Scan Point 3: 14µR

These scan points are shown on the attached map. Soil samples were taken at each sample point and will be submitted for analytical testing. Further scans of the northern area will be conducted along with soil samples.

The released solution is not considered hazardous material under RCRA and is not reportable under SARA; the area is not considered hazardous. The release constitutes 11e2 Material as defined by the NRC "...tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content.", and is therefore regulated under the NRC. The release will be assessed at the time of decommissioning according NRC rules and regulations.

The release was located in the NE ¼ of the SW ¼ in Section 24, T36N, R73W, of Converse County, Wyoming. A field map is attached showing approximate location of the release, and a vicinity map showing regional topography. The release will be updated into the site base map for inclusion in the Annual Report.

Please contact me at 307-358-6541, ext. 476 or Kenneth_Garoutte@cameco.com if you have questions.

Respectfully,



Ken Garoutte
Manager of Safety, Health, Environment and Quality (SHEQ)

KG/nsb

Attachments: Location Map
 Regional Topography Map

cc: File SR 4.3.3.1
 Special Volume: Wellfield Release, Spill Reports
 Mr. Doug Mandeville, NRC Certified Mail # 7013 1090 0001 7751 1531
 Document Control Desk, NRC Certified Mail # 7013 1090 0001 7751 1548
 Mr. Joe Hunter – WDEQ Certified Mail # 7013 1090 0001 7751 1555

ec: Cameco Resources-Cheyenne

03/16/2014
 EXTENT OF RELEASE
 EST. AREA=57,491 SQFT

Background

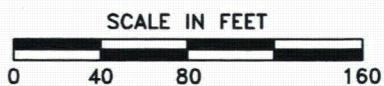
RELEASE

12/13/2006

HHH I-1

IMUMP
 IMO

- o1 INITIAL SCAN POINT
- CONTOUR INTERVAL = 10'
- ▨ RELEASE
- ▭ PATTERN
- FENCE



REVISIONS		
NO.	DATE	BY

CAMECO
 CAMECO Resources
 SMITH RANCH - HIGHLAND
 OPERATION
 P.O. Box 1210
 Glenrock, WY 83037 Telephone (307) 358-6541

**MINE UNIT I
 RELEASE 3/16/2014
 II-011 WELL**

FIG. NO.: _____ DWG. NO.: _____ CURRENT REV: **0**

PAPER SIZE: ANSI B (11.00 X 17.00 INCHES)

ENGINEERING \NICK\SBASEMAP.DWG

TOPOGRAPHICAL
 CONTOUR INTERVAL

