Cameco

CAMECO RESOURCES
Smith Ranch-Highland Operation
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February 13, 2009

Mr. Lowell Spackman, District 1 Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
Herschler Building
122 West 25th Street
Cheyenne, WY 82002

RE: Permit to Mine No. 633, Release of Solutions Report

Dear Mr. Spackman:

As reported to Ms. Pam Rothwell of Wyoming Department of Environmental Quality, Land Quality Division (WDEQ/LQD), Mr. Doug Mandeville, Nuclear Regulatory Commission (NRC), and Laura Asberry, WDEQ, Water Quality Division (WDEQ/WQD), on February 9, 2009, Power Resources, Inc. d/b/a Cameco Resources (CR) had a release of production solutions at the Smith Ranch-Highland Uranium Project in Converse County, Wyoming. Approximately 14,600 gallons were released from a valve station in Wellfield 2. Approximately 3,800 gallons was recovered and disposed of via deep disposal well. A solution sample was collected upon discovery of the release and analysis showed 7 ppm U_3O_8. Soil samples have been collected and a gamma survey of the release area has been conducted using a MicroR meter and recorded on the spill map in µR/hr. The valve station is located in the SE SE of Section 26, T.36N., R.74W, Converse County, Wyoming. A field map is included in this package.

The leak was detected at approximately 8:30 am on February 9, 2009 by a Wellfield Operator. A 16" steel tee on the main pipeline between Satellite SR 1 and the Central Processing Plant was discovered leaking due to corrosion. The fluid is not considered hazardous material under RCRA and is not reportable under SARA.

CR's Spill Committee meets bi-monthly and as needed to discuss preventive measures to minimize the potential of releases from Smith Ranch-Highland Operations and to assess and make recommendations to potentially mitigate re-occurrences. The Spill Committee met to discuss this spill and corrective actions. CR already had a list of this type of valve station prioritized based on risk of a leak. The details from this spill will be used to refine that list and implement repairs as necessary.

Please call me at (307) 358-6541 ext. 462 if you have questions.

Sincerely,

Krista Wenzel
Manager, Environment, Health and Safety

Attachment: Map

cc: Doug Mandeville – NRC Project Manager (2-copies) T. Cannon
M. Bryson File SR 4.3.3.1 File SR 4.6.4.4
S. Bakken D. Kolkman B. Johnson
S. Miller B. Kluchewski Joe Hunter – Water Quality Division

HOUSE 2-5

MS-202

MD-202

MP-204

2P-20 2P-22 2P-25 2P-29 2P-23 2P-26 2P-21 2P-39 2P-40

2I-47 2I-48 2I-36 2I-42 2I-33 2I-37 2I-43 2I-39 2I-34 2I-38 2I-52 2I-55 2I-56 2I-60 2I-67 2I-77 2I-81 2I-61 2I-68 2I-62

12μR 14μR 16μR 18μR 22μR

H H 2

950 FEET

SAMPLE POINT #5
18μR

SAMPLE POINT #4
18μR

SAMPLE POINT #3
18μR

SAMPLE POINT #2
22μR

SAMPLE POINT #1
14μR

SAMPLE POINT #6
BACKGROUND
12μR

AREA OF SPILL
= 39,136 SQFT.

TRUNKLINE #1

M-204

M-205

M-206

5525

5550

SAMPLE POINT
SCAN LOCATION
MONITOR WELL
MINE UNIT 2
MONITOR RING
PIPELINE
OXYGEN LINE
SPILL
PATTERN
FENCE

SCALE IN FEET
0 50 100 200

N

REVISIONS		
NO.	DATE	BY

CAMECO

Cameco Resources
SMITH RANCH - HIGHLAND
OPERATION
P.O. Box 1210
Glenrock, WY 82637 Telephone: (307) 358-6541

MINE UNIT 2
02-09-09 SPILL LOCATION

FSCM NO: DWG NO: CURRENT REV

PAPER SIZE: 11X17

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