



CAMECO RESOURCES
Smith Ranch-Highland
Operation
Mail:
P.O. Box 1210
Glenrock, WY
82637 USA

April 28, 2009

Mr. Lowell Spackman, District I Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
122 W. 25th Street
Cheyenne, WY 82002

Tel: (307) 358-6541
Fax: (307) 358-4533
www.cameco.com

RE: Permit to Mine 633, License SUA-1548, Docket 40-8964, East Storage Pond
Leak and Corrective Actions

Dear Mr. Spackman:

Power Resources, Inc. d/b/a Cameco Resources (CR) is herein reporting a leak in the East Storage Pond at the Smith Ranch Facility. Following confirmation results, the leak was reported to Ms. Pam Rothwell of the Land Quality Division, Wyoming Department of Environmental Quality and Mr. Doug Mandeville, Nuclear Regulatory Commission Project Manager, on April 23, 2009.

The leak was discovered after the replacement of the stationary dock with a pre-fabricated floating platform. A hole in the liner was noticed after installation and confirmed with sump sampling. The pond fluid level was lowered below the observed hole and repairs are planned for this week.

Initial and Confirming Sample Results

Sample E. Sump	U ₃ O ₈ (ppm)	Chloride (g/L)	Bicarb (g/L)	Sulfate (g/L)	Conductivity (mS/cm)
4/22/09	510	1.07	1.18	2.35	5.01
4/22/09	468	0.95	1.10	2.38	5.14

If you have questions, please contact me at (307) 358-6541, Ext. 462.

Sincerely,

Krista Wenzel
Manager, Environment, Health and Safety

cc: T. Cannon
File HUP 4.3.3.1

S. Bakken
D. Mandeville, USNRC (2 copies)

M. Bryson