

September 27, 2011

Sent via FEDEX

Attn: Document Control Desk
U.S. Nuclear Regulatory Commission
Mr. Keith I. McConnell, Deputy Director
Decommissioning & Uranium Recovery Licensing Directorate
Division of Waste Management & Environmental Protection
Office of Federal and State Materials &
Environmental Management Programs
11545 Rockville Pike
Rockville, MD 20852-2738

**Subject: License SUA-1341, Docket No. 40-8502
Willow Creek Project
September 23, 2011 Injection Fluid Spill
Mine Unit 7-5 Module Building**

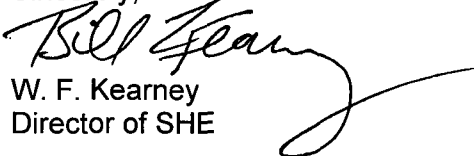
Dear Mr. McConnell:

In accordance with License Conditions 12.2 and 9.2 of the referenced license, this correspondence serves as the written notification for a spill of injection fluid at the Mine Unit 7-5 Module Building that occurred on September 23, 2011. The spill was reported to the NRC Project Manager and Region IV personnel on September 23, 2011.

The details of the spill are included on the attached Spill Report Summary along with a map of the location. Note that there were no impacts to the public, environment, wildlife or livestock.

Please contact me should you have any questions regarding this report.

Sincerely,


W. F. Kearney
Director of SHE

cc: Larry Arbogast Tim McCullough Pablo Avila
NRC File; Spill Reports

Uranium One Americas, Inc. - Willow Creek Project
Spill Report Summary
MU 7-5 Module Building Injection Fluid Release

Date and Estimated Time (beginning & end)

From: September 23, 2011 (7:00 am)

To: September 23, 2011 (7:30 am)

Location

East side of Module 7-5 Building in Mine Unit 7

Section 9, Township 44N, Range 76W

Mine Unit 7 Well Field

Campbell County, Wyoming

(see attached map for detailed location)

Spill Type

Injection fluid

Estimated Volume Released

Spilled: 4,000 gallons of injection fluid were released from the injection booster pump 1" wire port. 2,000 gallons were contained inside the building containment and removed with a vacuum truck and 2,000 gallons were released through the roof injection pump hatch and onto the adjacent ground to the east of the building.

Estimated Volume Recovered

The 2,000 gallons that were removed from the building were pumped back into the system.

Spill Analysis Results

A sample of the released fluid was obtained on September 23, 2011 and submitted to the Willow Creek on site lab for analysis. The results were as follows:

Chloride	35.2 mg/L	Uranium	0.87 mg/L
Conductivity	3240 umhos/cm	pH	6.8 su
Alkalinity	1445 mg/L		

Impacts

The release followed site drainage and remained within the fenced area of the well field. It is estimated that 1,300 square feet of soil was impacted. No wildlife or livestock were affected. No significant erosion resulted from the spill as it all which soaked into the ground.

Soil Surveys & Analysis Results

Due to the limited extent of the release, no soil samples were obtained for analysis.

Remediation Actions

Due to the limited extent of the release, no remediation is anticipated at this time.

Explanation of the Root Cause

A faulty electrical wire fitting on the injection booster pump discharge began leaking and burst, releasing water toward the ceiling in the building. The injection booster pump is located just below a roof hatch in the building. Due to its location, water was able to flow out through the hatch and onto the adjacent ground to the east of the building. It is estimated that half of the water released was contained in the building, while the other half was released to the outside.

Corrective Actions

A leak detection system is in place in the building and it functioned properly as it notified the operators of the spill in the building.

An underlying cover will be placed on the inside of the roof hatch that will deflect any similar leaks in the future and keep them 100% contained inside the building and containment.

Agency Reporting

WDEQ: Glenn Mooney - Permit Coordinator; September 23, 2011 (email)
Joe Hunter – Spill Coordinator; September 23, 2011 (e-mail)

NRC: Blair Spitzberg- Region IV Branch Chief; September 23, 2011 (email)
Ron Linton - Project Manager; September 23, 2011 (e-mail)
Linda Gersey – Health Physicist, Region IV; September 23, 2011 (email)

Map of Spill Location and Impacted Area

Attached

