



June 19, 2013

Sent via Overnight Mail

Attn: Document Control Desk
U.S. Nuclear Regulatory Commission
Mr. Drew Persinko, 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
June 15, 2013
8S218-1 Injection Well Release
Christensen Ranch Mine Unit 8**

Dear Mr. Persinko:

In accordance with License Conditions 12.2 and 9.2 of the referenced license, this correspondence serves as the written notification for a release of ISR injection fluid Mine Unit 8 wellfield area at Willow Creek (Christensen Ranch) located in Johnson County. The spill occurred on June 15, 2013. The release was reported via email to the NRC Project Manager, Region IV personnel and WDEQ on June 17, 2013.

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 significant impacts to the public, environment, wildlife or livestock.

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

Sincerely,

Tim McCullough
Manager Site SHE

cc: Jon Winter
Larry Arbogast
Barry Koch
Rick Kukura
NRC File; Spill Reports

Uranium One USA, Inc. - Willow Creek Project
Spill Report Summary
Mine Unit 8 ISR Injection Fluid Release

Date and Estimated Time (beginning & end)

From: June 15, 2013 (06:50 pm)

To: June 15, 2013 (10:30 pm)

Location

Christensen Ranch Mine Unit 8

Injection Well 8S218-1

Module 8-4/5

Section 25, Township 45N, Range 77W

Johnson County, Wyoming

(See attached map for detailed location)

Spill Type

ISR injection fluid

Estimated Volume Released

Spilled: Approximately 1,400 gallons of ISR injection fluid was released from Injection Well 8S218-1 when a glue joint associated with a 5" pvc coupler and the 5" pvc well casing failed. The injection well is located on a bench above a cut bank at the head of a small dry ephemeral draw that is a tributary to ephemeral Willow Creek in the 8-4/5 Wellfield. The failed joint was located at ground level just beneath the well box.

Estimated Volume Recovered

All of the released fluid quickly soaked into the dry soil, so it was not possible to recover any of it.

Spill Analysis Results

A small volume of the released fluid was obtained on June 15, 2013 and submitted to the Willow Creek on site lab for analysis. The results were as follows:

Uranium 0.8 ppm

Impacts

The release followed site drainage for approximately 200 feet and migrated down the adjacent ephemeral draw approximately 500 feet (see map). It is estimated that 1,900 square feet (0.04 acre) of soil was impacted. No wildlife or livestock were affected. No significant erosion resulted from the spill, as it all 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 5" pvc well casing extension connected by a 5" pvc coupler failed at the glue joint on Injection Well 8S218-1, which was located just below ground level.

Corrective Actions

The well was immediately shut off and repaired.

Agency Reporting

WDEQ: Luke McMahan - Permit Coordinator; June 17, 2013 (e-mail)
Joe Hunter – Spill Coordinator; June 17, 2013 (e-mail)

NRC: Blair Spitzberg- Region IV Branch Chief; June 17, 2013 (e-mail)
Ron Linton - Project Manager; June 17, 2013 (e-mail)
Linda Gersey – Health Physicist, Region IV; June 17, 2013 (e-mail)

Map of Spill Location and Impacted Area

Attached

The location and extent of the spill is recorded in the on-site historical spill file.

