



May 15, 2014

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
April 19, 2014
10209 Injection Well Release
Christensen Ranch Mine Unit 10A**

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 at the Mine Unit 10A wellfield area at Willow Creek (Christensen Ranch) located in Johnson County. The spill occurred on April 19, 2014. The release was reported via email to the NRC Project Manager, Region IV personnel and WDEQ on April 22, 2014.

The details of the release 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 HSE

cc: Jon Winter
Ryan Schierman
Barry Koch
Rick Kukura
NRC File; Spill Reports

FSME 21

Uranium One USA, Inc. - Willow Creek Project
Spill Report Summary
Mine Unit 10A ISR Injection Fluid Release

Date and Estimated Time (beginning & end)

From: April 19, 2014 (05:35 am - estimated)

To: April 19, 2014 (0738 am)

Location

Christensen Ranch Mine Unit 10A

Injection Well 10209

Module 10-1

Section 1, Township 44N, Range 77W

Johnson County, Wyoming

(See attached map for detailed location)

Release Type

ISR injection fluid

Estimated Volume Released

Released: Approximately 616 gallons of ISR injection fluid was released from Injection Well 10209-1 when an air relief valve (ARV) opened up to relieve pressure and a small piece of poly shaving became lodged between the float and the seat and did not allow ARV vent to close. The injection well is located in a relatively flat area in the north east corner of the 10-1 Wellfield. The leak detect associated with the injection well failed to alarm due to a tool impeding its operation.

Estimated Volume Recovered

No fluid was recovered as the release quickly soaked into the soil.

Analysis Results of the Released Fluid

A small volume of the released fluid was obtained from the well box on April 19, 2014 and submitted to the Willow Creek on site lab for analysis. The results were as follows:

Uranium 0.32 ppm

Impacts

The release followed site drainage for approximately 450 feet down a small ephemeral draw before dissipating (see map). It is estimated that approximately 1,962 square feet (0.05 acre) of soil was impacted. No wildlife or livestock were affected. No significant erosion resulted from the release.

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

An ARV opened up to relieve pressure at the well head and a small piece of poly shaving became lodged between the float and the valve seat not allowing the float to close. Additionally the associated leak detect device did not go into an audible alarm as a tool was left on the device not allowing float to not operate properly.

Corrective Actions

The well was immediately shut off and the ARV was replaced. The tool preventing the leak detect device was removed and the leak detect device was tested prior to returning the well to operational status.

Agency Reporting

WDEQ: Luke McMahan - Permit Coordinator; April 21, 2014 (e-mail)
Joe Hunter – Spill Coordinator; April 21, 2014 (e-mail)

NRC: Blair Spitzberg- Region IV Branch Chief; April 22, 2014 (e-mail)
Ron Linton - Project Manager; April 22, 2014 (e-mail)
Linda Gersey – Health Physicist, Region IV; April 22, 2014 (e-mail)

Map of Spill Location and Impacted Area

Attached

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



10MW-5

10MW-6

10MW-7

10MW-8

Injection Well 10209

Modular Building 10-1

157 ft

Uranium One
Willow Creek Project
Mine Unit 10A
Injection Well 10209 Release
April 19, 2014
(Note: to increase visibility spill area is not to scale)

Google earth