October 23, 2012

Mr. Jon F. Winter
Manager, Wyoming Environmental
and Regulatory Affairs
Uranium One
907 North Poplar Street
Suite 260
Casper, WY 82601

SUBJECT: TECHNICAL EVALUATION REPORT, REVIEW OF RESTORATION REPORT
FOR MINE UNITS 2 THROUGH 6 OF THE CHRISTENSEN RANCH SATELLITE
FACILITY, URANIUM ONE WILLOW CREEK IN SITU RECOVERY PROJECT,
JOHNSON AND CAMPBELL COUNTIES, WYOMING (TAC NO. J00563)

Dear Mr. Winter:

By letter dated April 8, 2008, Cogema Mining, Inc., (Cogema) submitted to the U.S. Nuclear
Regulatory Commission (NRC) the Wellfield Restoration Report, Christensen Ranch Project,
dated March 5, 2008. The report summarized the groundwater restoration results for Mine Units
(MU) 2 through 6 at Cogema’s Christensen Ranch Project. On December 30, 2009, Cogema
responded to NRC’s request for additional information with additional information related to
mine unit restoration. Subsequent to the report’s submittal, the licensee for the Willow Creek
Project changed to Uranium One USA, Inc. (Uranium One). The Christensen Ranch Project is a
satellite of the Willow Creek Project.

The NRC staff has reviewed the report and is not approving the restoration in Mine Units (MU) 2
through 6 as requested by Cogema. The staff basis for this determination is documented in the
enclosed Technical Evaluation Report. The following information or demonstration of
restoration is required before restoration can be approved:

MU-2 North

(1) Demonstrate that the statistically significant increasing (SSI) trends for
uranium and radium-226 at well 2T92-2 are reversed and stable.
(2) Provide a confirmatory analysis of the groundwater quality at well
2MW108 subsequent to the corrective actions for the 2011 excursion
that demonstrates impacts to the aquifer following the 2011 excursion
event meet regulatory requirements (groundwater protection criteria).

MU-2 South

(1) Demonstrate that the impacts to the overlying and production aquifers
between MU2 South and MU3 meet regulatory requirements.
(2) Demonstrate that the SSI trend noted in the uranium concentrations at
well 2AF34-1 is reversed and stable.
MU-3 without Expansion

(1) Confirm that the well 3D12-2 used in the restoration, but not in the baseline, was needed to replace a well that has been abandoned.
(2) Demonstrate that the elevated conductivity noted in the 2009 sampling event does not result in levels of all constituents of concern in wells 3T37-2 and 3T27-2 above the applicable standards.
(3) Demonstrate that the SSI trend noted in the uranium concentrations at well 3V58-2 is reversed and stable.

MU-3 with Expansion (Module 4A)

(1) Provide a statistical evaluation of the restoration data including rationale for outliers and stability analyses.
(2) Demonstrate that the SSI trend in uranium and radium-226 in wells 3W75-1 and 3Z87-1 is reversed and stable.

MU-4

(1) Demonstrate that the restoration effort results in parameter levels approaching asymptotic trends using best practicable technology (BPT).
(2) Provide confirmatory analyses on the uranium concentrations at monitoring well 4MW-15 that demonstrate the levels are within regulatory requirements (groundwater protection criteria).
(3) Adequately characterize the impacts to the aquifer in the vicinity of 4MW-1 and that those impacts are within regulatory requirements (groundwater protection criteria).
(4) Demonstrate stability of contaminant concentrations by showing no SSI trends during the stability monitoring period once the restoration goals are achieved.

MU-5

(1) Demonstrate that the restoration effort is consistent with BPT and results in levels that exhibit an asymptotic trend especially for module 5-5.
(2) Characterize the impacts to the aquifer in the vicinity of perimeter well 5MW-66 and that the impacts meet the regulatory requirements (groundwater protection criteria).
(3) Complete restoration at Module 5-2 that is now in production.

MU-6

(1) Provide the staff with data used to define baseline.
(2) Demonstrate that the restoration effort is consistent with BPT and results in levels that exhibit an asymptotic trend.
The NRC staff requests that within 3 months of receipt of this letter, Uranium One develop a restoration plan for MU-2 through 6 and submit it to the NRC for review.

If you have any questions, please contact me at Ron.Linton@nrc.gov or (301) 415-7777.

In accordance with 10 CFR 2.390 of the “NRC Rules of Practice for Domestic Licensing Proceedings and Issuance of Orders,” a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC’s ADAMS. ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html.

Sincerely,

/RA/

Ron C. Linton, Project Manager
Uranium Recovery Licensing Branch
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal State Materials and Environmental Management Programs

Docket No.: 04008502
License No.: SUA-1341

Enclosure: Technical Evaluation Report

cc: Mark Rogaczewski (WDEQ)
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Ron C. Linton, Project Manager
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Enclosure: Technical Evaluation Report

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