

September 19, 2017

Ms. Teanna Limpy  
Tribal Historic Preservation Officer  
Northern Cheyenne Tribe  
P.O. Box 128  
Lame Deer, MT 59043-0128

SUBJECT: TRANSMITTAL OF INFORMATION RELATED TO THE SECTION 106  
CONSULTATION FOR THE PROPOSED LUDEMAN IN SITU URANIUM  
RECOVERY SATELLITE PROJECT IN CONVERSE COUNTY, WYOMING  
(DOCKET NUMBER 40-8502)

Dear Ms. Limpy:

By letter dated August 8, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff first initiated the National Historic Preservation Act (NHPA) Section 106 consultation concerning the Uranium One, Inc. (Uranium One) proposed Ludeman in situ uranium recovery (ISR) project in Converse County, Wyoming. Uranium One is seeking to amend its source materials license SUA-1341 to construct and operate an ISR satellite facility. The facility, if licensed, will use an ISR technology to extract uranium from underground ore deposits and collect it on ion exchange resins. Uranium from ion exchange resins at the proposed Ludeman satellite facility will be transported and subsequently processed at the Willow Creek Central Processing Plant located in Johnson County, Wyoming. This letter describes NRC's efforts to define the area(s) of potential effect (APE) and identify historic properties for Ludeman. Additionally, NRC is requesting your Tribe's ideas and views regarding historic and cultural resources pertaining to the Ludeman Project.

As defined in Title 36 of the *Code of Federal Regulations* Paragraph 800.15(d), the APEs are the geographic areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties. The NRC staff has delineated a direct and an indirect APE that may be affected by the construction, operation, decommissioning, and restoration activities associated with the proposed Ludeman project. The direct APE is comprised of the area that may be directly affected by physical ground disturbance and construction of wellfields. A map of the direct APE is provided in Enclosure 1. Enclosure 2 is a map showing previously identified cultural resources within the Ludeman project area. Within the direct APE, 2,200 acres would be disturbed by proposed project activities.

The indirect APE is comprised of the area within 2 miles of the Ludeman project boundary where potential visual and audible effects, or other potential effects that may be associated with an increase in human activity near the project area, could potentially impact previously documented historic properties.

The NRC staff is now in the process of identifying historic properties within the proposed Ludeman APE. The NRC staff is transmitting information to you and seeking your comments as it continues with its consultation activities under Section 106 of the NHPA. The Class III Cultural Resource Inventory Report (Enclosure 3) is enclosed for your review and consideration. Please note that the enclosed documents contain confidential information, and disclosure is limited under the NHPA.

As part of our environmental review, the NRC staff is interested in learning of any areas that may have traditional, religious, or cultural significance to your Tribe that could potentially be affected by the proposed action. The NRC staff requests that you provide, within 30 days of receipt of this letter, your ideas and views regarding historic and cultural resources pertaining to the Ludeman Project.

In accordance with Title 10 of the *Code of Federal Regulations* Section 2.390 of the NRC's "Agency Rules of Practice and Procedure," 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 the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>. However, enclosures contained in this letter are considered official use only and will be withheld from public inspection.

If you have any questions or need any additional information on the proposed Ludeman ISR Satellite Project, please contact the environmental Project Manager, Ms. Ashley Waldron. Ms. Waldron can be reached at (301) 415-7317 or via e-mail at: [Ashley.Waldron@nrc.gov](mailto:Ashley.Waldron@nrc.gov).

Sincerely,

**/RA/**

Cintha I. Román, Chief  
Environmental Review Branch  
Division of Fuel Cycle Safety, Safeguards,  
and Environmental Review  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 40-8502  
License No. SUA-1341

Enclosures:

1. Direct APE map
2. Cultural resources location map
3. Class III Cultural Resource Inventory

cc w/o encls.:  
Mr. Llevando Fisher, Chairman

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DATED: September 19, 2017

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