



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

September 12, 2016

MEMORANDUM TO: Matthew R. Meyer, Acting Chief  
Materials Decommissioning Branch  
Division of Decommissioning, Uranium Recovery,  
and Waste Programs  
Office of Nuclear Material Safety and Safeguards

FROM: Dominick A. Orlando, Senior Project Manager */RA/*  
Materials Decommissioning Branch  
Division of Decommissioning, Uranium Recovery,  
and Waste Programs  
Office of Nuclear Material Safety and Safeguards

SUBJECT: MEETING SUMMARY – TECHNICAL MEETING TO DISCUSS THE  
DECOMMISSIONING OF THE WESTERN NUCLEAR  
INCORPORATED SITE IN JEFFREY CITY, WYOMING  
(Docket 040-01162)

On August 11, 2016, staff of the U.S. Nuclear Regulatory Commission (NRC) held a meeting and teleconference with representatives of Western Nuclear Incorporated (WNI) at NRC headquarters in Rockville, Maryland. The purpose of the meeting was to discuss an approach to resolving the issues associated with exceedances of the Alternate Concentration Limits for nitrate at the Split Rock site. The meeting was observed by staff from the Wyoming Department of Environmental Quality and Navarro, Inc., the Legacy Management contractor for the U.S. Department of Energy (DOE). The meeting was noticed on the NRC's Public Meeting webpage on July 28, 2016. The meeting attendee list is enclosed.

CONTACT: Dominick Orlando, NMSS/MDB  
415-6749

Under this approach, WNI would expand the current proposed Long-term Care Boundary (LTCB) for the site to the Sweetwater River. This would establish a new Point of Exposure (POE) at the river, rather than the existing POE, which is now at the edge of the current proposed LTCB. WNI would then demonstrate that the nitrate would be diluted by the river to levels that would be considered safe, using a conservative estimate of nitrate (such as the maximum seen in any well at the site). However, in order for this approach to resolve the issues with the ACLs, the groundwater plume containing the nitrate must remain on property that is owned or controlled by WNI.

**ACTION ITEMS:**

WNI

1. Determine what the predicted flow path of the nitrate is from the existing LTCB to the Sweetwater River
2. Determine if WNI owns the property or groundwater rights along this predicted flow path

NRC

1. Contact the DOE and determine when they are available to begin discussing the transfer of the site to the DOE
2. When WNI has completed the action items above convene another meeting to discuss the results of WNI's evaluations

Docket No. 040-01162

License No. SUA-56

Enclosure:

Meeting Attendee List

Under this approach, WNI would expand the current proposed Long-term Care Boundary (LTCB) for the site to the Sweetwater River. This would establish a new Point of Exposure (POE) at the river, rather than the existing POE, which is now at the edge of the current proposed LTCB. WNI would then demonstrate that the nitrate would be diluted by the river to levels that would be considered safe, using a conservative estimate of nitrate (such as the maximum seen in any well at the site). However, in order for this approach to resolve the issues with the ACLs, the groundwater plume containing the nitrate must remain on property that is owned or controlled by WNI.

**ACTION ITEMS:**

WNI

1. Determine what the predicted flow path of the nitrate is from the existing LTCB to the Sweetwater River
2. Determine if WNI owns the property or groundwater rights along this predicted flow path

NRC

1. Contact the DOE and determine when they are available to begin discussing the transfer of the site to the DOE
2. When WNI has completed the action items above convene another meeting to discuss the results of WNI's evaluations

Docket No. 040-01162

License No. SUA-56

Enclosure:  
Meeting Attendee List

DISTRIBUTION:

R. Evans, RIV                      J. Whitten, RIV                      A. Gendelman, OGC                      DUWP r/f

**ADAMS Accession No.:**                      **ML16236A030**

|                |            |            |            |            |
|----------------|------------|------------|------------|------------|
| <b>OFFICE:</b> | DUWP       | DUWP       | DUWP       | DUWP       |
| <b>NAME:</b>   | D. Orlando | C. Holston | M. Meyer   | D. Orlando |
| <b>DATE:</b>   | 08/ 23 /16 | 08/ 23 /16 | 08/ 31 /16 | 09/ 12 /16 |

**OFFICAL RECORD COPY**

**WESTERN NUCLEAR INCOPORATED MEETING/TELECONFERENCE ATTENDEE LIST  
AUGUST 11, 2016**

**U.S. Nuclear Regulatory Commission**

Matthew Meyer, MDB/DUWP/NMSS  
Dominick Orlando, MDB/DUWP/NMSS  
Adam Gendleman, OGC  
Robert Evans, Region IV

**Western Nuclear Incorporated (WNI)**

Harley Shaver  
Toby Wright  
Christopher Pugsley  
Anthony Thompson  
Lawrence Corte  
Louis Miller

**Wyoming Department of Environmental Quality**

Don Fischer

**Navarro, Inc. (contractor to the Department of Energy)**

Steve Hall  
Laura Commins  
Rich Zinkel