



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

November 29, 2017

MEMORANDUM TO: Jacob I. Zimmerman, Chief
Enrichment and Conversion Branch
Division of Fuel Cycle Safety, Safeguards,
and Environmental Review
Office of Nuclear Material Safety
and Safeguards

FROM: Yawar H. Faraz, Senior Project Manager **/RA/**
Enrichment and Conversion Branch
Division of Fuel Cycle Safety, Safeguards,
and Environmental Review
Office of Nuclear Material Safety
and Safeguards

SUBJECT: CENTRUS ENERGY CORPORATION: SUMMARY OF MEETING
TO DISCUSS RESULT OF THE U.S. NUCLEAR REGULATORY
COMMISSION'S ACCEPTANCE REVIEW OF LEAD CASCADE
FACILITY DECOMMISSIONING PLAN AMENDMENT APPLICATION

DATE OF MEETING: October 30, 2017

MEETING LOCATION: U.S. Nuclear Regulatory Commission Headquarter
11555 Rockville Pike
Rockville, MD 20852-2738

PURPOSE:

Discuss the request for supplemental information (RSI) contained in U.S. Nuclear Regulatory Commission's (NRC's) acceptance review letter dated October 11, 2017 (Agencywide Documents Access and Management System [ADAMS] Accession Number ML17262A075).

ATTENDEES:

USNRC – Steve Koenick, Amy Snyder, Jake Zimmerman, Yawar Faraz, James Smith, Adam Schwartzman, Kenneth Kline, Cinthya Román, James Park, Jean Trefethen, Michael Kunowski, Matthew Learn, and Keith Everly.

CONTACT: Yawar Faraz, FCSE/ECB
(301) 415-7220

Centrus Energy Corporation (Centrus) – Steve Toelle, Kelly Wiehle, James Thompson, David Fosson, Rob Jacobs, Mario Robles, Mark Keef, Vanessa Burkitt, and Ted Coulter.

Public - Shannon Dettmar (Ohio Department of Health).

SUMMARY:

Centrus began by informing the NRC that it intends to withdraw its Decommissioning Plan (DP) amendment request for its Lead Cascade Facility (LCF) dated March 1, 2017 (ADAMS Accession No. ML17067A183) and resubmit a new DP amendment request that will be easier for the NRC staff to review. Centrus then provided an update on the decommissioning progress made at the facility. According to Centrus, disassembly of the LCF was complete and that only a few waste shipments for offsite disposal were remaining. These would be completed by the end of November 2017.

Centrus then distributed its draft responses to each of the seven review areas identified in the NRC's RSI. Each review area was discussed as summarized below. Centrus took back its RSI draft responses at the end of the meeting. The meeting agenda is contained in NRC's meeting notice (ADAMS Accession No. ML17292B702) issued ten days prior to the meeting.

Environmental Review

Centrus indicated that the NRC staff had already conducted an environmental assessment (EA) for transporting the LCF equipment and materials offsite. Since the only remaining operation would be the characterization, cleanup and final status survey of the facility, Centrus believed that a categorical exclusion (CatEx) per the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Section 51.22 should apply. The NRC staff stated that Centrus can propose for NRC's consideration that a specific CatEx should apply, but that Centrus should also provide all environmental information associated with the remaining decommissioning activities to support NRC's preparation of an EA, if warranted.

Centrus also agreed to provide NRC with copies of its correspondence with the Ohio State Historic Preservation Office and of its correspondence with State agencies regarding threatened and endangered species.

Characterization

Centrus indicated that it had previously identified two Class I areas totaling about nine square meters with some fixed contamination likely caused from previous spills during LCF operations. The rest of the operating and storage areas associated with the LCF were identified as Class II areas. While areas outside the LCF operating and storage areas, such as Centrus offices, were identified as Class III areas. Centrus said that it intends to provide more detailed characterization information to support final status survey area classification.

Final Status Survey Plan

According to Centrus, it plans to survey the drains and ventilation ducts which serviced the LCF operational areas. However, the building ceilings will not be surveyed because the building air concentration levels, while the LCF was operating, were less than 0.1 percent of the 10 CFR Part 20 derived air concentrations. Centrus indicated that soil sampling was conducted outside the buildings which housed the LCF until the year 2005 to establish the commercial plant baseline. No elevated levels were detected.

Dose Assessment

Discussions with Centrus focused on issues such as low as reasonably achievable and future uses of the facility. Centrus explained its current approach of using conservative analyses in order to meet its proposed cleanup goals. Since Centrus' plan is to eventually turn the site over to the U.S. Department of Energy (DOE), discussions also included future use scenarios (i.e., restricted vs. unrestricted) and how far into the future the doses should be evaluated.

Decommissioning Activities

Centrus said that it intends to provide a checklist following NUREG-1757 guidance. Centrus indicated that it will generally describe in the DP decommissioning activities that were already conducted. Also, Centrus said it will clearly describe in the DP those activities that it is proposing and that require NRC approval. Centrus stated that it would include a description of potential cross contamination activities and controls in the DP. Finally, Centrus said that it would not discuss documents or programs that were not applicable to the DP. The NRC staff indicated Centrus should also review its current license and identify in its DP submittal those license conditions that will no longer apply upon approval of the DP.

Financial Assurance

Centrus indicated its Decommissioning Funding Plan (DFP) will demonstrate that either the DOE is contractually taking ownership of inventory which is still onsite or Centrus will include reasonable costs for third-party contractors to perform loading, transporting and acceptance by an end destination for the material in the decommissioning cost estimate (DCE). Additionally, the DFP will demonstrate that the DOE is contractually responsible for long-term security of the site or Centrus will include reasonable costs for a third-party contractor to perform long-term security of the site in the DCE.

Decommissioning Schedule

After the meeting, by letter dated November 8, 2017 (ADAMS Accession No. ML17324A264), Centrus withdrew its DP and indicated that it will submit the DP amendment request by December 15, 2017. According to Centrus, it anticipates completing its final status survey of the LCF by the end of December 2017, at the risk of using derived concentration guideline levels that are yet to be approved by the NRC.

Docket No.: 70-7003

License No.: SNM-7003

SUBJECT: CENTRUS ENERGY CORPORATION: SUMMARY OF MEETING TO DISCUSS RESULT OF THE U.S. NUCLEAR REGULATORY COMMISSION'S ACCEPTANCE REVIEW OF LEAD CASCADE FACILITY DECOMMISSIONING PLAN AMENDMENT APPLICATION

DATED: November 29, 2017

DISTRIBUTION: NMSS r/f FCSE r/f FFLD r/f PMNS NRC Attendees
 CErlanger, NMSS KEverly, NSIR KKline, NMSS
 LPitts, RII DParsons, NSIR NSt.Amour, OGC
 LClark, OGC MSykes, RII CLipa,RIII
 JBielecki, OGC JTappert, NMSS BSmith, NMSS
 MLearn, RIII MKunowski, RIII JSmith, NMSS
 JTrefethen, NMSS JPark, NMSS ASchwartzman, NM
 AKock, NMSS MWoods, OGC

Adams Accession Number: ML17321A081 *via E-mail

OFFICE	FCSE/ECB	FCSE/ERB	FCSE/ERB
NAME	YFaraz	AWalker-Smith	*CRomán
DATE	11/16/17	11/21/17	11/22/17
OFFICE	DUWP/PAB	DUMP/MDB	FCSE/ECB
NAME	*CMcKenney	J. Smith for- SKoenick	JZimmerman
DATE	11/22/17	11/22/17	11/29/17

OFFICIAL RECORD COPY