



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

June 9, 2023

MEMORANDUM TO: Shaun M. Anderson, Branch Chief  
Reactor Decommissioning Branch  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

FROM: Tanya E. Hood, Project Manager  
Reactor Decommissioning Branch  
Division of Decommissioning, Uranium Recovery  
and Waste Programs  
Office of Nuclear Material Safety  
and Safeguards

A handwritten signature in blue ink that reads "Tanya E. Hood".

Signed by Hood, Tanya  
on 06/09/23

SUBJECT: SUMMARY OF MAY 2, 2023, PUBLIC MEETING TO DISCUSS  
DECOMMISSIONING LESSONS LEARNED WITH INDUSTRY  
DECOMMISSIONING LICENSEES

On May 2, 2023, a hybrid public meeting was held at the U.S. Nuclear Regulatory Commission (NRC) with industry decommissioning licensees to discuss decommissioning lessons learned from past and recent decommissioning projects. The objective of the meeting was to share good practices and lessons learned to improve the overall decommissioning process in transitioning from operations to decommissioning to license termination. In this public meeting, presentations were made by NRC staff, Nuclear Energy Institute (NEI), and Accelerated Decommissioning Partners (ADP).

The meeting notice and agenda, posted March 30, 2023, are available in the Agencywide Documents Access and Management System (ADAMS) at Accession No. [ML23089A171](#) and are posted on the NRC's public Web page at <http://www.nrc.gov/reading-rm/adams.html>. The presentation material provided by the licensee are available on the [meeting notice](#). Persons who do not have access to ADAMS or who encounter problems in accessing the meeting materials located in ADAMS should contact the NRC Public Document Room reference staff by telephone at 1-800-397-4209 or by email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov).

During the meeting, the NRC staff provided three presentations: (1) NRC Perspectives on Decommissioning Lessons Learned, (2) Lessons Learned: Environmental Review of post-shutdown decommissioning activities reports (PSDARs) and License Termination Plans (LTPs), (3) Lessons Learned: Decommissioning Funding Assurance.

CONTACT: Tanya Hood, NMSS/DUWP  
301-415-1387

Industry licensees shared good practices about how recycling of clean metal and other materials reduces waste disposal costs and provide revenues to offset costs. Insight was shared about storing waste indoors or in containment tents instead of outdoors to minimize the spread of the radioactivity from the elements. As well as, using a sacrificial soil layer on top of clean soil to serve as a buffer layer for helping to collect contamination during demolition activities. This has been used with varied success but generally helps to prevent contamination of clean surfaces below the work surface.

Industry licensees shared that maintaining control and isolation of cutting operations that may generate chips or swarf is the best method to prevent the spread of the small particles. Using large or custom packages for low level waste may reduce the number of shipments and save costs. Using the "tuna can" approach by filling the reactor vessel with grout and cutting it into slices, rather than shipping it as one large component was also cost effective. Large components and low-level waste have been successfully transported by barge to the disposal site. Maine Yankee Nuclear Power Plant and Trojan Nuclear Plant reactor vessels were successfully transported by barge. With regard to rail lines, they need to be safety inspected frequently to ensure tracks and ties are maintained. This may be extended beyond the licensee's property.

Industry shared experiences with using 3-D modeling of reactor internals to maximize the low-level waste shipped offsite and minimizing the greater than Class C (GTCC) waste to be stored onsite and in the independent spent fuel storage installation (ISFSI) was impactful. Polychlorinated Biphenyls (PCBs) were sometimes used to seal concrete structures along with using flushable filters to minimize filter waste. The use of robots to decontaminate and cleanup sediments in large underwater structures with difficult access was a key element. Securing large components that are segmented need to be secured to ensure they do not fall over and remain stable until packaged.

There were several areas for improvement noted by the NRC staff and industry licensees. Industry licensees expressed the need to clarify questions on requests for additional information (RAIs). There was a desire to have more joint reviews of LTPs by NRC Headquarter staff and Region Inspectors. Have more consistent quality products for LTPs and final status survey records to enhance efficiency for licensees and NRC staff.

Participants providing presentations and discussions were thanked for their candid discussions and sharing of information. It was recommended that there should be more lessons learned meetings in the future. The public was offered the opportunity to provide comments. No regulatory decisions were made during the meeting.

Approximately 84 representatives from industry, state government, and NRC participated in the meeting. A list of the meeting attendees is enclosed. Members of the public were invited to attend. One person provided comments that emphasized planning for decommissioning projects such as Three Mile Island Unit 2. No public meeting feedback forms were received. Please direct any inquiries to me at (301) 415-1387 or [Tanya.Hood@nrc.gov](mailto:Tanya.Hood@nrc.gov).

Enclosure:  
List of Attendees

SUBJECT: SUMMARY OF MAY 2, 2023, PUBLIC MEETING TO DISCUSS  
DECOMMISSIONING LESSONS LEARNED WITH INDUSTRY  
DECOMMISSIONING LICENSEES DATED:

DISTRIBUTION:

Public  
RidsOpaMail Resource  
BWatson, NMSS  
AdeJesus, OEDO

**ADAMS Accession No. ML23160A134 \*Concurred via email**

OFFICE	NMSS/DUWP/RDB/PM	NMSS/DUWP/SA	NMSS/DUWP/RDB/BC	NMSS/DUWP/RDB/PM
NAME	THood	BWatson	SAnderson	THood
DATE	06/02/2023	06/05/2023	06/05/2023	06/05/2023

**OFFICIAL RECORD COPY**

LIST OF ATTENDEES

MAY 2, 2023, DECOMMISSIONING LESSONS LEARNED

PUBLIC MEETING WORKSHOP

WITH INDUSTRY DECOMMISSIONING LICENSEES

<b>Name</b>	<b>Organization</b>
Boby Abu-Eid	U.S. Nuclear Regulatory Commission (NRC)
George Alexander	NRC
Shaun Anderson	NRC
Briana Arlene	NRC
Katie Barnes	NRC
Cynthia Barr	NRC
Tim Barvitskie	NRC
Louis Caponi	NRC
Luis Cruz Rosado	NRC
Gregory Chapman	NRC
Christian Dennes	NRC
Suzanne Dennis	NRC
Lisa Dimmick	NRC
Marlayna Doell	NRC
Richard Drill	NRC
David Esh	NRC
Randall Fedors	NRC
Gehan Flanders	NRC
Jeremy Groom	NRC
Stephen Hammann	NRC
Shawn Harwell	NRC
Kevin Hayes	NRC
David Hills	NRC
Tanya Hood	NRC
Arlette Howard	NRC
Stacey Imboden	NRC
Bill Lin	NRC
Marilyn Diaz Maldonado	NRC
Jane Marshall	NRC
Nancy Martinez	NRC
Fred Miller	NRC
Charles Murray	NRC
Leah Parks	NRC
Jack Parrott	NRC
Karen Pinkston	NRC
Jason Reed	NRC
Christianne Ridge	NRC
Kathryn Robertson-DeMers	NRC

Adam Schwartzman	NRC
Neil Sheehan	NRC
Amy Snyder	NRC
Karl Sturzebecher	NRC
Robert Sun	NRC
Emil Tabakov	NRC
Bill Von Till	NRC
Ashley Waldron	NRC
Greg Warnick	NRC
Katherine Warner	NRC
Bruce Watson	NRC
Jean Fleming	Nuclear Energy Institute (NEI)
Rodney McCullum	NEI
Bruce Montgomery	NEI
Bradly J McMahan	Dominion Energy
Dan J Shannon	Dominion Energy
Al Bates	Energy Solutions
John Sauger	Energy Solutions
Justin Wheat	Energy Solutions
Marshall Blake	Holtec
Jeff Dostal	Holtec
Gordon Madison	Holtec
Edward Sanchez	Holtec
Corey Daniels	Northstar
John Jernigan	Northstar
Tom Silko	Northstar
Holly Van-Sicklen	Orano
William Wilde	Orano
Andrea K Barker	Public
Roger Bauman	Public
Jana Bergman	Public
William H. Barley	Public
Mike Callahan	Public
Kelly Daughenbaugh	Public
Phyllis Dixon	Public
John Egdorf	Public
Grant W. Eskelsen	Public
Ed Everett	Public
Lori Glander	Public
Tim Gregoire	Public
Veena Gubbi	Public
Amy Hackett	Public
Jerry Humphreys	Public
Rich Janati	Public
Jess Joyce	Public
Michael Keegan	Public

Dan Leone	Public
Thomas Magette	Public
Lisa Matis	Public
Matthew J. Marzano	Public
Richard McGrath	Public
Kris Rowberry	Public
Chad Samples	Public
Timothy Smith	Public
Tim Uehling	Public
Bryan Werner	Public
Jennifer Wood	Public
Jonathan Zeitz	Public