

# 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

SUBJECT: SUMMARY OF MAY 2, 2023, PUBLIC MEETING TO DISCUSS

DECOMMISSIONING LESSONS LEARNED WITH INDUSTRY

Signed by Hood, Tanya on 06/09/23

**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. <a href="ML23089A171">ML23089A171</a> and are posted on the NRC's public Web page at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a>. The presentation material provided by the licensee are available on the <a href="meeting notice">meeting notice</a>. 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 <a href="meeting-pdf">PDR.Resource@nrc.gov</a>.

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.

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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 <a href="mailto:ranya.hood@nrc.gov">Tanya.hood@nrc.gov</a>.

Enclosure: List of Attendees SUBJECT: SUMMARY OF MAY 2, 2023, PUBLIC MEETING TO DISCUSS

DECOMMISSIONING LESSONS LEARNED WITH INDUSTRY

DECOMMISSIONING LICENSEES DATED:

#### **DISTRIBUTION**:

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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

Name	Organization
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

Neil Sheehan	Adam Schwartzman	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           Bruce Watson         NRC           Jean Fleming         Nuclear Energy Institute (NEI)           Rodney McCullum         NEI           Bruce Montgomery         NEI           Bruce Montgomery         NEI           Bradly J McMahon         Dominion Energy           Dan J Shannon         Dominion Energy           Al Bates         Energy Solutions           John Sauger         Energy Solutions           John Sauger         Energy Solutions           Justin Wheat         Energy Solutions           Marshall Blake         Holtec           Gordon Madison         Holtec           Edward Sanchez         Holtec           Corey Daniels         Northstar           John Jernigan         Northstar           Tom Silko         Northstar           Holly Van-Sicklen         Orano           William Wilde         Orano	Neil Sheehan	
Robert Sun	Amy Snyder	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 McMahon         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           William Wilde         Orano           William Wilde         Orano           William H. Barley         Public           William H. Barley         Public	Karl Sturzebecher	NRC
Bill Von Till	Robert Sun	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 McMahon Dominion Energy Dan J Shannon Dominion Energy Solutions John Sauger Energy Solutions John Sauger Energy Solutions Justin Wheat Energy Solutions Justin Wheat Holtec Gordon Madison Holtec Gordon Madison Holtec Edward Sanchez Holtec Corey Daniels John Jernigan 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 Grant W. Eskelsen Public Grant W. Eskelsen Public For Holte Pu	Emil Tabakov	NRC
Greg Warnick Katherine Warner NRC Bruce Watson NRC Jean Fleming Nuclear Energy Institute (NEI) Rodney McCullum NEI Bruce Montgomery NEI Bradly J McMahon Dominion Energy NaI Bates Energy Solutions John Sauger Justin Wheat Marshall Blake Holtec Gordon Madison Holtec Edward Sanchez Corey Daniels John Jernigan Northstar Northstar Tom Silko Northstar Holly Van-Sicklen William Wilde Andrea K Barker Roger Bauman Public William H. Barley William H. Barley Phyllis Dixon Public Grant W. Eskelsen Ed Edward Sanchez Public Roger Baubal Public Grant W. Eskelsen Public Grant W. Eskelsen Public Amy Hackett Public Amy Hackett Public Amy Hackett Public Amy Hackett Public Public Amy Hackett Public Amy Hackett Public Pu	Bill Von Till	NRC
Katherine Warner  Bruce Watson  NRC  Bruce Watson  NRC  Jean Fleming  Nuclear Energy Institute (NEI)  Rodney McCullum  NEI  Bruce Montgomery  NEI  Bruce Montgomery  NEI  Bradly J McMahon  Dominion Energy  Dan J Shannon  Dominion Energy  Al Bates  Energy Solutions  John Sauger  Justin Wheat  Energy Solutions  Marshall Blake  Holtec  Gordon Madison  Holtec  Edward Sanchez  Holtec  Corey Daniels  Northstar  John Jernigan  Northstar  Holly Van-Sicklen  William Wilde  Andrea K Barker  Roger Bauman  Public  William H. Barley  Public  Mike Callahan  Kelly Daughenbaugh  Public  Forant W. Eskelsen  Public  Forant W. Eskelsen  Public  Forang Holte  Public  Foranger Gardon  Public  Forant W. Eskelsen  Public  Forant W. Eskelsen  Public  Fore Gardon  Public  Public  Forant W. Eskelsen  Public  Forant W. Eskelsen  Public  Foranger Gardon  Public  Forant W. Eskelsen  Public  Forant M. Eskelsen	Ashley Waldron	NRC
Bruce Watson  Jean Fleming  Nuclear Energy Institute (NEI)  Rodney McCullum  Ruce Montgomery  NEI  Bradly J McMahon  Dominion Energy  Al Bates  Energy Solutions  John Sauger  Energy Solutions  Justin Wheat  Energy Solutions  Marshall Blake  Holtec  Gordon Madison  Edward Sanchez  Corey Daniels  John Jernigan  Tom Silko  Northstar  Holly Van-Sicklen  William Wilde  Andrea K Barker  Roger Bauman  Jana Bergman  Public  William H. Barley  Mike Callahan  Kelly Daughenbaugh  Public  Grant W. Eskelsen  Edward Sanche  Public  Farant W. Eskelsen  Public  Farant W. Eskelsen  Public  Public  Public  Farant W. Eskelsen  Public  Public  Farant W. Eskelsen  Public  Public  Public  Public  Public  Farant W. Eskelsen  Public  Public  Public  Public  Public  Public  Public  Public  Farant W. Eskelsen  Public  Pu	Greg Warnick	NRC
Jean Fleming Nuclear Energy Institute (NEI)  Rodney McCullum NEI  Bruce Montgomery NEI  Bradly J McMahon Dominion Energy Dan J Shannon Dominion Energy Al Bates Energy Solutions John Sauger Energy Solutions Justin Wheat Energy Solutions Justin Wheat Holtec Jeff Dostal Holtec Gordon Madison Holtec Edward Sanchez Holtec Corey Daniels Northstar John Jernigan Northstar Tom Silko Northstar Holly Van-Sicklen Orano Andrea K Barker Public Roger Bauman Public Jana Bergman Public Mike Callahan Public Mike Callahan Public Felic Forant Mike Selection Public Grant W. Eskelsen Public Felic Forant Mike Selection Public Find Grant W. Eskelsen Public Felic Forant M. Eskelsen Public Felic Forant M. Eskelsen Public Felic Forant M. Eskelsen Public Firm Gregoire Public Forant W. Eskelsen Public Forant M. Eskelsen Public Fora	Katherine Warner	NRC
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Dan Leone	Public
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