



Strategic Programmatic Overview Of the Decommissioning and Low-Level Waste and Spent Fuel Storage and Transportation Business Lines

Commission Meeting
October 11, 2018





Deputy Executive Director for Materials, Waste, Research, State, Tribal, Compliance, Administration and Human Capital Programs

Daniel Dorman

NRC Panel will Address the Following Topics:

- Licensing and Oversight Successes and Challenges
- Current Uranium Recovery and Decommissioning Environment
- Current Low-Level Waste Environment
- Decommissioning Inspection Program



Office of Nuclear Material Safety and Safeguards

Marc Dapas, Director

Ensuring Safety for a Broad Range of Activities

- Preparing for increased number of reactors in decommissioning
- Working effectively with DOE regarding Waste Incidental to Reprocessing (WIR) activities
- Responding to changes in the Low-Level Waste Program
- Implementing Commission direction on the 10 CFR Part 61 rulemaking and follow on activities

Further Enhancing the Effectiveness of Licensing Processes

- Leveraging best licensing practices
- Completion of major licensing actions
- Ensuring equitable and transparent fees for all fee classes – Uranium Recovery

Realizing Success Through Internal and External Interaction

- Transitioned uranium recovery licensees to Wyoming
- Continuing international engagement to share experience and learn from others
- Near completion of the Non-Military Radium Program



Division of Decommissioning, Uranium Recovery, and Waste Programs

John Tappert, Director

Successfully Operating in a Dynamic Environment

- Ensuring resources and organizational structure are consistent with anticipated workload
- Transitioning to a new decommissioning model for power reactors
- Evaluating decommissioning beyond the 60-year timeframe

Continued Progress to Enhance Effectiveness and Efficiency

- Extended renewal period to align with risk and enhance efficiency
- Completed independent assessment of uranium recovery licensing practices
- Improved performance in meeting licensing timeliness metrics

Safe and Effective Decommissioning

- Effective decommissioning of licensed sites
 - Hematite
 - Centrus Lead Cascade
 - State University of New York Buffalo
- Progress at our most challenging sites
 - American Nuclear Corporation
 - FMRI



Engaging a Broad Range of Stakeholders

- Coordinating with the National Park Service on response action involving radioactive material
- Coordinating with the Environmental Protection Agency on Radium Remediation
- Holding public meetings to discuss technical issues regarding Greater-Than-Class C and Very Low-Level Waste



Division of Decommissioning, Uranium Recovery, and Waste Programs Risk and Technical Analysis Branch

Chris McKenney, Chief

Enhancing National Low-Level Waste Framework

- Actively updating our regulations and guidance
- Risk informing regulatory approaches in the Low-Level Waste and WIR Programs



Risk Informing 10 CFR Part 61

- Revising regulations on near surface land disposal
 - Risk Informing the regulations
 - Addressing new waste types
 - Establishing performance based requirements considering site-specific factors
- Implementing Commission direction with respect to Part 61 proposed rule



Evaluating Greater-Than-Class C (GTCC) Waste Disposal

- Developing a regulatory basis
- Analyzing whether disposal presents such a hazard that the NRC should retain regulatory authority
- Evaluating whether GTCC can be disposed in the near surface
- Risk-informing the approach to disposal of GTCC waste

Evaluating Greater-Than-Class C (GTCC) Waste Disposal (cont'd)

- Outreaching to stakeholders to identify the various technical issues
- Coordinating with the Department of Energy
- Planning to issue a draft regulatory basis shortly after publishing the supplemental proposed Part 61 rule
- Finalize regulatory basis within 6 months thereafter

Effectively Implementing Waste Incidental to Reprocessing Responsibilities

- DOE consultation with the NRC on waste determinations is required under the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005
- Evaluating whether waste that is incidental to reprocessing can be managed differently than high-level waste

Monitoring DOE Disposal Activities in a Risk-Informed Manner



Savannah River Site's
Saltstone Disposal
Facility

Responding to Changing National LLW Environment

- Working on a Very-Low-Level Waste Scoping Study
 - Anticipating increase in the amount of LLW
 - Soliciting stakeholder feedback
 - Preparing Commission paper including stakeholder inputs and perspectives





Region I

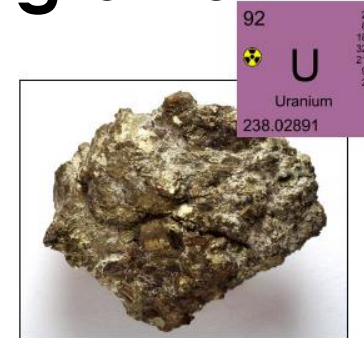
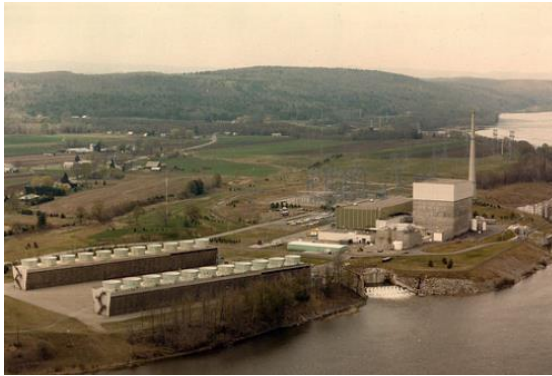
Division of Nuclear Materials Safety

Jim Trapp, Director

Ensuring Safety and Security During Power Reactor Decommissioning



Efficient Oversight Programs



A piece of natural uranium ore



Our Oversight of Licensee Performance Has a Positive Impact on Safety



Providing Independent Assessment During All Phases of Material Decommissioning

2003



2015



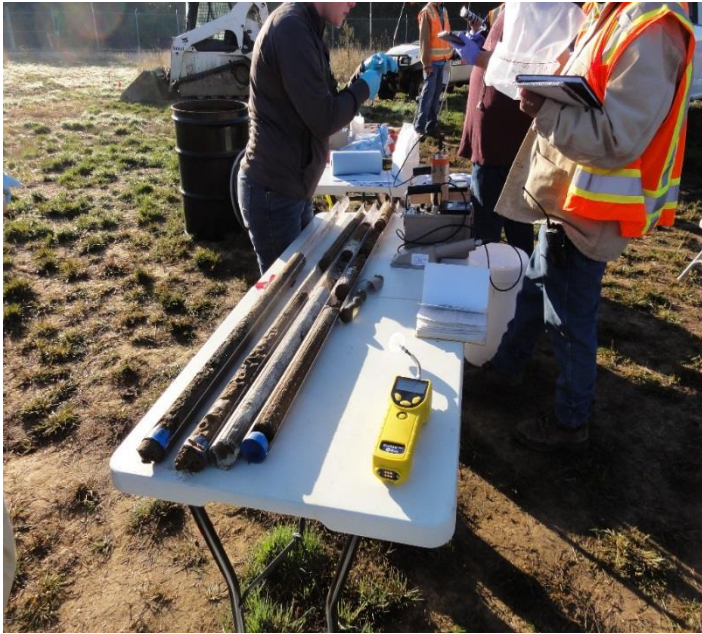
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2012



Hematite Fuel Facility

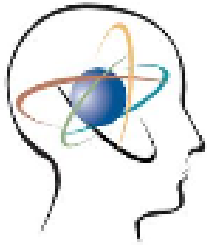


Effective Implementation of the Non-Military Radium Oversight Program



Greatest Asset: Our People





Knowledge Transfer Focus



Acronyms

- GTCC – Greater-Than-Class C
- LLW – Low-Level Waste
- VLLW – Very Low-Level Waste
- WIR - Waste Incidental to Reprocessing
- DOE – Department of Energy
- EPA – Environmental Protection Agency
- NPS – National Park Service
- MOU – Memorandum of Understanding
- SECY - Office of the Secretary