

Waste Isolation Pilot Plant Update

Thomas Johnson

Associate Deputy Assistant Manager Savannah River Operations Office

Governor's Nuclear Advisory Council Columbia, South Carolina

July 14, 2016



WIPP Progress

Path to Resumption of Waste Emplacement

- New Documented Safety Analysis
- Cold Operations
- Management Self Assessment
- Operational Readiness Reviews

Changes to the National TRU Program

- New WIPP Waste Acceptance Criteria (WAC)
- Enhanced National TRU Program Requirements



Documented Safety Analysis (DSA)

Approved April 29, 2016

- Developed under new DOE Standard 3009-2014
- Approximately 120 Safety Management Program procedures created or revised
- Implementation declared complete on May 29



Cold Operations

Cold Operations began June 1, 2016

- WIPP crews are processing and downloading empty waste containers using new DSA Rev. 5 controls
- 8 weeks for workers to practice waste handling procedures
- Regular drills conducted to test safety management procedures







WIPP Readiness Activities

Management Self Assessment

 Internal review contractor conducted by the WIPP Management & Operations contractor Nuclear Waste Partnership (NWP) to confirm operational

readiness



Operational Readiness Reviews

Contractor and DOE Operational Readiness Reviews (ORR)

 Performance-based examination of facilities, equipment, personnel and procedures

Will ensure WIPP will be operated safely – within



Return to Waste Emplacement Operations



National TRU Program Changes

New and Enhanced Federal Oversight of Contractor Activities

- Increased oversight by Carlsbad Field Office and EM/HQ
- Clearer roles and responsibilities



Enhancements to National TRU Program

New Waste Acceptance Criteria (WAC)

- WAC Revision 8 issued June 27, 2016 Effective July 5, 2016
- Includes changes resulting from findings from the Accident Investigation Board (AIB) Phase 2 report on radiological release
- Incorporate requirements from the recently approved DSA

Rev. 5 and chemical compatibility studies





Enhancements to National TRU Program

New Requirements

- Enhanced Acceptable Knowledge detailed re-review of source documentation for potentially incompatible materials and to ensure the adequate information basis
- Chemical Compatibility Evaluations identifying the range of possible chemical combinations that could occur in each waste stream using EPA approved methodology
- Basis of Knowledge for Oxidizing Chemicals Waste characterization programs must ensure
 that appropriate measures are taken to identify
 and treat waste to avoid potential effects from
 oxidizing chemicals; and

Enhancements to National TRU Program

Generator Site Technical Reviews (GSTR)

- Performed by CBFO and NWP to ensure waste packaging and treatment activities meet requirements
- Verification of generator site controls and waste information meets new enhanced WIPP WAC compliance



 Beginning July 5, 2016 TRU waste generator site programs temporarily suspended certification of TRU waste, pending GSTR and Recertification reviews necessary to validate compliance with the revised WIPP WAC

