



**U.S. Department of Energy  
Environmental Management Los Alamos Field Office  
Legacy Cleanup Completion Project**

**DOE National Cleanup Workshop**

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**ENVIRONMENTAL MANAGEMENT**  
SAFETY ♦ PERFORMANCE ♦ CLEANUP ♦ CLOSURE

# Los Alamos TRU Waste Program Status

- ❑ **Processing of Legacy TRU has been suspended since May 2014**
  
- ❑ **Operations in TA-54, Area G currently limited pending additional safety analyses**
  
- ❑ **EM and NNSA Field Offices collaborating closely on waste management and safety oversight matters**
  
- ❑ **DOE Accident Investigation Board/WIPP Event Phase 2**
  - EM-LA and NA-LA reviewed conclusions and Judgments of Need (JONs) from the AIB Report of the February 2014 incident at WIPP
  - 22 JONs related or directed to LANL to:
    - Address systemic issues
    - Improve requirements definition
    - Implement improvements
    - Ensure compliance and improve oversight



# Safely Managing Nitrate Salts

## ❑ Implementing NMED-Approved Isolation Plan

- Over-packed storage in Permacon
- Regular monitoring

## ❑ Temperature Control

- Implemented supplemental cooling as compensatory measure

## ❑ Planning for Future Treatment of Waste

- Integrating all scientific, safety, regulatory and project activities over the next two years



Over-packed RNS drums in the Permacon within Dome 375



# Regulatory Considerations

- ❑ **Administrative Compliance Order (December 2014)**
  - Technical teams identified required correction actions
  - In May 2015, DOE and NMED agreed on Principles of Agreement for Settlement
    - Includes Supplemental Environmental Projects in lieu of fines/penalties
  
- ❑ **Extent of Condition Completed**
  - Evaluated extent of potential regulatory non-compliances of non-nitrate salt wastes processed since 2005
  - Written disclosure provided to regulator August 31
  
- ❑ **New Mexico Environment Department personnel engaged in planning for future nitrate salt treatment**



# Corrective Action Plans

## Detailed Corrective Action Plans developed

- An integrated schedule of all EM-LA, NA-LA and LANS corrective actions tracks status of each organization's progress to completion

## Joint NNSA/EM Corrective Action Plan submitted to HQs September 15, 2015

## LANS' Corrective Action Plan submitted and under DOE review, though many actions completed or in process:

- Robust procedure development process to ensure effective SME and management review
- Formal engineering change control process
- Technical basis documents completed
- LANS hired senior QA manager

## Resumption of TRU processing conditioned on specific actions



# Looking Forward

- Developing the Technical Basis and Baseline Plan for Safe Storage and Future Treatment**
  
- Preliminary Plans developed**
  - Testing necessary for developing the technical basis for treatment (including processing variables)
  - Regulatory approvals needed
  
- Treat remediated nitrate salts to eliminate the hazards associated with incompatible materials**
  
- Treat unremediated nitrate salts**
  
- Potentially, process other above grade stored TRU**