



U.S. DEPARTMENT OF  
**ENERGY**

OFFICE OF  
**ENVIRONMENTAL  
MANAGEMENT**

# Status of Los Alamos National Laboratory TRU Program

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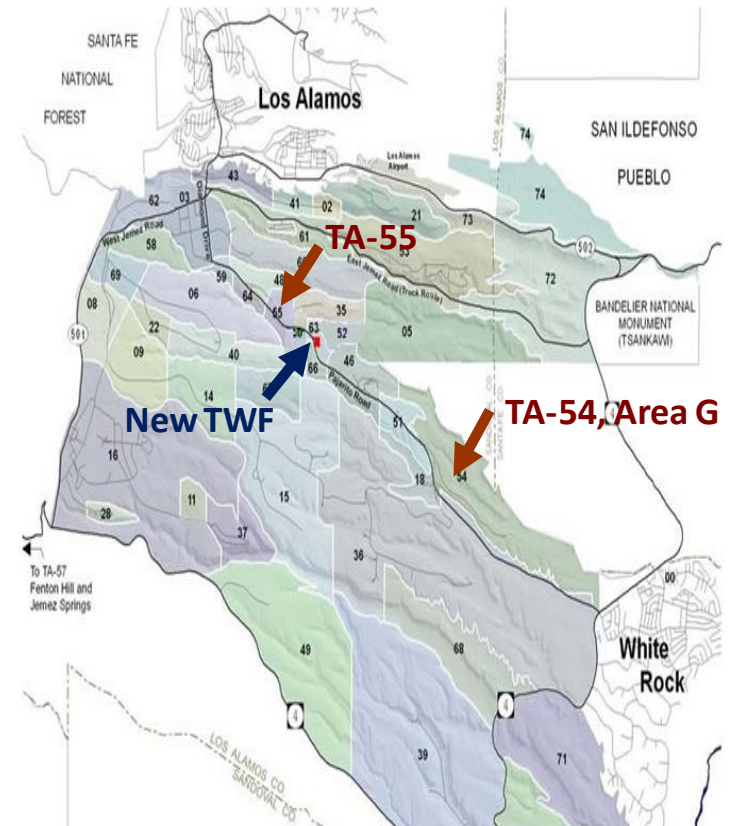
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**September 15, 2016**

- Environmental Management Is Responsible for the Cleanup and Disposition of Legacy Waste (Pre-1999)
  - Legacy waste is primarily located in Area G at Technical Area 54 (TA-54)
  - Most of the remaining legacy waste is below-grade
- National Nuclear Security Administration (NNSA) Is Responsible for Post-1999 Waste Known as Newly Generated Waste
  - Newly generated waste is generated at various NNSA facilities
  - Newly generated TRU waste is primarily in the Plutonium Facility (TA-55)
  - NNSA is the site landlord



Los Alamos National Laboratory Area Map

- Safety Basis Issues Have Resulted in Limited Operations
  - Area G Operating under Basis for Interim Operations (BIO) since June 2006
- Limited Storage Currently Available
  - Impacts to enduring NNSA missions
- Transition to EM Follow-on Contract and Re-compete of NNSA Management & Operating Contract



Area G at Technical Area 54

# Remediated Nitrate Salts Storage & Treatment

- Storage
  - Nested in either steel standard waste boxes or 85-gallon drums stored in a contamination-control structure (known as a PermaCon) with cooling
  - Extensive wildfire mitigation
  - Pressure relief devices installed
- Treatment
  - Open drums to mix with zeolite in a controlled environment
  - Facility modifications underway
  - Safety Basis revision ~October 2016
  - Declaration of readiness ~December 2016
  - Commence treatment ~February 2017



Workers install pressure relief devices



Treatment walk-through at a mock-up glove box

# Long-Term Resumption of Waste Operations

- Resolve Nuclear Safety Issues (PISAs) at Waste Management Facilities
  - Implement 3009-14 Documented Safety Analysis at Area G
- Expand Onsite Storage Capacity
  - Minimizing generation rates, optimizing current available space, and add new facility [TRU Waste Facility (TWF)]
- Remediate and Ship Above-Grade TRU (~2,000 Containers)
- Retrieve, Remediate and Ship Below-Grade TRU



Retrievable TRU waste (drums & boxes) in Pit 9