Los Alamos National Laboratory **TRU Waste Management at Area G Fact Sheet** CAMPAIGN LOCATION: PROJECT **PROJECT GOAL:** ESTIMATED Area G, which **ACTIVITIES:** Ensure NAME: **COMPLETION:** covers 63 contaminated waste Store, remediate and TRU Waste After 2028 acres, lies from past LANL ship LANL's above-Management inside Technical operations do not at Area G ground transuranic Area 54 at Los threaten human waste to the Waste Alamos National and environmental Isolation Pilot Plant Laboratory health

HISTORY

Technical Area 54 (TA-54) is Los Alamos National Laboratory's (LANL) legacy waste management area. Opened in 1957, Area G is a site within TA-54 that contains past radioactive waste disposal areas. This area includes 32 pits, 194 shafts, and four trenches with depths ranging from 10 to 65 feet below the original ground surface. Area G is now dedicated to storing, characterizing, and remediating LANL's transuranic (TRU) and low-level waste to ship it offsite for permanent disposal.

APRIL 2019 STATUS

- Above-ground waste has been inventoried
- Initiated mobile loading for shipment of waste to WIPP
- TRU waste shipments to WIPP have resumed

TRU WASTE

TRU waste is radioactive waste containing more than 100 nanocuries of alpha-emitting transuranic isotopes per gram of waste, with half-lives greater than 20 years. Transuranic elements are those greater than uranium on the Periodic Table of Elements. All TRU waste at LANL is "contacthandled," meaning it can be safely handled directly by workers using protection.

SAFETY SYSTEMS

The TRU waste containers are stored in domes equipped with fire detection and air monitoring systems. The containers are routinely monitored and inspected. TRU waste from LANL's past defenserelated activities is intended to be disposed deep underground at the Department of Energy's Waste Isolation Pilot Plant (WIPP) in southeastern New Mexico. Prior to shipment, the containers and their contents are independently, non-destructively analyzed and certified under a state- and Environmental Protection Agency-approved program to confirm that containers meet the WIPP Waste Acceptance Criteria.

SHIPPING WASTE OFFSITE

Mobile loading capabilities are fully operational at Area G, enabling TRU waste to be shipped to WIPP, weather and schedule permitting. TRU waste containers destined for WIPP—such as drums, standard waste boxes, and 10-drum overpacks—are secured inside robust shipping casks that have met strict Nuclear Regulatory Commission (NRC) requirements and testing under extreme conditions.





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OTHER ACTIVITIES

Other waste management activities at Area G unrelated to the current TRU campaign include removal and remediation of suspected TRU waste from below-grade pits, shafts, and trenches. Work at Area G also includes preparing mixed low-level waste and low-level waste for transport to offsite disposal facilities.



Waste Storage Domes at Area G

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