







# Los Alamos National Laboratory (LANL) Legacy Cleanup - Technical Area 21

**Update for Los Alamos County Council** 



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# Cleanup at Technical Area 21 (TA-21)

## Safety Basis/Deactivation & Decommissioning (D&D):

- TA-21 Documented Safety Analysis (DSA)
- Characterization and D&D of Building 257, Industrial Waste Lines, and DP West slabs

## 2016 Compliance Order on Consent (Consent Order):

- TA-21 Cleanup Campaign remaining scope
  - Investigating and remediating 2 Aggregate Areas
  - Investigating and remediating, if needed, 38 remaining Solid Waste
     Management Units (SWMUs) and Areas of Concern (AOCs)





# Cleanup at Technical Area 21 (TA-21) continued

#### **2016 Consent Order:**

- Material Disposal Areas A and T Remedy Campaigns remaining scope
  - Obtain characterization data necessary to conduct Corrective
     Measures Evaluations (CME) and prepare and submit CME Reports
  - Following NMED's issuance of Statement of Basis and selection of remedies, prepare, submit, and receive NMED approvals of the Corrective Measures Implementation Plans (CMIP)
  - Implement NMED's selected remedies; prepare, submit, and receive NMED approvals of CMI Reports
    - MDA A SWMUs/AOCs: 1 and MDA T SWMUs/AOCs: 8





# Consent Order Corrective Action Process (where CME is required)

RCRA Facility Investigation Work Plan

RCRA Facility Investigation

RCRA Facility Investigation Report Corrective Measures Evaluation (CME)

CME Report

Review CME Report

Statemen<sup>.</sup> of Basis Public Comment Period

Remedy Selection

EM-LA/N3B Activity

> NMED Activity

Corrective Measure Implementation Plan

Corrective Measure Implementation Corrective Measure Implementation Report

Certificate of Completion



ATTACHMENT A



# **Documented Safety Analysis**

- Three LANL legacy cleanup areas require a DSA
  - TA-21 (DP Site) D&D
  - Area G in Technical Area 54 (TA-54) Transuranic (TRU) Waste
     Operations
  - Nuclear Environmental Sites (NES) MDA A (General's Tanks),
     MDA T, MDA H, and MDA AB
    - Previous operations, types of waste present, and methods of disposal in the past vary among MDAs





# Purpose of a DSA

- Characterization of waste sites is necessary to safely and effectively remediate nuclear facilities
- Hazards need to be analyzed to determine impact of accidents involving hazardous material on the health/safety of workers and public, and to establish controls to mitigate potential impacts
- DOE requires that a facility has acceptable safety provisions before operations commence



## FY 2024 and FY 2025 Scheduled Work

- TA-21 DSA implementation in progress
  - Enables non-intrusive sampling of Building 257
  - Based on results, DSA will be revised to enable D&D of Building
     257 and Industrial Waste Lines
- MDA A Investigation Report
  - FY 2024 Milestone due to NMED by September 30, 2024
  - Report will include human health and ecological risk assessment
- MDA T Investigation Report
  - Current FY 2025 Target for September 30, 2025
  - Requires completion of 4 quarters of soil vapor sampling
  - Report will include human health and ecological risk assessment
- Ongoing groundwater monitoring at TA-21

