



Los Alamos National Laboratory FY 2014 – FY 2018 Environmental Management

Budget Request Summary

Presentation to
Northern New Mexico Citizen's Advisory Board

Ed Worth
DDFO
April 25, 2012



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



FY 2014 – FY 2018 Budget Request Summary

Presentation Outline

- LANL Progress to Date
- Framework Agreement Commitments
- LANL FY13 Planned Work
- LANL FY14 Budget Request
- LANL FY14 – FY18 Planned Work



Consent Order

Substantial Progress

- **2100+ original sites (approximately 1450 sites currently on LANL Permit)**
 - Approximately half of the sites are completed
 - Of the remaining sites, completed initial investigation on approximately 90%

- **26 original Material Disposal Areas (MDAs)**
 - Completed removal / cleanup on 10 (7 since 2007)
 - Completed investigation of 5 major MDAs (MDAs C, G, H, L & T)
 - Selecting remedies for MDAs G, H & L
 - Remainder in investigation phase



American Recovery and Reinvestment Act (ARRA)

Accomplishments

- **ARRA - \$212M in funding provided boost to already-planned work:**
 - Decontamination & demolition of 24 Manhattan / Cold War-era buildings
 - Reduced legacy footprint by ~175,000 square feet
 - Installation of 16 regional groundwater wells
 - MDA B Excavation
 - Early laboratory radioactive waste disposal area (1944-1948)
 - Excavated about 43,000 cubic yards of contaminated soil and debris
 - Safely removed approximately 115 PE-Ci of radioactive waste from the 6-acre site



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Framework Agreement

LANL Commitments

- Removal of non-cemented above-ground TRU currently-stored at Area G by June 2014 (3,706 m³)
- Removal of all newly generated TRU waste received in Area G during FY12/FY13, by December 2014
- Develop schedule for disposition of the below-ground TRU at Area G by December 2012
- Groundwater and surface water protection
- Storm Water Individual Permit
- Buckman Direct Diversion Project



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LANL FY 2013 Scope Based on President's Request ~\$239M

FY 2013 supports expedited de-inventory and disposal of above-ground transuranic waste. This is consistent with DOE and State of New Mexico reprioritization of Los Alamos activities to ensure the highest risk stored, combustible transuranic waste can be addressed in an expeditious manner.

➤ **Transuranic and Mixed/Low-Level Waste Disposition**

- Continue operation of new oversize modular box line and disposition of excess materials
- Continue accelerated de-inventory and disposal of mixed low-level waste/low-level waste (600 cubic meters) and of transuranic waste (1,800 cubic meters)
- Five Operating Lines plus additional Super High-Efficiency Neutron Counter

➤ **Soil and Groundwater Remediation**

- Continue protection of Ground Water and Surface Water
- Complete remediation of Townsites
- Material Disposal Area B D&D Enclosures
- Compliant with Environmental Protection Agency Individual Permit
 - Installation of Controls
- Canon de Valle
 - TA-15 and TA-16 Investigations
 - Surface and Subsurface Water Corrective Measures
- Material Disposal Area C Landfill Cover Design

Note: Without a passed budget for FY 2013, Continuing Resolution funding will be at the FY2012 appropriation level of \$188.5M.



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Los Alamos Site Office

FY 2014 – FY 2018 Budget Request

Summary

- **Budget Plan – Flat Funded at FY 2013 Request Level – No Inflation**
 - As a result of the recent wildfires in New Mexico in Summer 2011, New Mexico Governor directs higher priority removal of Transuranic (TRU) Waste stored at Los Alamos National Laboratory (LANL)
 - Budget Plan supports New Mexico Governor’s direction
 - DOE is committed to demonstrating performance with removal of TRU waste
 - The funding profile is based on a \$239M planning profile, and ensuring the prioritizing/sequencing of work as necessary to accommodate the Framework Agreement
- **Additional Initiatives**
 - Additional Cleanup at LANL can be proposed that will support a potential savings and cost avoidance and reduce the impact of identified contamination in the aquifer through the application of technologies and sound investments



Los Alamos Site Office FY 2014 – FY 2018 Budget Request

Proposed Budget Detail (\$ in thousands)

	FY 2012 Execution Plan	FY13 President's Request	FY14 Plan	FY15 Plan	FY16 Plan	FY17 Plan	FY18 Plan
Solid Waste Stabilization	90,000	120,000	103,953	90,908	96,450	116,120	96,812
Soil and Water Remediation	95,000	114,913	110,490	127,535	136,993	117,323	121,631
D&D	0	0	20,000	15,000	0	0	15,000
Agreement in Principle	3,561	4,230	4,700	5,700	5,700	5,700	5,700
Los Alamos Site Total	188,561	239,143	239,143	239,143	239,143	239,143	239,143



Los Alamos Site Office

FY 2014 – FY 2018 Budget Request

Proposed FY 2014 Scope

➤ **Transuranic and Mixed/Low-Level Waste Disposition**

- Complete accelerated de-inventory and disposal of the remaining 3706 Campaign Transuranic waste (1,106 cubic meters) by June 2014
- Continue de-inventory and disposal of any remaining NNSA Newly Generated TRU waste received in FY12 and FY13
- Finish retrieval of Trenches A-D and begin retrieval of Pit 9
- Five Operating Lines with multiple shifts and full characterization capabilities

➤ **Soil and Groundwater Remediation**

- Continue protection of Ground Water and Surface Water
 - Perform sampling in accordance with the IFGMP
- Compliant with Environmental Protection Agency Individual Permit
 - Sampling and Installation of Control Measures
- Canon de Valle
 - TA-15 and TA-16 Investigations
 - Surface and Subsurface Water Corrective Measures
- Continue Aggregate Area Investigations
- DP Site Investigation and Remediation

➤ **D&D**

- Continue TA-21 Demolition of 7 remaining facilities



Los Alamos Site Office

FY 2014 – FY 2018 Budget Request

Proposed FY 2014 – FY 2018 Scope

➤ **Planned Scope:**

- Complete 3,706 m³ above ground TRU waste campaign to meet the Framework Agreement with the State of New Mexico
- Implement disposition /closure strategy for above ground and below ground TRU waste
 - MLLW/LLW Operations and retrieval/remediation/repacking of: Pit 9 Drum, Trenches A-D, Corrugated Metal Pipes (CMPs), Container Venting, Oversized Container Processing, and address 33 Shafts
- Groundwater and storm water monitoring and controls, Cañon de Valle Capital Project investigation, remediation, and completion of groundwater and surface water corrective measures; town-site cleanup; TA-21 cleanup; various aggregate area cleanups; Threemile Canyon cleanup; Mortandad chromium project starts in 2016; and critical landfills Capital Projects (MDAs A, G, and T) would start in 2015 with assumed baseline remedies (but remedy approval may be altered by regulator)
- Demolition of buildings 21-257, two water towers, DP West slabs, and Waste Water Treatment Plant. FY 2018 baseline development of TA-54 subprojects at Areas G and L and project start in Area L
- TA-21 will be completed to support mesa cleanups well ahead of TA-54 TRU disposition completion
- Agreement in Principal with NMED for oversight, NRDA and Los Alamos Pueblo Program activities

