Los Alamos National Laboratory
Environmental Programs Overview

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Overview - Environmental Programs

Mission

- Process and ship hazardous and radioactive waste to permanent disposal facilities

- Clean up legacy waste sites and monitor and protect northern New Mexico’s water resources
Overview – Environmental Programs

Key Documents

- Order on Consent with the State of New Mexico (2005)
- Stormwater Individual Permit with the Environmental Protection Agency (2010)
- Framework Agreement with the State of New Mexico (2012)
Overview - Environmental Programs

Budget

FY13 Budget Status

- FY13 Presidential Request $239M
- FY13 Sequestration Level $173M
- Reprogramming of $40M which consists of:
  - $19M in EM funding
  - $21M in NNSA funding for newly generated TRU waste inventory/future disposition of newly generated TRU waste, both of which are generator obligations associated with DP activities
Thanks to support from the state, the congressional delegation, local officials and the community, received $40 million in reprogramming funding

- Letters from the Radioactive and Hazardous Materials Committee and the Energy and Natural Resources Committee;

- HJM 005 sponsored by Reps. Carl Trujillo and Carlos Cisneros; and

- Petition with more than 60 New Mexico legislator signatures taken to Washington.
Waste – TA-54 Overview
3706 Campaign Operational Plan

FY 12
- Single Shift Operations
- Building Capability

FY 13
- Multiple Shift Operations
- Capitalizing on Capability
- Complete Remediation

FY 14
- Multiple Shift Operations
- 3,706 Cubic Meters Removed

- Remediation and Repackaging
- Characterization and Certification
- Shipping
Waste – 3706 Campaign Status

- 3706 TRU Waste Campaign ahead of schedule
- Sent total of 361 shipments to WIPP (as of 7/14/13) and reduced radiological inventory by 40%
- Shipped 2,002 m³ (as of 7/14/13)
Waste – 3706 Campaign Status

- Processing waste in four facilities 7 days per week
- 425 workers onsite
- Shipping TRU waste to WIPP and MLLW to permitted facilities
  - MLLW shipments go out of state
- Have worked closely with NMED and WIPP and other stakeholders, including pueblos and local representatives
- Conversion to master task order agreements with small business based contracts following the 3706 TRU Waste Campaign
- An estimated 200 more WIPP shipments to finish 3706
Waste – Other Framework Agreement Milestones

- Schedule for disposition of below-ground TRU requiring retrieval
- Non-cemented above-ground EM legacy TRU
- FY12 and FY13 newly generated TRU received at Area G
Other Work – Water Protection and Legacy Cleanup

- **Ground and Surface Water Monitoring and Protection**
  - More than 140 groundwater monitoring wells
  - Sample surface water at more than 175 locations

- **Consent Order Cleanup**
  - 2,139 sites in Consent Order; 933 administratively complete, 125 delayed/deferred, 75 pending administrative action and 1,006 in progress

- **Buckman Direct Diversion Project**
  - Extensive monitoring
  - Early notification system
Groundwater Protection - Chromium

- Chromium came from cooling towers at Laboratory power plant
- Up to 160,000 pounds released from 1956-72 in hexavalent, Cr(VI) form
- Commonly used in industry at that time as a corrosion inhibitor
Groundwater Protection - Chromium
Groundwater Protection - Chromium

- Grade control structure nearly complete
  - Stabilizes and immobilizes contaminants in place

- Interim measure pumping tests performed on wells R-42, R-28 and SCI-2
  - Collect data to evaluate the feasibility of pump and treat for source removal
  - Expect to pump and treat 5 million gallons this calendar year
Path Forward

FY14 Scope

- Complete 3706 project
- Continue other TRU waste disposition
- Continue interim measures for groundwater chromium contamination
- Groundwater and surface water monitoring
- Investigation and cleanup of additional high risk areas

FY14 Budget

- New Mexico administration and Congressional delegation request: $255M
- President’s request: $220M
- Senate appropriation mark: $250M
- House appropriation mark: $195M
Conclusion

- Making real progress addressing the highest environmental risks
- Spending wisely and providing good value
- Work being performed safely
- NMED continues to hold us accountable for performance