

Environmental Programs at Los Alamos National Laboratory

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Slide 1

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LANL Environmental Cleanup

- Investigate & remediate hazardous and radioactive waste areas
- Repack and ship legacy transuranic waste containers
- Demolish unused buildings



Consent Order with New Mexico requires completion by 2015

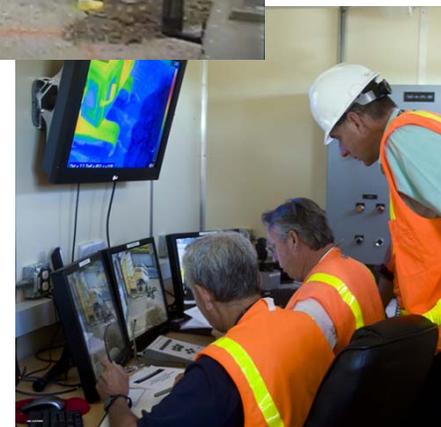
Accomplishments – ARRA: Changing the skyline

- ~450 jobs created or saved
- 16 of 24 buildings demolished
- 15 of 16 groundwater monitoring wells complete



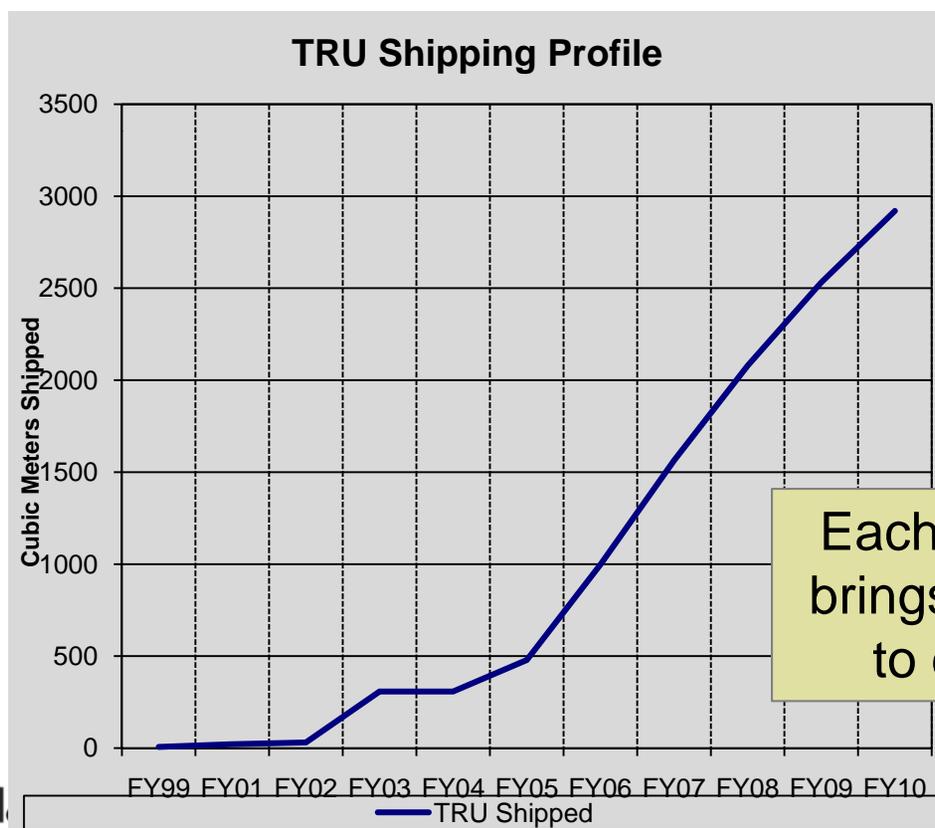
Accomplishments – ARRA: Cleaning the environment

- **Excavation underway at LANL's first landfill**
 - All digging done inside metal enclosures with air filtration
- **Land being cleaned for eventual DOE transfer**
- **\$105 million of \$212 million spent**



Accomplishments – Shipments to WIPP

- Two consecutive record years: 131 shipments in 2009, 141 and still counting in 2010



Each shipment brings us closer to cleanup



Accomplishments – Demolition at Technical Area 54

- Two domes demolished
- Another set for late September
- Removal of domes allows access to underground, retrievable waste
- Acceleration of WIPP shipping program will allow additional demolition



Getting waste off the Hill

- **Since October 2009, LANL has safely completed...**
 - More than 235 chemical or hazardous waste shipments
 - More than 2,100 low-level radioactive waste shipments
 - EnergySolutions, Clive, UT
 - Nevada Test Site
 - Non-hazardous, non-rad shipments to industrial waste facilities in Utah and Colorado



Accomplishments – Across the site

- 385 sites investigated
- 16 sites remediated
- 67 sites with no further action (NFA) requested
- 7 certificates of completion received
- 7,600 soil investigation samples analyzed
- 16,000 cubic yards of material removed and disposed
- 2,562 surface water, vapor, and pore gas samples collected
- 365 groundwater locations sampled with hundreds of samples



Accomplishments – Consent Order

- LANL is committed to compliance
- FY10: All 192 documents submitted on time, still counting
- FY09: All 231 documents delivered on time
- Concentrating FY11 funds on compliance

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT

IN THE MATTER OF:

THE UNITED STATES DEPARTMENT OF ENERGY AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA)	COMPLIANCE ORDER ON CONSENT
)	
)	PROCEEDING UNDER THE NEW MEXICO
LOS ALAMOS NATIONAL LABORATORY))	HAZARDOUS WASTE
LOS ALAMOS COUNTY, NEW MEXICO,)	ACT § 74-4-10 AND THE
)	NEW MEXICO SOLID
RESPONDENTS.)	WASTE ACT § 74-9-36(D)

MARCH 1, 2005
(Revised June 18, 2008)

Budget for 2011

- **FY11 Administration request: \$196.9M**
- **~\$107M remains from ARRA**
- **Working with DOE and NM delegation for additional funds**
- **Increasing efficiencies to complete more work**
 - Already added two buildings to ARRA demolition
 - Added additional groundwater ARRA wells

Support from Congressional delegation

- “We are pleased by the significant progress the Laboratory has recently made with its ARRA funds as well as the continuing improvements to its base program.”

--Sens. Bingaman and Udall,
Rep. Lujan

Congress of the United States
Washington, DC 20510

July 7, 2010

The Honorable Stephen Chu
Secretary
The U.S. Department of Energy
1000 Independence Ave., SW
Washington, DC 20585

Dear Secretary Chu:

We are writing to you regarding the cleanup efforts at the Laboratory (LANL) and funding provided under the American Recovery and Reinvestment Act of 2009 (ARRA). The Department of Energy Management program received \$6 billion, of which \$5 billion is for activities at Los Alamos National Laboratory.

We are pleased by the significant progress that the Laboratory has completed in its second consecutive year of the Laboratory has completed WIPP repository. At the current pace, LANL will ease shipments set last year. And the Laboratory complete constituents in Santa Fe. Without LANL's efforts, the Santa Fe public water utility would not have been meeting the milestones of the Consent Order with NM you to urge you to reprogram additional ARRA funds possible. Barring that possibility, we are urging you to future years – this would require an increase over current

The Laboratory has created 408 full-time equivalent jobs on track to complete its stimulus activities well ahead of schedule. The Laboratory has demolished 11 of the 21 buildings slated for demolition. The Laboratory has completed 11 of the 16 groundwater monitoring wells. Demolition work on eight additional buildings begins this week. *Mexican ran a front-page, full-length story on Sunday that is under way at LANL under ARRA, calling it a "success." Assistant Secretary for EM Ines Triay has lauded the Laboratory's recent testimony before the Senate Armed Services Committee.*

The bottom line is the Laboratory is cleaning up the site, building momentum, and creating good jobs in Northern New Mexico. These employees are receiving valuable training and experience on cleaning up hazardous and radioactive waste. The Laboratory has briefed the Delegation as well as Assistant Secretary Triay, that LANL will have to start laying off its ARRA workers this Fall because they are so far ahead of schedule and the funds for ARRA work will be drying up. Importantly, most of these jobs are contracted with small New Mexico businesses.

We ask that you work with Assistant Secretary Triay to provide an additional \$100 million in ARRA cleanup money, or an increase in near term funding to Los Alamos so that this critical work can continue. We worry that absent this additional funding, the Laboratory will have a hard time meeting its Consent Order milestones in fiscal year 2011.

We urge you to act on this important issue as soon as possible given that reprogramming deadlines are fast approaching for the use of such funds.

Sincerely,



Jeff Bingaman
U.S. Senator



Tom Udall
U.S. Senator



Ben Ray Lujan
Member of Congress

Plan for completion



Year	2009-2010	2011-2014	2015-2017
Phase	Building capability & Ramping up	Heavy Remediation, full-scale clean up	Completion (2015) & closeout
Funding range *	\$600-700M	\$1 billion +	\$800-900M

*Based on 2007 DOE funding guidance

Economic opportunities for small businesses

- **LANL needs qualified partners to complete drive to 2015**
- **Cost for cleanup completion is \$1 Billion+**
- **New contracting strategy stresses competition and efficiency**
 - Strategy was successful with ARRA
- **Lab will request bids from small business subcontractors**
- **Information/networking session held in August**



Business networking forum, August 19, 2010

Cooperation with neighbors

- Demolition begins at Technical Area 54 – San Ildefonso area of concern
- Memorandum of Understanding for water monitoring and runoff control for Santa Fe water utility



Recognition for cleanup work

The New York Times



SPIEGEL ONLINE



The Washington Post



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END OF AN ERA AT LANL



EDDIE MOORE/JOURNAL

Two excavators start ripping apart a building Tuesday that was once an essential part of the Cold War. Built in 1945, the building housed plutonium and uranium research and production.

Plutonium Lab Demolished

Laboratory Tears Down Old Nuke Facility

By PHIL PARKER
Journal Staff Writer

LOS ALAMOS — Two giant excavators — one equipped with a claw, the other with a cutting shear — tore through the walls and ceiling on one of Los Alamos National Laboratory's most historically significant buildings Tuesday.

The demolition, part of continuing Recovery-Act-funded cleanup of LANL's Technical Area 21, was making its way through DP West, where plutonium cores for bombs were made from 1945 through 1978. For years, it was the only such facility in the world.

Plutonium for atomic bombs has to be processed from liquid form into metal that can be shaped into a core. The plutonium for the bombs Fat Man and Little Boy, dropped on Japan toward the end of World War II, was processed at LANL's D site, located at a centralized location within Los Alamos.

Before the war ended, however, those operations were moved to a group of facilities called DP West, at the eastern edge of the town near its entrance.

In 1978, plutonium processing then



An operator wears protective gear and a respirator because of radioactive contamination in a building being torn down at Los Alamos National Laboratory on Tuesday.

moved to LANL's Technical Area 55, and the DP West buildings haven't been used for lab operations since. Over the years, they've been gutted, and on Tuesday their destruction commenced.

As for the name of the sector,

there is some historical debate over what "DP" stands for. It could mean "D prime," since it was common during the Manhattan Project to designate secondary buildings as

See LAB on PAGE 6



In conclusion

- **Capacity, plan, and team are in place**
- **Performance greatly improved**
- **Major push underway for completion by 2015**

