



# **Cleanup Reform Account Accelerated Cleanup Proposal Los Alamos National Laboratory Environmental Restoration Project**

## **CRA Interactive Information Workshop**

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**Office of Los Alamos Site Operations**

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# Presentation Agenda

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- **Goals**
- **What is different?**
- **Overview of Strategies**
- **Overview of Projects**
- **Summary**
- **Questions**



# Goals

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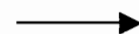
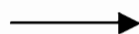
- **Reduce or Eliminate Risk**
- **Address High Priority Sites**
- **Enhance Groundwater Monitoring and Protection**
- **Reduce overall ER Project Schedule**
- **Implement Management Improvements**



# What is Different?

## Past:

- Cleanup strategies limited by budget constraints
- Work executed PRS by PRS
- Multiple task-order contracts with limited incentives
- Standard regulatory approval times
- Limited use of Integrated Project Teams
- Limited continuous improvement in business/contracting/technical processes



## Future:

- Seek stable funding to execute as a project
- Apply watershed/aggregate approach
- Larger performance based contracts (start-to-finish)
- Expedite regulatory approval times
- Expand use of Integrated Project Teams
- Higher DOE expectations/performance standards/accountability for improving business/contracting/technical processes



# Overview of Strategies

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- **Technical**

- Accelerate Investigations/Corrective Actions at High Risk Sites
  - ◆ Aggregate/Watershed Approach
- Monitor and Protect Drinking Water Supply Wells and Offsite Migration
  - ◆ Monitor/sample for contaminants in groundwater
  - ◆ Reduce/eliminate and contain contaminant sources
  - ◆ Control/contain migration (reactive barriers)
  - ◆ Install additional monitoring/sentry wells
- Develop Long-term Environmental Stewardship
  - ◆ Monitor Groundwater Well Network (early warning for contaminant migration)
  - ◆ Maintenance of Engineered Remedies (surveillance to ensure remedy working, CAPs, covers, etc..)



# Overview of Strategies (continued)

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- **Regulatory**

- Mutual Commitment to completion (DOE, NMED, EPA)
- Define End Points Through Integrated Project Teams
- Reduced Document Review Times and Focus on Decisions

- **Business**

- Acquisition Strategies
  - ◆ Issue Performance-Based Contracts
  - ◆ Larger Scopes of Work Given to Subcontractors
  - ◆ Benchmark with Industry/Other Government Agencies
- Refocused Management Structure and Execution
  - ◆ Manage as Project
  - ◆ Authorize and fund work in executable portions
  - ◆ Focus on Progress



# Overview of Projects

## TA-21, Manhattan Project -era Plutonium Processing Area

- Cost of \$85M; Cost reduction of \$40M
- Completed by FY2008; Schedule reduction of 13 years
- 154 Potential Release Sites (PRSs) / 5 Material Disposal Areas (MDAs)
- Addresses highest priority TRU waste sites near community of Los Alamos

Activity Description	Budgeted Cost	FY03	FY04	FY05	FY06	FY07	FY08
D1 TA-21 Non MDAs							
TA-21 PRS Characterization & Remediation	34,573,000						
SAPs Complete	0						
Fieldwork Complete	0						
RFI Reports Complete	0						
VOC/NCHs Complete	0						
E1 TA-21 MDAs							
MDA Characterization, Design, and Construction	30,141,000						
MDA-U Submit Permit Mod Request	0						
MDA-B Submit Permit Mod Request	0						
MDA-A Submit Permit Mod Request	0						
MDA-T Submit Permit Mod Request	0						
MDA-V Submit Permit Mod Request	0						
MDA-V CMI Complete	0						
MDA-T CMI Complete	0						
MDA-U CMI Complete	0						
MDA-B CMI Complete	0						
MDA-A CMI Complete	0						
TA-21 MDAs Complete	0						
E1 TA-21 PRS							



# Overview of Projects (continued)

## Los Alamos County Lands

- Cost of \$40M; Cost reduction of \$13M.
- Completion by 2008; Schedule reduction of 9 years.
- 25 Land Transfer sub-parcels; 65 PRSs; 5 canyons
- Risks near community/residents are reduced or eliminated first

Activity Description	Budgeted Cost						
		FY03	FY04	FY05	FY06	FY07	FY08
H1 Townsite/Pueblo Watersheds							
Townsite/Pueblo Canyon Char & Remediation	40,000,000						
SAPs Complete	0		◆				
Fieldwork Complete	0			◆			
Canyons Characterization	0			◆			
RFI Reports Complete	0				◆		
VCA/VCMs Complete	0					◆	
LA/Pueblo Watershed Report	0						◆





# Overview of Projects (continued)

## Material Disposal Areas (MDAs)

- Cost of \$20M; Cost reduction of \$8M
- Completion by 2008; Schedule savings of 5 years
- 4 Priority MDAs containing Transuranic Waste completed by 2008
  - MDA-H (TA-54)
  - MDA-C (TA-50)
  - MDA-L (TA-54)
  - MDA-AB (TA-49)

Activity Description	Budgeted Cost						
		FY03	FY04	FY05	FY06	FY07	FY08
G1 Non TA-21 Material Disposal Areas							
MDA Characterization, Design, and Construction	21,433,000						
MDA-H Submit Permit Mod Request	0	◆					
MDA-H CMI Complete	0		◆				
MDA-C Submit Permit Mod Request	0			◆			
MDA-L Submit Permit Mod Request	0			◆			
MDA-AB Submit Permit Mod Request	0			◆			
MDA-C CMI Complete	0				◆		
MDA-AB CMI Complete	0					◆	
MDA-L CMI Complete	0						◆
Non TA-21 MDAs Complete	0						◆



# Overview of Projects (continued)

## Groundwater Monitoring and Protection

- Cost of \$41M; Cost Reduction of \$15M
- Completes Hydrogeologic Workplan Regional Wells
- Take action to ensure protection of Los Alamos County drinking water supplies and Pueblo water resources
- Install Reactive Barriers for source control
- Install new Monitoring (sentry) Wells

Activity Description	Budgeted Cost	FY03	FY04	FY05	FY06	FY07
<b>A1 Regional Wells &amp; Associated Reports</b>						
Regional Wells and Associated Reports	18,523,000					
R-18 Construction Complete	0					
R-23 Construction Complete	0					
R-17 Construction Complete	0					
R-30 Construction Complete	0					
R-4 Construction Complete	0					
R-27 Construction Complete	0					
R-3 Construction Complete	0					
R-10 Construction Complete	0					
Transition to Institution	0					
<b>E1 Groundwater Decision Analysis and Monitoring</b>						
Regional Wells Reports Complete	20,000,000					
Monitoring Well #1 Construction Complete	0					
Monitoring Well #2 Construction Complete	0					
Monitoring Well #3 Construction Complete	0					
Monitoring Well #4 Construction Complete	0					
Monitoring Well #5 Construction Complete	0					
Monitoring Well #6 Construction Complete	0					
Monitoring Well #7 Construction Complete	0					
Monitoring Well #8 Construction Complete	0					
Monitoring Well #9 Construction Complete	0					
Monitoring Well #10 Construction Complete	0					
Transition to Institution	0					
<b>C1 Passive Barriers</b>						
LA Pueblo & Montezuma Barrier Instl & Maint	4,340,000					
Canyons Characterization Work	0					
Barrier Construction Complete	0					
Transition to Institution	0					



# Summary

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- **Accelerate four projects, complete by FY 08, cost reduction of \$76M**
  - TA-21
  - Los Alamos County lands
  - Material Disposal Areas
  - Groundwater Monitoring and Protection
- **Closes 223 potential release sites**
- **Reduces overall ER Schedule (15 years): 2030 to 2015**
- **Focus on High Priority/High Risk Sites**