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Title: TA 55 Reinvestment Project II Phase C Update Project Status May 23, 2017

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TA 55 Reinvestment Project II Phase C

Update Project Status

LI: 11-D-801

Los Alamos National Laboratory
May 23, 2017

Federal Project Director: John Gallegos

Project Management Executive: Kimberly Davis Lebak

Program Manager: Michael Thompson

Contracting Officer: Robert Poole

Contractor Project Manager: Tony Giordano

Contractor Facility Project Owner: Dr. Timothy Nelson



Derivative Classification Review

UNCLASSIFIED

Guidance Used: N/A

DC/RO Name/Z Number:

Cindy Costa / 151054

Organization:
MPD-PO

Signature:

Date:
05/23/2017

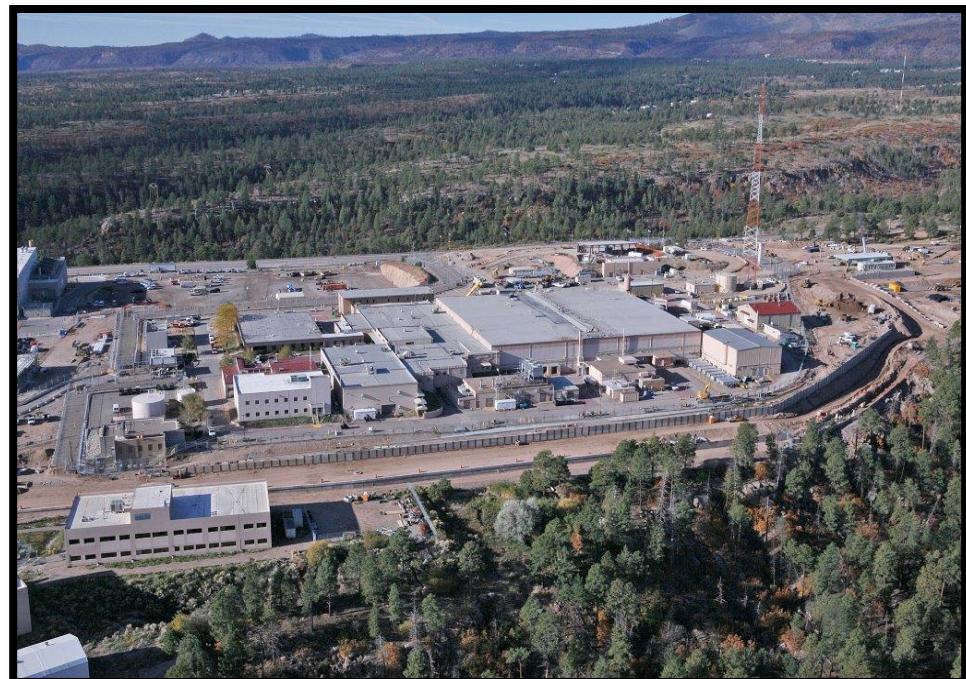
The TA-55 Reinvestment Project (TRP) II Phase C is a critical infrastructure project focused on improving safety and reliability of the Los Alamos National Laboratory (LANL) TA-55 Complex. The Project recapitalizes and revitalizes aging and obsolete facility and safety systems providing a sustainable nuclear facility for National Security Missions.

Objective of TRP II

- Improve the Safety and Reliability
- Accomplish project with minimal disruptions to Operations
- Protect Worker and Public Safety
- Conduct Operations Securely
- Protect the Environment

Project Status

- Project made up of 6 subprojects
- 3 of the 6 are 100% complete and accepted by the facility and the NA-LA
 - PF-7 facility demolition; Glovebox structural upgrades; Rework the fill monitoring systems on the Vault Water Tanks.
- Remaining 3 are working and at various stages of completion
 - Replace Uninterruptible Power Supply system; Replace Criticality Alarm System; provide an Exhaust Stack monitoring system



Status

- **Uninterruptible Power Supply (UPS) system**
 - Building structure complete
 - Major systems, services and components are installed
 - Remaining construction includes: finalizing fire alarm wire and termination; installing exterior doors; completing exterior punch list items
 - Started system testing and preparing for facility turnover
 - PF-4 modifications and follow cutover activities scheduled to complete March 2018



4400 lbs UPS
Panel Being
Placed onto
Mounting Plate



Battery Racks
in Place

Status (continued)

- **Criticality Alarm System (CAS)**
 - Construction complete
 - System tested, satisfied all technical / functional requirements
 - System turned over and accepted by the facility
 - Working final document close-out



CAS CIDAS Panel Factory
Acceptance Test



CAS Detector Heads
installed in PF-4

CAS CIDAS Panel
Installed in TA-55
Operations Center

Status (continued)

- **Exhaust Stacks (ES)**

- Construction and sample probe fabrication performed by direct hire work force
- Construction and probe fabrication are complete
- 2 outages are required for system tie-in, schedule for June
- System testing ~ 2 weeks post system tie-in



Exhaust Stack
Showing Penetrations



Sample Probe



Project Cost and Schedule

- **Cost**

- Project TPC is \$98,925K; actuals spent to date is \$81,073K; EAC \$93,920K
- Project cumulative cost performance (CPI) is 0.99
- Project LI and OPC scope are fully funded well into FY 18. No concerns regarding project completion

- **Schedule**

- Project baseline completion date is August 17, 2018
- Current project forecast date for completion is July 5, 2018
- Project cumulative schedule performance (SPI) is 0.97

TA 55 Reinvestment Project III Status (see handout)



TA-55 Reinvestment Project III (TRP III)

Associate Directorate for Project Management



Scope:

The TRP Project will improve the reliability of the TA-55 Complex by replacing, modifying, and upgrading existing infrastructure capital assets. The NNSA Deputy Administrator for Defense Programs approved CD-0 with TRP designated as a single line item project in March of 2005. A phased implementation approach based on safety needs and the TA-55 facility priorities was adopted in 2008.

TRP III is the final phase of projects to upgrade PF-4 at TA-55. Under TRP III, NNSA will replace the fire alarm control panel and devices that are obsolete, no longer NFPA nor ADA compliant, and repair/replacement parts are no longer available. TRP III will add a separate control panel for the non-nuclear facilities in TA-55, which improves monitoring and control capabilities by separating PF-4 from the remaining TA-55 buildings, allowing the potential to maintain operations during testing, maintenance, and events. Separating the non-PF-4 buildings onto their own panel also allows greater flexibility and efficiency to mitigate safety concerns and manage general maintenance.

TRP III is considered a non-major system acquisition project.

Acquisition Strategy: TBD

Key Information/Milestones:

TRP III CD-0	March 2005
TRP III CD-1	TBD
TRP III CD-2/3	TBD
TRP III DCF Closeout	TBD
TRP III CD-4 (CBB)	TBD

Status: NNSA completed an Analysis of Alternatives (AoA) and issued a report in August 2016. The report was approved in October 2016.

Project Details:

Project Type	Engineering, Procurement, Construction, Commissioning
Contract Type	Direct Hire and Fixed Price
Project Stage	CD-1 Development
Total Project Cost	TBD
Funding Source	Weapons
Project Start Date	March 2005
Project Duration	TBD

Key Project Personnel:

Federal Project Director	John Gallegos, APM
Facility Project Owner	Tim Nelson, PSI
Responsible Associate	Jeff Yarbrough, ADPSM
Director	
Project Manager	Tony Giordano, ADPM