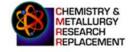
Chemistry and Metallurgy Research Replacement (CMRR) Project

CMRR Project Update

Los Alamos, New Mexico June 10, 2010

> Rick Holmes, LANL CMRR Division Leader

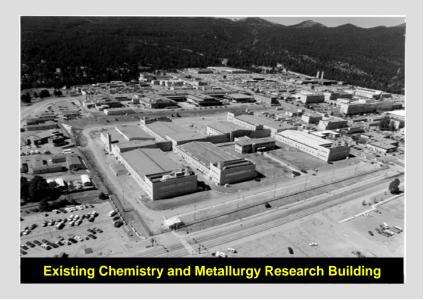




CMRR Mission Need Statement

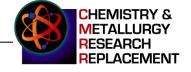
"The CMR Replacement (CMRR) Project seeks to relocate and consolidate mission-critical CMR capabilities at LANL to ensure continuous support of NNSA stockpile stewardship and management strategic objectives; these capabilities are necessary to support the current and directed stockpile work and campaign activities at LANL beyond 2010."



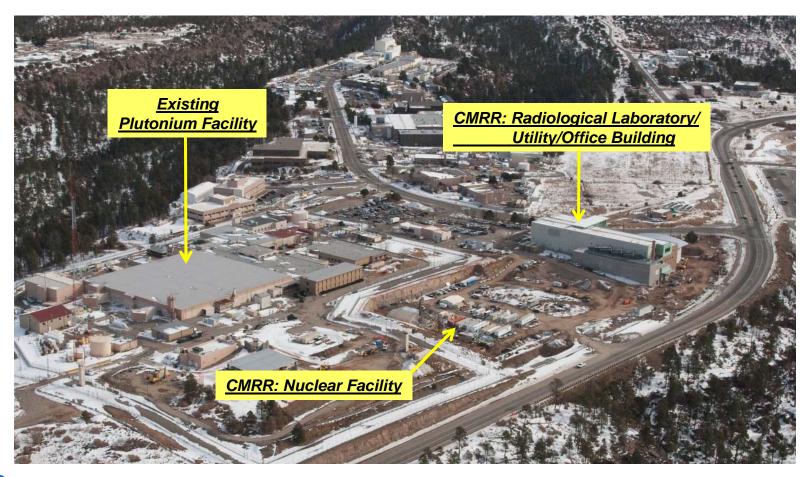






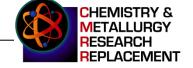


CMRR at Technical Area-55









Project Overview

- Budget Authority \$97M for FY10
- President's Request \$225M for FY11
- NNSA Headquarters Program Direction
 - Complete RLUOB within approved performance baseline Complete
 - Complete REI according to performance baseline Ongoing/Ahead of schedule
 - Plan for CMRR NF completion by 2020 with operations in 2022
- NF Final Design
 - Technical Safety Strategy ready for Definitive Design
 - NNSA and DNFSB validation of nuclear safety approach
 - Executive and Congressional support
 - Nuclear Posture Review Published





Radiological Laboratory/Utility/Office Building (RLUOB)





Radiological Laboratory Utility Office Building (RLUOB) and RLUOB Equipment Installation (REI)

Radiological Laboratory/Utility/Office Building (RLUOB)



- Facility Performance Baseline (\$164M TPC):
- 19,500 NSF radiological lab space (<8.4g 239 Pu equivalent)
- Centralized utilities/services for all CMRR facility elements
- Office space for 350 CMRR workers
- Consolidated training facility
- Facility incident command; emergency response capabilities

Status: Substantially Complete – Sept 2009 Closeout (CD-4) – Feb 2010

- RLUOB Equipment and Installation (REI)
- Operational equipment to complete functionality of RLUOB

Status: CD-2/3 Approved – July 2009 TPC = \$199.4M Completion – 2013

RLUOB Highlights

- CD-4 (tailored) Closeout Submitted to NA-1
 - Complete within baseline
- Claims Process Continues
- Sustainable Design:
 - FY10 NNSA Best in Class:
 Sustainable Design Green Buildings
 - FY10 DOE EStar:
 Sustainable Design Green Buildings
 - LEED Silver/Gold applicant (summer 2010 review)

RLUOB Equipment Installation

- Working Ahead of Plan
- Laboratory walls construction complete
- NDC coating underway
- Construction Subcontracts (mechanical/electrical/piping) Awarded this Summer







Radiological Laboratory/Utility/Office Building



- Over two million man-hours worked with no lost time accidents
- Leadership in Energy and Environmental Design (LEED) "Silver" certification award anticipated
- FY10 NNSA Pollution Prevention Award, Best in Class for Sustainable Building
- Highest Quality Standards Nuclear Quality Assurance (NQA-1)







RLUOB Progress Photos





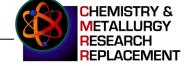




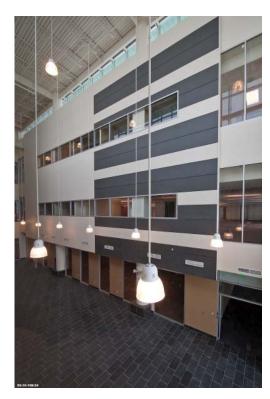








RLUOB Progress Photos



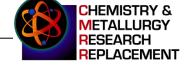












RLUOB Equipment Installation (REI)

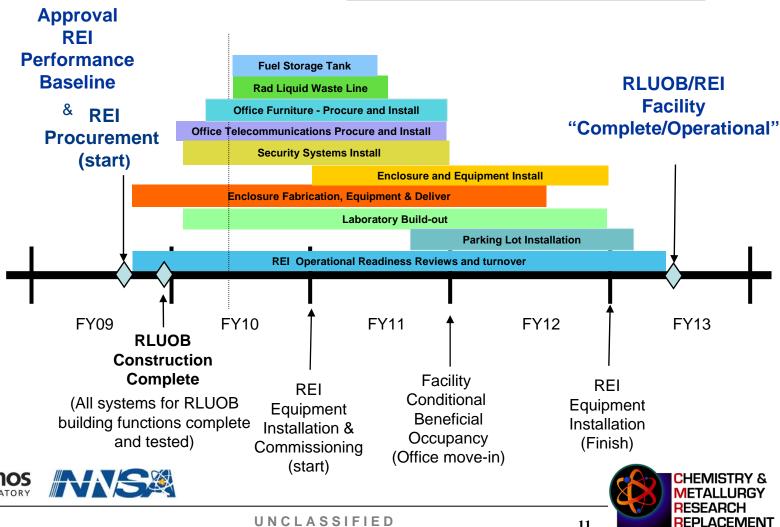






RLUOB Equipment Installation Plan

Total Project Cost = \$199.4M



Nuclear Facility (NF)







Program Requirements

NF shall include laboratory and research capabilities for:

- Missions assigned to LANL for Analytical Chemistry and Materials Characterization
- Special Nuclear Material long-term storage
- Capability to handle Large Vessel Handling Mission in future
- Mission support operations necessary to perform the above including, material handling, short-term storage, waste management, sample management, and sample preparation





Additional NF Design Requirements

- Laboratory spaces shall be designed to be flexible and modular to accommodate changes in mission
- Service life shall be 50 years
- Gloveboxes, hoods, and other nuclear specialty equipment shall utilize standard design platforms as much as practical





Nuclear Facility (NF) – Status

Nuclear Facility (NF)



- Baseline under Development:
- CMR Laboratory Replacement Capability
- Nuclear "Hazard Category 2" Facility
- 22,500 Net Square Feet Lab Space
- Special Nuclear Material storage (6M tons)
- Special Facility Equipment
- Robust "Security Category 1"

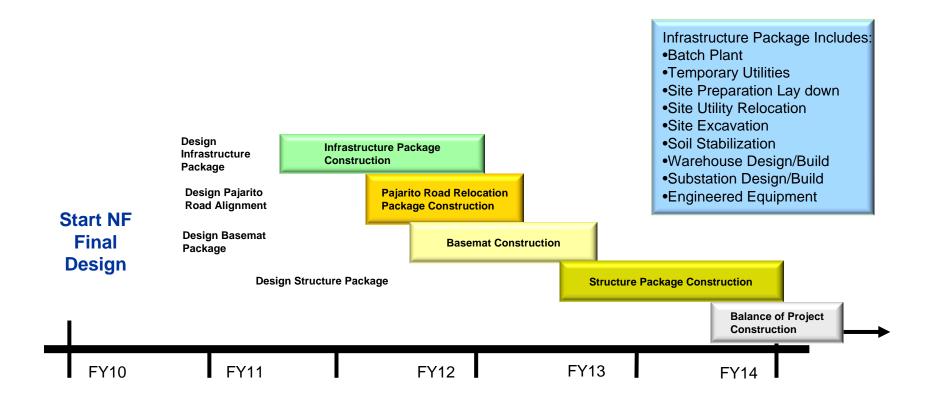
Status: Interim design

- Rev 0 Preliminary Documented Safety Analysis published in April
- Preliminary Safety Analysis Report: Review Underway
- Maintain active, continuous dialog w/DNFSB sustain certification
- User Validation and Optimization of Lab layouts
- Engineering publishing technical baseline documents complete this Summer
- Issue Final Design Contracts preserve current design teams
- Supported NNSA HQ TPC Cost range Review (two scenarios) - April
- Execute Acquisition approach
 - Baseline/Execution Chunks
 - Non-Nuclear Infrastructure start FY11
- NF Completion will be to NQA-1 (2008/2009 addenda)





Planned Nuclear Facility Baselines

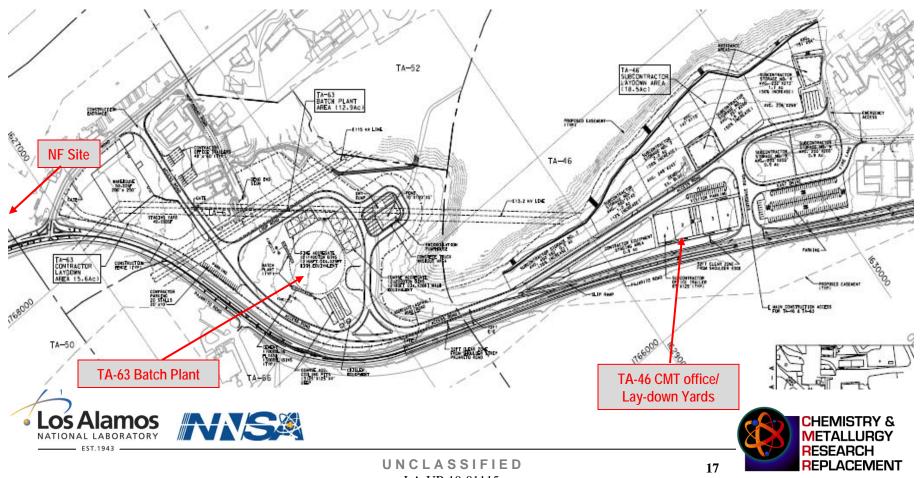






Construction Site Infrastructure

Lay-down/fabrication yards offices will be established approximately 1 mile from the NF construction site at TA-63 and TA-46 due to lack of available space at the NF construction site.



Closing Comments/Questions





