

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

Radiological Laboratory Utility Office Building (RLUOB)	
Building Shell	<ul style="list-style-type: none"> <li>• Facility Performance Baseline (\$184M TPC):</li> <li>• 19,500 NSF radiological lab space (&lt;8.4g Pu- 239 equivalent)</li> <li>• Centralized utilities/services for all CMRR facility elements</li> <li>• Office space for 350 workers</li> <li>• Consolidated training facility</li> <li>• Facility incident command; emergency response</li> </ul> <p><b>Status: Construction Complete</b></p>
	<p><b>RLUOB Equipment and Installation (REI)</b> Procure and install equipment RLUOB</p> <p><b>Status: Execution Start Approved – July 2009</b> TPC = \$199.4M Completion – 2013</p>
Equipment	

## Status

- **Building structure and major systems accepted**
  - Construction complete
  - Over 2 million craft hours with no lost-time accidents
  - Nuclear Quality Assurance (NQA-1)
  - Sustainable design features

## RLUOB Equipment Installation

- Construction safety – highest priority

### Milestones:

- Office turnover to operations – October 2011
- Lab space turnover to operations –forecasting approximately 1 year ahead of Schedule
- Under Cost



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# RLUOB Road to Complete and Operational

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## Conditional Beneficial Occupancy (CBO)

- Fire detection record of completion obtained
- Turnover the Central Utility Building (CUB), Basement, Mezzanine, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> floors of RLUOB to LANL Operations to safely operate and occupy the office space
- 22 Systems required for CBO are operational

## Beneficial Occupancy

- Complete remaining construction of Rad Lab areas (1<sup>st</sup> floor), RLW, and Fuel Oil, and system turnover to LANL Operations for programmatic radiological work.

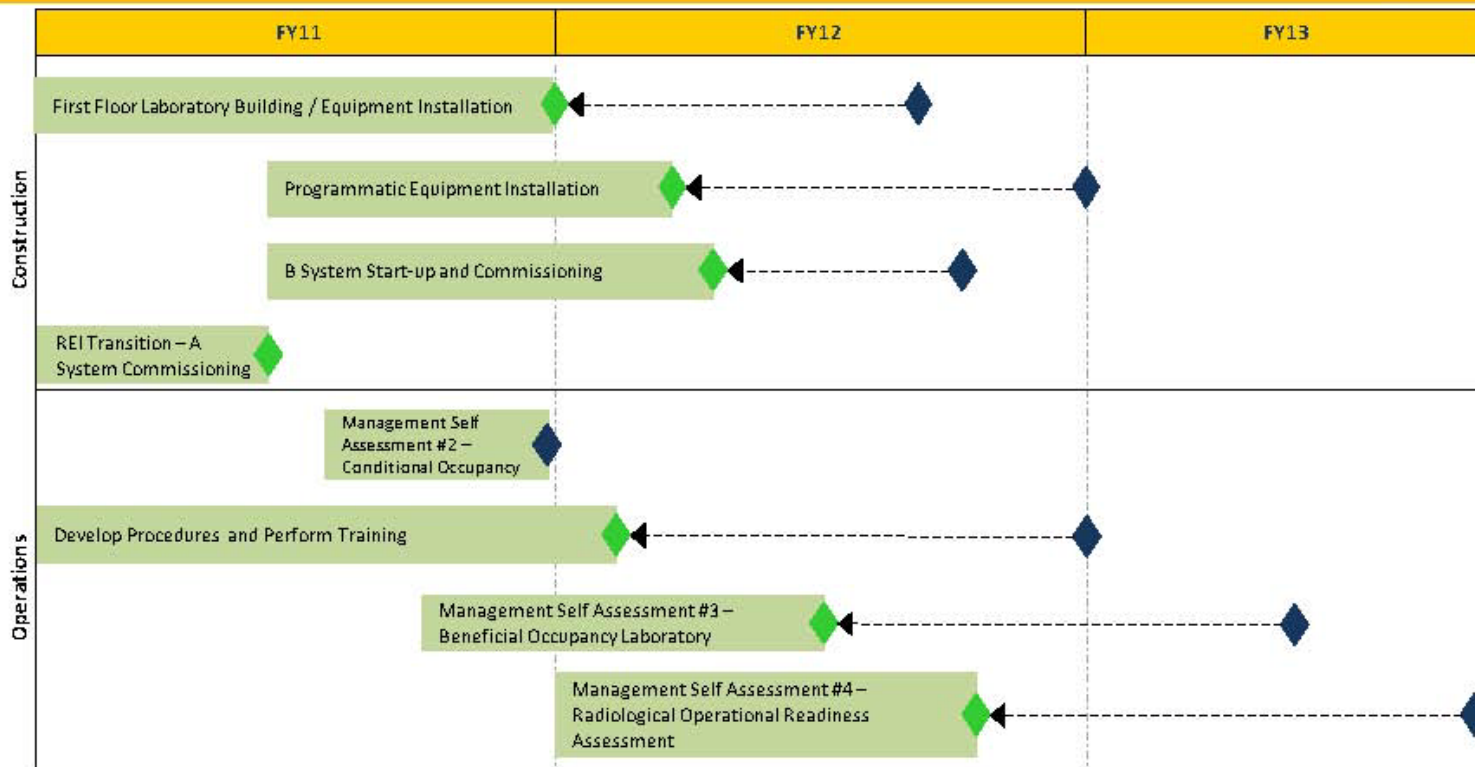




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# RLUOB Equipment Installation (REI) Ahead of Schedule and Under Budget



 Baseline Milestone Dates  
 Current Milestone Dates



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## RLUOB – Artist’s Rendition, 2005

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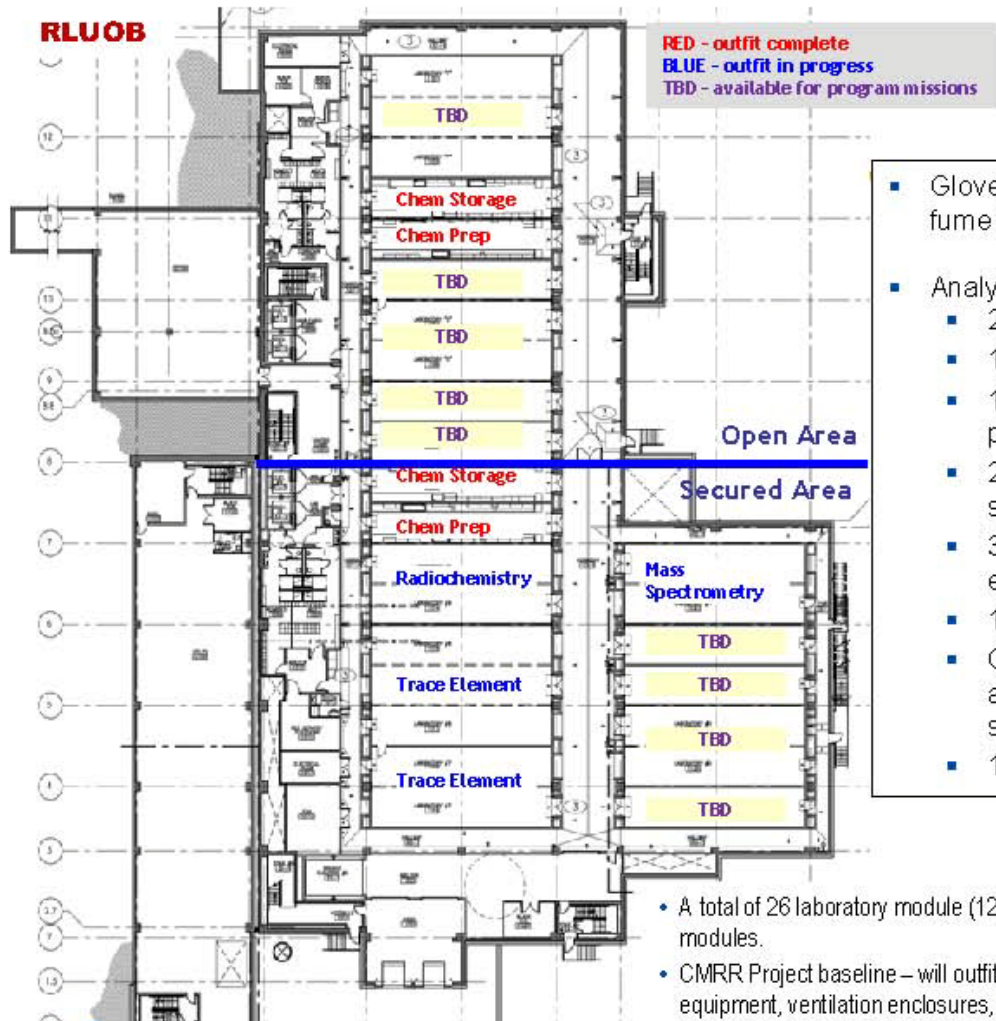
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- Glovebox (7), open-front hood (19) and chemical fume hoods (10)
- Analytical instrumentation
  - 2 – thermal ionization mass spectrometers
  - 1 – magnetic sector gas mass spectrometer
  - 1 – high resolution inductively coupled plasma-mass spectrometer
  - 2 – inductively coupled plasma-mass spectrometer
  - 3 – inductively coupled plasma-atomic emission spectrometer
  - 1 – cold vapor atomic absorption
  - Complete nuclear counting systems (gross alpha/beta, alpha spec, gamma spec, liquid scintillation)
  - 10 – deionized water system



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