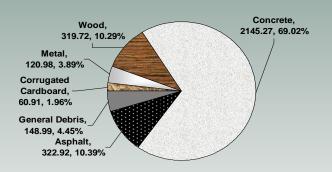
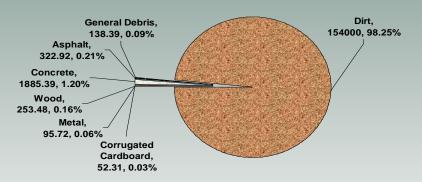
## **Environment**

### Materials Recycled Through June 2008 (tons, % of total)

Total Materials (excluding soil): 3,108.19 tons 95.55% Waste Avoided



Total Materials (including soil): 157,108.19 tons 99.91% Waste Avoided



### Pollution Prevention - Storm Water Erosion and Sediment Control



Turf reinforcement mat and rock for erosion protection and energy dissipation.



Grizzly track-out at construction Silt vehicle access & egress for dis sediment transport control. LALP-08-065



Silt saver at RLUOB storm-water discharge location for sediment control.



Georidge<sup>™</sup> panels for runoff control and sediment transport.

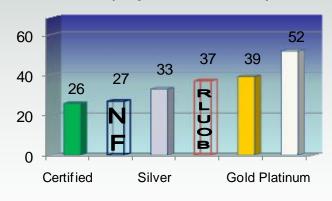
## **Environment**

The U.S. Green Building Council (USGBC) Leadership in Energy & Environmental Design (LEED<sup>TM</sup>) Green Building Rating System<sup>®</sup> is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings.

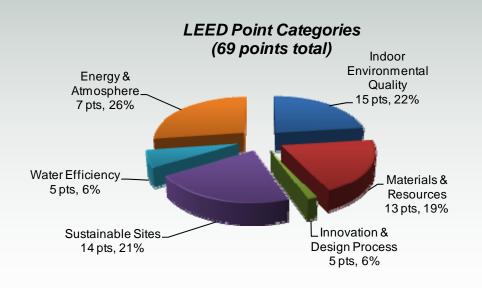
RLUOB is the first of its kind to be registered with the U.S. Green Building Council.

Due to its unique nature and design, the NF is the first of its kind to be in the process of registering with the U.S. Green Building Council.

## LEED Certification Levels and CMRR Goals (69 points maximum)







## **Environment**

#### RLUOB Construction – Environmental Permit Status

#### • Clean Air Act (CAA)

- EPA: 40 CFR 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs) Subpart H for radionuclides other than radon – Approval for pre-construction dated July 14, 2005.
- NMED: 20.2.72 NMAC Construction Permit for construction and operation of CMRR Phases A and B in accordance with 40 CFR 60 Standards of Performance for New Stationary Sources Permit No. 2195N issued September 16, 2005. Permit Revision 2195NR1 issued December 20, 2007.
- Interested Parties Settlement Agreement: Requires public meeting on RLUOB air permit every six months. Signed September 15, 2005.

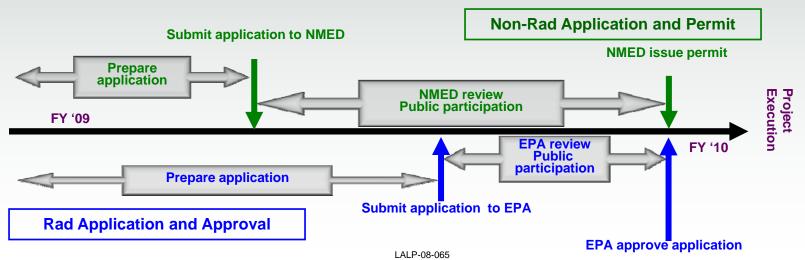
#### Clean Water Act (CWA)

- EPA: Notice of Intent to discharge under the NPDES Construction General Permit filed by UC, LANS, and ACCLP.
- Storm Water Pollution Prevention Plan (SWPPP): On file and updated, when necessary.

#### Resource Conservation and Recovery Act (RCRA) – Includes RLUOB and NF

- NMED: Approval to proceed with construction prior to operating permit issuance dated February 21, 2007.

### Nuclear Facility Construction – Air Permit Timeline



# **Quality Assurance**

Welding Inspection

**Concrete Inspection** 

#### **Subcontractor Worker**

Fabrication and Installation - Perform work in accordance with instructions, procedures, & drawings

#### **Subcontractor First-Line Manager**

Check the subcontract workers work

#### **Subcontractor Superintendant**

Spot check the subcontract first-line managers work

#### **Subcontractor QC Inspector**

First-level inspection to design drawings, specifications, codes, & standards

Inspection verification to design drawings, specs, codes, &

**Program Oversight** 

Quality Control (QC) is the overseer of work done.

Civil Inspection

Inspection Reports

Photos

**Test Reports** 

Record Package

Verification

#### **CMRR QC** Inspector

standards

**CMRR QA** Group

Quality Assurance (QA) is the oversight of work and associated documentation. I AI P-08-065

# Safety

## CMRR Project Safety Performance January 2007 - August 2008

### People-Based Safety

- No lost time accidents in over 975,000 hours worked
- People-based safety program Daily Observations Getting Safer (DOGS)
  - Craft-owned & maintained:
  - Team includes carpenters, operators, laborers, ironworkers, and electricians;
  - Over 12,000 safety observations.
- Project Zero Accident Team (ZAT). Comprised of management from ACCLP, CMRR, NNSA, and craft representatives.
  - Safety incentives and recognition for crafts;
  - Weekly site safety walk downs with craft and management;
  - Safety leadership workshops for craft and managers;
  - Safety review of 3-week look-ahead schedule.



DOGS and Zero Accident Team



Steel Erection "Topping Out" (Fir tree symbolizes "Safe Completion")



Safety Meeting

# Safety

### Safe & At-risk Behaviors

Total observations = 12,593









#### Total safe observations\* = 11,992 95%



#### Legend

- \*At-risk observations: work behaviors that can be changed to improve safe working.
- \*\*Safe observations: work behaviors that are performed safely.

## Construction









### RLUOB Construction Scope

### Laboratory - 19,500 sf of Radiological Space

- Capability for 26 Lab Modules
- Laboratory spaces are designed to be flexible and modular
- 4 Lab Modules fitted out in ACCLP contract

### Centralized Utility Building - (RLUOB and Nuclear Facility)

- Skid-mounted water treatment system
- Skid-mounted unit to produce de-ionized water
- Packaged boilers to produce heating water
- Chillers to produce cooling water
- Thermal energy (ice) storage unit
- A skid-mounted compressor system to produce compressed air
- Standard electrical power with diesel generated back up supply
- Specialty Gases: argon, helium, nitrogen, regen, & P-10













## Construction

### RLUOB Construction Scope

Office space for 350 workers

Training Facility and 46 Trainer offices

- > 4 classrooms capable of holding 25 trainees
- > Space for 2 simulated Labs

Facility Incident Command Center & Emergency Response Capabilities

LALP-08-065

**Facility Operations Center** 

#### Construction Bulk Commodities

1	C+	-4 1	0	
	Stru	cturai	Cor	crete

- Structural Steel
- Electrical Conduit and Raceway
- Electrical Wire and Cable
- Process Piping and Tubing
- Sheet Metal Duct Work

16,800 cubic yards

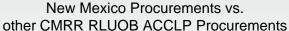
1,010 tons

197,000 linear feet

412,000 linear feet

50,000 linear feet

8,000 linear feet





## New Mexico Subcontracts vs. other CMRR RLUOB ACCLP Subcontracts

