

# Los Alamos Site Office Environmental Projects Office 3,706 TRU Waste Campaign Update



**Northern New Mexico  
Citizen's Advisory Board**

**May 30, 2012**



**EM** Environmental Management

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# Current Focus of LANL TRU Program



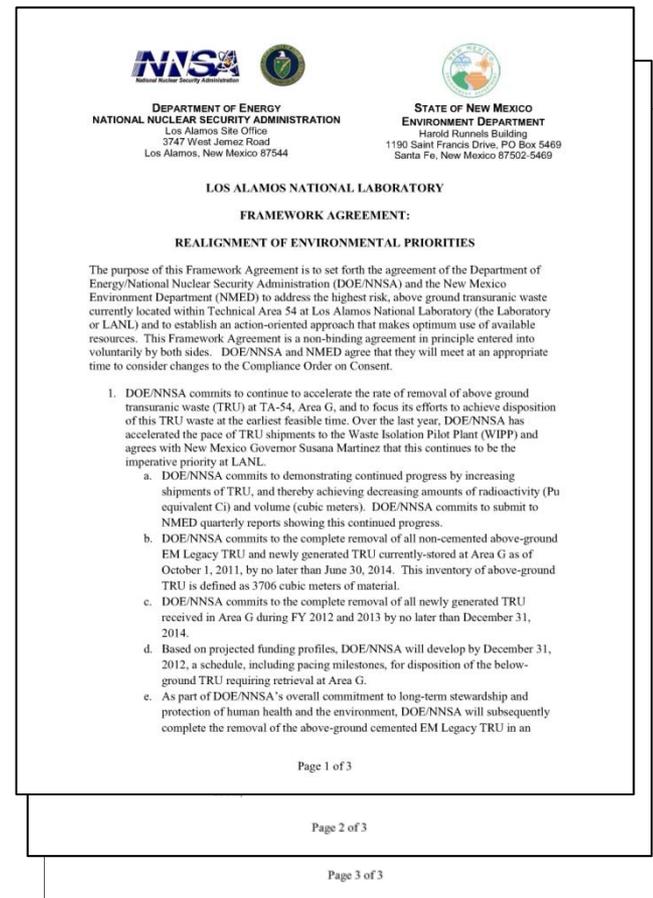
- Las Conchas Fire last year focused national attention on TRU waste stored at Area G
- State of New Mexico and DOE/NNSA made removing TRU waste stored at Area G their highest environmental priority
- New Mexico Environment Department and DOE/NNSA forged "Framework Agreement" announced on January 5, 2012



# Framework Agreement with NMED

DOE/NNSA will continue to accelerate removal of TRU waste and submit quarterly reports of progress:

- Complete removal of all non-cemented above-grade TRU waste in storage on October 1, 2011, by no later than June 30, 2014 (defined as 3,706 m<sup>3</sup> of material)
- Complete removal of all newly-generated TRU waste received at Area G during FY 2012 and FY 2013 by no later than December 31, 2014
- Develop by December 31, 2012, a schedule that includes pacing milestones for disposition of the below-grade TRU requiring retrieval at Area G
- Complete removal of above-grade cemented Legacy TRU waste in an efficient and effective manner



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# Quarterly Reports to NMED

## LANL 3,706 TRU Campaign Status Report – FY12 3rd Qtr. (April thru June 2012)

### Processing Highlights (as of May 27, 2012)

#### RANT (Shipping Facility):

- During single shift operation, shipped 38 shipments for a cumulative total of 126 shipments to WIPP in FY12.

#### WCRRF (High Activity Drum Line):

- During split shift operation, the repackaging line performed remediation on 138 drums, for a total of 490 drums since the beginning of the campaign.

#### Building 412 (Box Line):

- Successfully upgraded to Nuclear Safety Hazard Category 3 operations.

#### Dome 731 (Drums):

- Conversion to Box Line to complete readiness in August, 2012.

#### Dome 375 (Large Box Line):

- Continues process capability construction (conversion to large box line) and is scheduled to be in operation on September, 2012.

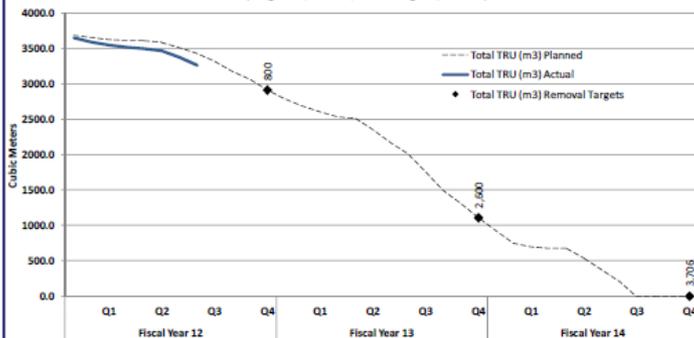
#### Central Characterization Project:

- Direct loaded box waste is being shipped to WIPP.
- Currently 326 containers are approved in the Waste Disposal System database, and 693 are awaiting approval.

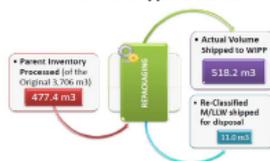
TRU Volume Removed		FY12 thru 05/20/12			PROJECTIONS FOR NEXT QUARTER *			
SHIPMENTS * (as of 05/20/12)	2014 Goal	Q3	Cumulative	% Complete	End of 4th Qtr.	Cumulative by End of Qtr.	Cum. % Complete	
		Actual to Date	Actual to Date					
3,706 TRU Campaign	Volume (m3)	3706.0	204.4	449.8	12.1%	403.9	800.0	22%
	Drum Equivalents	17817.3	982.6	2162.7		1941.8	3846.2	
	Radioactivity (PE Ci)	41510.7	1584.2	10921.5	26%	9914.3	22500.0	54%

### 3,706 LANL TRU Campaign Performance

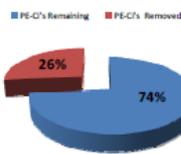
(Target = 3,706 m3; Remaining = 3,256 m3)



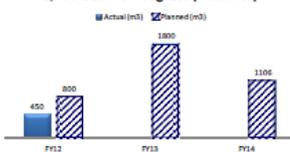
#### Parent vs. Shipped Volumes



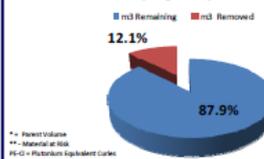
#### \*\*MAR Removal - Total Campaign



#### 3,706 Goal vs. Progress (Volumes)



#### 3,706 TRU Campaign Shipment Progress \*



\* - Parent Volume  
\*\* - Material at Risk  
PE-Ci - Plutonium Equivalent Curies



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# TRU Volume Table

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### WCRRF (High Activity Drum Line):

- During split shift operation, the repackaging line performed remediation on 158 drums, for a total of 490 drums since the beginning of the campaign.

### Building 412 (Box Line):

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### Dome 231 (Drums):

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### Central Characterization Project:

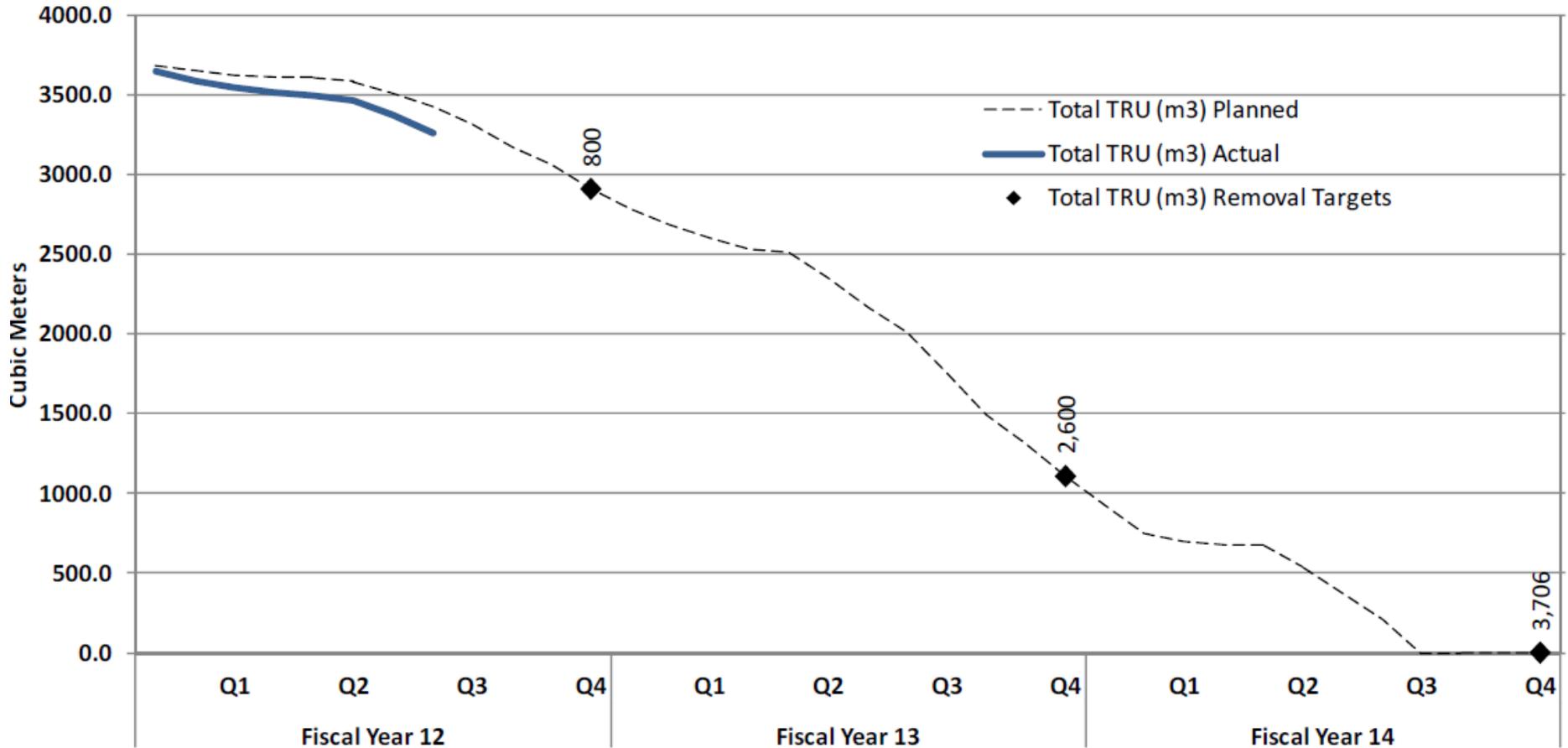
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# Work Off Curve

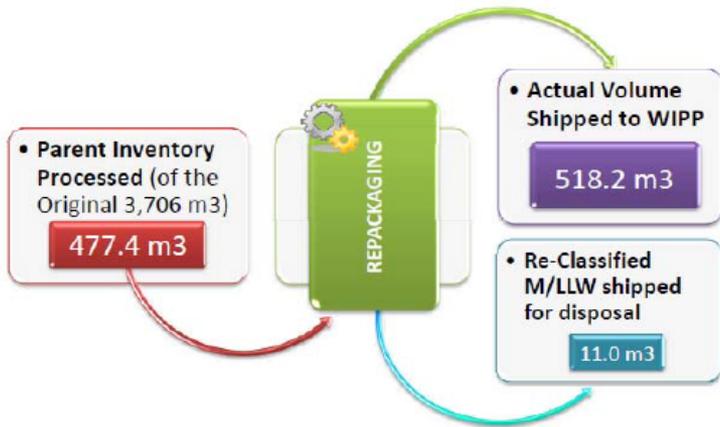
## 3,706 LANL TRU Campaign Performance

(Target = 3,706 m<sup>3</sup>; Remaining = 3,256 m<sup>3</sup>)



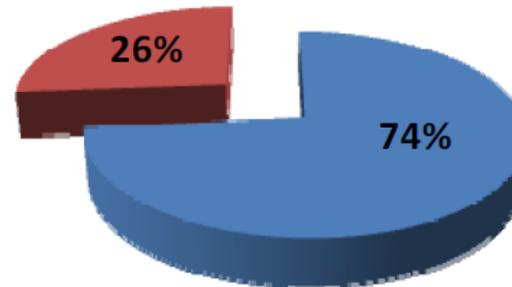
# Quarterly Reports to NMED

## Parent vs. Shipped Volumes



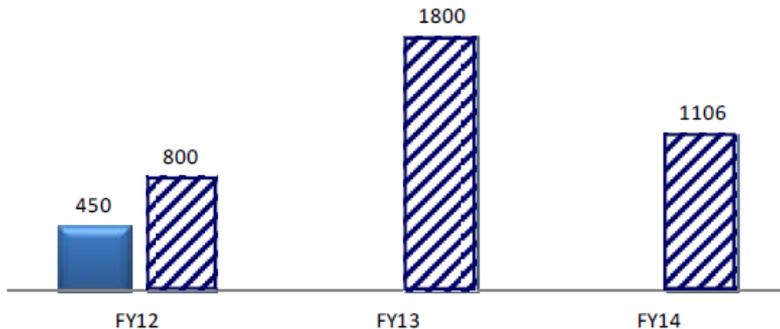
## \*\*MAR Removal - Total Campaign

■ PE-Ci's Remaining ■ PE-Ci's Removed



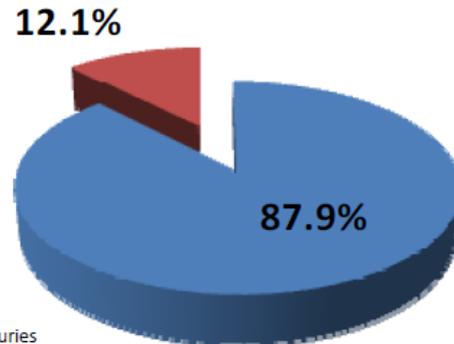
## 3,706 Goal vs. Progress (Volumes)

■ Actual (m3) ■ Planned (m3)



## 3,706 TRU Campaign Shipment Progress \*

■ m3 Remaining ■ m3 Removed



\* = Parent Volume  
 \*\* - Material at Risk  
 PE-Ci = Plutonium Equivalent Curies



# TA-54 Material Disposal Area G – Above Grade



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