

**From:** Steven Booth [REDACTED]  
**Sent:** Friday, November 18, 2011 9:52 AM  
**To:** Dimarzio, John A.  
**Cc:** jnisengard [REDACTED]; 'Isaacson, John'  
**Subject:** LANL Waste Management capacities  
**Attachments:** 966.1\_SRB LANL WM capabilities.docx

John:

Here is the WM table filled out. Lots of different units are used, but this should allow you to convert as needed for your uses.

Steve.

Steven R. Booth, Ph.D.  
AET-2, Process Modeling and Analysis  
Los Alamos National Laboratory

[REDACTED]  
MS-E548  
[REDACTED]

Facility Name	Capacity <i>(metric units)</i>	Status	Waste Type				
			Transuranic and Mixed Transuranic	Low-Level Radioactive	Mixed Low- Level Radioactive	Hazardous	Nonhazardous
<b>Treatment Facility</b>							
Waste Characterization, Reduction, and Repackaging (WCRR) Facility	n/a {1}	Operating	X				
Radioactive Assay and Nondestructive Test Facility	Five shipments/wk. 2011 average: 15 drums/shipment. 2010 average: 22 drums/shipment. {2}	Operating	X				
Decontamination and Volume Reduction System (Now called Building 412, located at Area G)	n/a {1}	Operating	X				
TRU drum preparation (TA-55 TRU waste drum loading)	800 drums/yr (55-gallon DOT Type 7A drums)	Operating	X				
Radioactive Liquid Waste Treatment Facility (RLWTF)	TRU: 70,000 liters/y LLW: 4.0 M liters/y {4}	Operating	X	X	X		
Replacement Radioactive Liquid Waste Treatment Facility	TRU: 29,000 liters/y {5} LLW: 5.0 M liters/y	Design	X	X	X		
High-Explosive Waste Treatment Facility (HEWTF)	TA-16 Open Burn: 20,000 lb/y; TA-36 + TA-39 Open Detonation: 15,000 lb/y {7}	Operating				X	
Sanitary Wastewater System (SWWS)	~0.3 M gallons/day average; design is 0.6 M gallons/day	Operating					X
Sanitary Effluent Reclamation Facility	Current: 140 acre-feet/y; upgrade is to 500 ac-ft/y	Operating					X
Los Alamos County Eco Station	Average tons per week (7 days): 940. {6}	Operating					X
<b>Storage Facility</b>							
TRU, hazardous, chemical, mixed and tritiated waste storage domes at TA-54 {3}	4,226,000 U.S. gallons capacity in drums	Operating	X	X	X	X	
Outside drum storage pad at TA-55, 55-455 {3}	135,000 U.S. gallons	Operating	X				
TRU storage building, TA-55-0185 {3}	30,000 U.S. gallons	Operating	X				
Transuranic Waste Facility	825 drum equivalents with 2- high stacking; 1,240 DE with 3- high stacking ("surge capacity")	Design	X				
<b>Disposal Facility</b>							
Low-level radioactive waste disposal cells, shafts and trenches in Area G	Zero. Last MDA G LLW pit will be filled this year.			X			

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Note: To convert cubic meters to cubic feet, multiply by 35.315; to convert liters to gallons, multiply by 0.26417.  
Source: LANL 2008a.

- {1} WCCRF and Building 412 are used only for legacy TRU waste repackaging. LANL waste acceptance criteria (WAC) require that newly generated TRU waste meet the WIPP WAC. Hence all newly generated waste, including that from SPD will be packaged correctly for shipment to WIPP and will not use WCCRF or DVRS.
- {2} Number of drums per shipment depends on weight and fissile loading.
- {3} Total capacity under the LANL RCRA permit for all domes and pads. Source: Gian Bacigalupa, 2010 LANL Hazardous Waste Facility Permit, Table J-1 "Active Portion of the Facility."
- {4} Current RLW capacity is about 20 gallons per minute (gpm). Assuming 6.5 hrs/day and 135 operating days per year, and converting to liters (dividing by 0.26417), gives 4.0M liters/y. Steve Hanson, personal communication, November 16, 2011.
- {5} Twenty-seven batches of 300 gallons each per year. Steve Hanson, personal communication, November 16, 2011.
- {6} Source: Los Alamos Transfer Station permit, "Table 2: Projected Daily Material Quantities," p. 3, September 2005. Monday – Friday: 176 tons/day; Weekend: 30 tons/day.
- {7} Source: "2009 Part A Permit Application," LA-UR-09-04027, June 30, 2009. Luciana Vigil-Holterman, personal communication, November 17, 2011.