CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Tom Blaine, Director
Environmental Health Division
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469

Dear Mr. Blaine:

Subject: Transmittal of 3,706 Transuranic Campaign Fiscal Year 2014 First Quarter Status Reports

Please find for your review the attached Los Alamos National Laboratory (LANL) 3,706 Transuranic (TRU) Campaign Status Report and the LANL Water Protection Status Report for the first quarter of Fiscal Year (FY) 2014.

As discussed in the past, maintaining public transparency in the 3,706 TRU Waste Campaign is of the utmost importance to the Department of Energy, Los Alamos Field Office. The attached quarterly status report will be highlighted from a link on the LANL website and available for the public’s review by January 15, 2014.

Also attached is a revised Fiscal Year 2013 Fourth Quarter report which has been revised to correct errors or omissions.

The site continues to make outstanding progress removing waste and reducing risk. The Lab has removed a cumulative total of 3,053.9 m$^3$ of waste as of the end of December 2013, exceeding the FY13 Campaign milestone of 3,008 m$^3$ by 45.9 m$^3$. That equates to 82 percent of the campaign’s Material at Risk being removed from the site, representing a significant risk reduction.

The Lab is also pleased to share that of the 473 containers of newly generated waste received in FY12 for disposal, only 14 (3 percent) remain to be shipped and of the 568 containers received in FY13, only 72 (13 percent) remain to be shipped.

We look forward to continued success of this important work for Los Alamos as well as the State of New Mexico. If you have any questions, please contact David Nickless of my staff at (505) 665-6448.

Peter Maggio
Assistant Manager
Environmental Projects Office

Enclosures
cc w/enclosures:
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Chief
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New Mexico Environment Department
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Records Center, NA-LA
Official Contract File, NA-LA

EPO-32DN-559-555434
LANL 3,706 TRU Campaign Status Report – FY13 4th Qtr. (July thru Sept. 2013) Revised 12/16/13

Processing Highlights

RANT (Shipping Facility):
- Completed 63 shipments this Quarter for a cumulative total of 615 shipments to WIPP since the beginning of the Campaign in October 2011.
- Shipped a cumulative total of 79% of the total Material at Risk (MAR) for the Campaign.

WCR8E (High Activity Drum Line):
- The repackaging line has performed remediation on 1,119 drum equivalents (DE’s) since the beginning of the Campaign.

Building 375 (Box Line):
- Throughout the Campaign, Box Line 375 has remediated 587.9 m3 of Legacy TRU Waste.
- Continued 24 hour operations during this quarter.

Dome 33 (Drum Venting):
- With completion of the drum venting for this Campaign during the 3rd Quarter of FY13, the LANL portion of the drum venting team was assigned to other 3,706 work.

Building 412 (Box Line):
- Throughout the Campaign, Box Line 412 has processed 576.4 m3. Completed retooling/start-up for drum processing.

Dome 231 (Box Line):
- Throughout the Campaign, Box Line 231 has processed 587.7 m3. Continued 24 hour operations and processing Hazard Category III boxes.

Central Characterization Project (CCP):
- Throughout the Campaign, CCP has fully characterized 15,255 containers to the WIPP Waste Acceptance Criteria.
- During the FY13 4th Qtr., the CCP fully characterized 1,101 containers.

Information Revised: Corrected to 415 shipments. Inadvertently included 1 shipment to Idaho.

TRU Volume Removed

<table>
<thead>
<tr>
<th>FY2012 thru 09/30/13</th>
<th>PROJECTIONS FOR NEXT QUARTER *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>FY2013 Q4 Actual to Date</td>
</tr>
<tr>
<td>3,706 TRU Campaign</td>
<td>3706.0</td>
</tr>
<tr>
<td>Drum Equivalents</td>
<td>17817.3</td>
</tr>
<tr>
<td>Radioactivity (PE-CI)</td>
<td>41064.7</td>
</tr>
</tbody>
</table>

Information Revised: Corrected from 41,510.7

3,706 LANL TRU Campaign Performance
(Target = 3,706 m3; Remaining = 960 m3)

Parent vs. Shipped Volumes

Information Revised: Drum Equivalents (DE) were miscalculated on original submission. The corrected DE are shown above.

MAR Removal - Total Campaign

Information Revised: 4th Qtr. data did not include classified waste shipments. Data has been corrected.

3,706 Goal vs. Progress (Volumes)

Information Revised: Rounding error.

3,706 TRU Campaign Cumulative Progress

Information Revised: 4th Qtr. data did not include classified waste shipments. Data has been corrected.

FY12 Newly Generated

Information Revised: 4th Qtr. data did not include classified waste shipments. Data has been corrected.

FY13 Newly Generated

Information Revised: 4th Qtr. data did not include classified waste shipments. Data has been corrected.

### Processing Highlights
- **RANT/Shipping Facility:**
  - Completed 42 shipments this Quarter for a cumulative total of 457 shipments to WIPP since the beginning of the Campaign in October 2011.
  - Shipped a cumulative total of 82% of the total Material at Risk (MAR) for the Campaign.
- **WCR (High Activity Drum Line):**
  - The repackaging line has performed remediation on 1,263 drum equivalents (DE’s) since the beginning of the Campaign in October 2011.
- **Building 375 (Box Line):**
  - The Box Line 375 has remediated 697.7 m3 of Legacy TRU Waste since the beginning of the Campaign in October 2011.
  - Continued 24 hour operations during this quarter.
- **Dome 33 (Drum Venting):**
  - With completion of the drum venting for this Campaign during the 3rd Quarter of FY13.

### TRU Volume Removed

<table>
<thead>
<tr>
<th>SHIPMENTS * (as of 12/29/13)</th>
<th>2014 Goal</th>
<th>2012 Actual</th>
<th>2013 Actual</th>
<th>FY2014 Q1</th>
<th>Cumulative Actual to Date</th>
<th>% Complete</th>
<th>Planned Cumulative at End of Quarter</th>
<th>Cumulative % Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,706 TRU Campaign</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume (m3)</td>
<td>3706.0</td>
<td>920.1</td>
<td>1827.4</td>
<td>306.4</td>
<td>3053.9</td>
<td>82%</td>
<td>3170.5</td>
<td>86%</td>
</tr>
<tr>
<td>Drum Equivalents</td>
<td>17817.3</td>
<td>4423.3</td>
<td>8785.6</td>
<td>1473.2</td>
<td>14682.2</td>
<td>82%</td>
<td>15242.8</td>
<td>86%</td>
</tr>
<tr>
<td>Radioactivity (PE Ci)</td>
<td>41084.7</td>
<td>23075.2</td>
<td>8278.0</td>
<td>2338.1</td>
<td>33691.2</td>
<td>82%</td>
<td>35438.2</td>
<td>86%</td>
</tr>
</tbody>
</table>

### 3,706 LANL TRU Campaign Performance
(Target = 3,706 m3; Remaining = 652 m3)

**MAR Removal - Total Campaign**
- PE Ci Removed: 18%
- PE Ci Remaining: 82%

**FY12 Newly Generated**
- Containers shipped (469): 97%
- Containers remain to ship (14): 3%

**FY13 Newly Generated**
- Containers shipped (496): 87%
- Containers remain to ship (72): 13%

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*Parent vs. Shipped Volumes*

- Parent Inventory Processed (3,706 m3): 908.1 m3
- TRU Waste Dispositioned: 1,920.6 m3
- Non-TRU Waste Dispositioned: 1,056 m3

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

<table>
<thead>
<tr>
<th>FY13</th>
<th>FY12</th>
<th>FY11</th>
<th>FY09</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>187</td>
<td>1800</td>
<td>1208</td>
</tr>
</tbody>
</table>

**Note:** Volumes and percentages are rounded to nearest whole number.
**Groundwater Protection**

*An event is a single-screen well location, each individual well screen for multiscreen wells, spring, or base-flow location.*

**San Ildefonso locations included in both the IFGMP and San Ildefonso MOU are identified as San Ildefonso locations for this report.**

FY13, 4th Quarter (Jul-Sep) Analytical Summary: Analysis of the 84 groundwater samples collected this quarter provided 18,562 analyte measurements of which no new exceedances were confirmed to be from a Los Alamos National Laboratory (LANL) source (FY14, 1st quarter analytical results are pending.)

First Quarter Sampling Event Deviation Explanations:

1. IFGMP: R-2B and R-42 sampling was offline because of aquifer tests. Sandia Spring was frozen; and Spring 2 had snowmelt interference.
2. San Ildefonso: Not scheduled in the 1st quarter.
3. City of Santa Fe: Sampling canceled as requested by the City of Santa Fe.
4. Los Alamos County: One well (PM-4) was not operating.

**Surface Water Protection**

- **Days with measured flow** at any LANL gage station (>5 cubic feet per second [cfs])
- **Days with measured flow** at LANL boundary stations E050.1, E060.1, E126, E226, E265, E267, E279, and E239 (>5 cfs)
- **Days with measured flow** at Buckman Early Notification Stations E050.1 and E060.1 (>5 cfs) from LANL watersheds.

**Notes:**

1. Several gage stations were damaged by the September 13, 2013, flood and are being repaired.
2. Flow greater than 5 cfs was recorded for 70 days at gage station E123 below the Sandia Canyon wetland because of construction dewatering and is not representative of natural conditions. Thus, it is not included in the graph.
3. Two days of flow greater than 5 cfs were recorded at Buckman Early Notification Station E050.1 because of the release of water from the Los Alamos Canyon reservoir.

**Chromium Project Metrics**

(FROM 4 p.m. Friday through 4 p.m. the following Friday)

Notes:

1. Through the end of FY14, 1st quarter, a total of 12.37 lb of chromium was removed from the 3.9 million gallons of groundwater extracted from the aquifer below Muntzard Creek.
2. Pumping is suspended for the winter and will resume during spring 2014.