WIPP Update

Council of State Governments – Mid Western Region
Radioactive Materials Transportation Committee
Carlsbad, New Mexico

December 6th, 2011

William B. Mackie
Institutional Affairs Manager
U.S. Department of Energy
Carlsbad Field Office
Total Shipments (as of November 14, 2011)

Contact Handled 9,627

Remote Handled 531

Total 10,158
<table>
<thead>
<tr>
<th>Site</th>
<th>Shipments</th>
<th>Loaded Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argonne National Laboratory</td>
<td>120</td>
<td>205,773</td>
</tr>
<tr>
<td>Bettis Atomic Power Laboratory</td>
<td>5</td>
<td>10,955</td>
</tr>
<tr>
<td>GE Vallecitos Nuclear Center</td>
<td>32</td>
<td>44,800</td>
</tr>
<tr>
<td>Idaho National Laboratory</td>
<td>5,019</td>
<td>6,983,664</td>
</tr>
<tr>
<td>Los Alamos National Laboratory</td>
<td>894</td>
<td>305,748</td>
</tr>
<tr>
<td>Lawrence Livermore National Laboratory</td>
<td>18</td>
<td>24,804</td>
</tr>
<tr>
<td>Nevada Nuclear Security Site</td>
<td>48</td>
<td>57,312</td>
</tr>
<tr>
<td>Oak Ridge National Laboratory</td>
<td>129</td>
<td>173,247</td>
</tr>
<tr>
<td>Rocky Flats Environmental Technology Site</td>
<td>2,045</td>
<td>1,446,444</td>
</tr>
<tr>
<td>Hanford Site</td>
<td>572</td>
<td>1,034,176</td>
</tr>
<tr>
<td>Savannah River Site</td>
<td>1,276</td>
<td>1,934,504</td>
</tr>
<tr>
<td>Total to WIPP</td>
<td>10,158</td>
<td>12,221,427</td>
</tr>
</tbody>
</table>
TRU Waste Projected Shipping Activity

(August 2011 through July 2012)

<table>
<thead>
<tr>
<th>Generator Site</th>
<th>To WIPP</th>
<th>Intersite – INL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argonne National Laboratory</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Bettis Atomic Power Laboratory</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Hanford Site</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Idaho National Laboratory</td>
<td>688</td>
<td></td>
</tr>
<tr>
<td>Los Alamos National Laboratory</td>
<td>215</td>
<td></td>
</tr>
<tr>
<td>Oak Ridge National Laboratory</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Sandia National Laboratories</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>Savannah River Site</td>
<td>215</td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>1,192</td>
<td>3</td>
</tr>
</tbody>
</table>
Small Quantity Sites Update

• All Small Quantity Site shipments have been completed except for SNL.

• Proposed Schedule to Finish Small Quantity Sites:
  – SNL: Ship RH waste to WIPP in December 2011/January 2012
First TRUPACT-III (Unit 1) shipment arrived at the WIPP site on August 26th.

Future shipments are scheduled for approximately every nine days.

Delivery Schedule for remaining units:
- Unit 2 – Delivery to SRS on December 24, 2011
- Unit 3 – Delivery to SRS on January 20, 2012
- Unit 4 – Delivery to SRS on March 9, 2012
- Unit 5 – Delivery to SRS on March 17, 2012
- Unit 6 – Delivery to SRS on April 22, 2012

Biggest Lesson Learned had to do with loading. The Standard Large Box 2 (SLB2) must be centered on the pallet in order to get the door on the TRUPACT-III.
## Incidents/Accidents
### May 2011 – September 2011

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Day</th>
<th>Tractor</th>
<th>Event type</th>
<th>Other Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>5 (May)</td>
<td>17</td>
<td>C27</td>
<td>ABS lamp OOS</td>
<td>Inspector at Raton POE placed vehicle OOS and issued driver violation after driver had repaired lamp. CAST is protesting violation.</td>
</tr>
<tr>
<td>2011</td>
<td>5 (May)</td>
<td>18</td>
<td>V14</td>
<td>Route deviation</td>
<td>Unauthorized route deviation in Washington State. (D. Furse, 1st offense) WMTD escorted back on route.</td>
</tr>
<tr>
<td>2011</td>
<td>5 (May)</td>
<td>19</td>
<td>V12</td>
<td>Tractor Repair</td>
<td>Tractor experienced fault code for low coolant sensor. Found to be bad wire. Truck repaired and continued shipment.</td>
</tr>
<tr>
<td>2011</td>
<td>5 (May)</td>
<td>20</td>
<td>C26</td>
<td>Tractor Repair</td>
<td>Tractor had turbo problems and was sent to repair shop for repairs prior to loading shipment. Caused 24 hr delay of loaded shipment.</td>
</tr>
<tr>
<td>2011</td>
<td>6 (Jun)</td>
<td>1</td>
<td>C26</td>
<td>CMR notifications</td>
<td>CMR failed to make 2 hour notification call to Idaho.</td>
</tr>
<tr>
<td>2011</td>
<td>6 (Jun)</td>
<td>27</td>
<td>414</td>
<td>Route Deviation</td>
<td>May 18, 2011, Visionary Solutions, LLC (VS) had a Route Deviation out of the Hanford, Washington site. The shipment was traveling southeast on I-182. As the driver was approaching I-82 west and I-82 south off of I-182, he failed to exit on I-82 south and exited on I-82 west instead. This error caused a route deviation of approximately 3 miles on I-82 west. At that point the CMR contacted the Shipment and assisted the driver in returning the shipment to the correct route.</td>
</tr>
<tr>
<td>2011</td>
<td>7 (Jul)</td>
<td>12</td>
<td>C24</td>
<td>DOE Notification</td>
<td>While driving south on I-25, the WIPP driver noticed a piece of road debris (wood) in his lane of travel. He could not safely avoid it; the wood hit a brake chamber on the trailer causing a large air leak. He stopped immediately and made the proper notifications. Mechanics were dispatched and the repairs were completed and shipment continued.</td>
</tr>
<tr>
<td>2011</td>
<td>8 (Aug)</td>
<td>25</td>
<td>V18</td>
<td>Route Deviation</td>
<td>August 24, 2011 Route deviation occurred at the I 86 &amp; I 84 interchange in Idaho. The driver was approaching I-84 and failed to take the proper exit. The driver was unaware that he had taken the incorrect exit and traveled approximately 10 miles. At this point he was contacted by the CMR and stopped to wait for instructions on returning to the correct route. The driver was directed to continue on to the next exit and turn around heading back to the correct route. This was approximately 4 miles, at that point the shipment traveled back to the I 84 exit and returned to the correct route.</td>
</tr>
<tr>
<td>2011</td>
<td>9 (Sep)</td>
<td>26</td>
<td>41-H-151A</td>
<td>Trailer Tire Damage</td>
<td>Damage to driver side rear tires of Trailer V-378, this occurred during movement of empty trailers from the CH parking area unit to the site parking lot. Note that this incident was not one of the contract carriers but WTS waste handlers pulling the trailer.</td>
</tr>
</tbody>
</table>
Lessons Learned

Route Deviations:

• Carriers should consider obtaining “turn-by-turn” navigation systems for tractors

• Consider video taping all routes to include exit signs for training purposes
Response to 2011 Biennial Review

• Bad Weather and Road Conditions
  – Action: DOE should consider allowing sufficient time for trucks already in safe parking to be released before dispatching additional shipments if there is a likelihood that the new shipments would catch up to those already in safe parking.
  – Response: Normally, we attempt to ensure that cases like this do not occur.

• Safe Parking
  – Action: DOE needs to continue to communicate frequently with the states when WIPP trucks are entering or leaving safe parking.
  – Response: CMR routinely communicates with the State Dispatch Centers when WIPP trucks are in Safe Parking.
• Advance Notice and Shipment Tracking

  – Action: DOE should modify the 8 week schedule by adding another column so that the old (original) shipment date may be shown as well as the new revised shipment date that is going to be used, making the 8-week schedule more helpful.

  – Response: When modifications are issued both the original and new shipping dates and times are indicated on the revision.

  – Action: Given the reliance by most states on the 8-week schedule, DOE needs to continue sharing this detailed schedule with the state contacts.

  – Response: The detailed schedule is shared with all operational personnel. DOE will continue considering requests to be added to this distribution list.
• Medical Preparedness

  – Action: DOE should have its medical training provided by medical professionals who have hands on experience similar to that of most emergency response RNs and MDs.

  – Response: We have four instructors each of which have greater than 20 years emergency response experience. The two instructors that present this course are experienced EMTs who have excessive firefighter and hazmat experience.

  – Action: DOE should have its medical courses certified so that attendees receive Continuing Education credits.

  – Response: As I reported six months ago, the courses offered by WIPP are either accredited or are undergoing the accreditation process. To date:

    • The Emergency Nurses Association has accredited our courses for 7.25 contact hours.
    • The American Society of Radiological Technologists have accredited our courses for 8 continuing education credits.
    • The Continuing Education Coordinating board of Emergency Medical Services has accredited our courses for 7.0 continuing education hours.
• Security Plan

  – Action: DOE needs to identify communication problems that occurred related to the Wyoming incident and convey those to the states.

  – Action: DOE needs to take appropriate internal actions as far as changing procedures or other actions to prevent similar occurrences in the future.

  – Response: The DOE-CBFO Security Officer addressed this incident at the NTSF meeting held earlier this year. At that time, he recommended the formation of a Security Sub-Committee to standardize a protocol to be used in cases like this. To date, this has not been scheduled.

• Emergency Training and Exercises

  – Action: DOE needs to increase the availability of MERRTT Technician Level courses.

  – Action: DOE needs to engage the regional groups when developing or modifying training courses to give them a chance to comment prior to the new/modified training being offered to responders.

  – Response: These actions refer to training offered through TEPP and not WIPP.
Budget Guidance Update

• Once issued, Budget Guidance will follow recommendations made by the NTSF Financial Guidance Working Group.

• Budget Guidance will **not** be issued until Guidance is received from Headquarters.

• Anticipate issuance sometime in early CY 2012.
Bad Weather Data Collection

• Nothing has been done with this item as the M&O Contract is currently being rebid

• Once a new contract has been awarded, a change order to the contract will be considered to task the contractor with collecting this data.

• In the meantime, States can collect their own data, have it compiled and submit it to DOE-CBFO. DOE-CBFO will then review the data and indicate whether Safe Parking was used during any of the periods reported.
TRU Waste Transportation Plan

- Plan Complete

- Distributed in early August 2011

- Plan on making annual page changes. Anticipate call for changes in early 2012.
Public Information Update

• Strategic Communications Plan
  – Strategic Communications Plan draft is ongoing
  – A courtesy copy will be provided when it is finalized and available

• New Fact Sheets
  – WTS, our M&O contractor, is working on revising all fact sheets.
  – The TRUPACT-III has been added to the existing Transportation fact sheet

• Web Site Revision
  – Updated photos are currently being incorporated into updates being made to the Web Site
Proposed Route Closures

• The following routes are being considered for closure:

  – The southern route in California (I-5) to I-40 and all of I-40 from Barstow, CA to Albuquerque, NM

  – In Nevada, US-95 and NV-6 from the Nevada Nuclear Security Site to I-80

  – In the Northeast, the NRD route to INL (I-94, I-79, I-70, and I-74 to I-80). Covers the states of New York, portions of Pennsylvania, Ohio, portions of Illinois and Indiana. Additionally, the Bettis route to WIPP (I-70, I-79 and I-68) covering the states of Pennsylvania, West Virginia, Maryland and portions of Virginia
Texas:

- A request has been submitted to the State requesting the use of TX-176 from Big Spring, TX to the TX/NM State Line.

- CBFO currently awaiting a decision from the State.
• New Mexico:
  – CBFO currently has three requests before the State Roads commission:
    • Use of NM-31 from US-285 to NM-128 and the WIPP South Access Road.
    • Use of NM-176/US-18 and NM-128 from TX/NM State Line to the WIPP South Access Road.
    • Use of NM-31 from US-62/180 to NM-128 and the WIPP South Access Road. This alternative will be used during periods of construction on the North Access Road.
Training

- During the past year, we have trained 877 First Responders in the Southern States.

- Courses are now certified so that attendees can receive Continuing Education Credits, as follows:
  - 7.5 contact hours from Emergency Nurses Association
  - 8.0 continuing education credits from American Society of Radiological Technologists
  - 7.0 continuing education units from Continuing Education Coordinating Board of Emergency Medical Services

- New Team Lead for WTS External Emergency Management:
  Marsha Beekman
  575-234-8487
Planned WIPPTREXs

- **Western States:**
  - Acoma/Laguna will be holding a TEPP exercise on September 28th on the Laguna Pueblo.
  - Shoshone-Bannock Tribes have started initial discussions on having a nighttime exercise on their reservation next year.

- **Southern States:**
  - The State of Georgia will be holding a WIPPTREX next April.

- **Council of State Governments**
  - There are no exercises scheduled.
Questions?