WIPP Update
SSEB, Nashville, TN
December 7th, 2017
• Emplacement rates are 5-6 shipments per week.
• The goal is to continuing to ramp-up emplacements in FY18.
• Emplacement ramp-up depends on:
  • Altering Work Shifts
  • Efficiencies with operational experience
  • Adequate ventilation is available for all underground activities
Projected Waste Emplacement Rates FY17-26

WASTE EMPLACEMENT RATES
(FY17 - FY26)

FISCAL YEAR

SHIPLMENTS PER WEEK

- FY17
- FY18
- FY19
- FY20
- FY21
- FY22
- FY23
- FY24
- FY25
- FY26

- START PANEL 8 MINING
- SVS STARTUP
- PANEL 7 FULL
- PANEL 8 COMPLETED
### Projected Shipments Aug 17-18

**PROJECTED SHIPMENTS**  
(August 17 - August 18)

<table>
<thead>
<tr>
<th>SITE</th>
<th>SHIPMENTS</th>
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<tbody>
<tr>
<td>IDAHO</td>
<td>170</td>
</tr>
<tr>
<td>LOS ALAMOS</td>
<td>20</td>
</tr>
<tr>
<td>OAK RIDGE</td>
<td>40</td>
</tr>
<tr>
<td>SAVANNAH RIVER</td>
<td>10</td>
</tr>
<tr>
<td>WASTE CONTROL SPECIALISTS</td>
<td>18</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>258</strong></td>
</tr>
</tbody>
</table>
Shipping Assumptions

SHIPMENT PLANNING ASSUMPTION (FY18 – FY23)

<table>
<thead>
<tr>
<th>Year</th>
<th># of Shipments</th>
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<tbody>
<tr>
<td>FY18</td>
<td>250</td>
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<tr>
<td>FY19</td>
<td>294</td>
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<tr>
<td>FY20</td>
<td>389</td>
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<tr>
<td>FY21</td>
<td>383</td>
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<tr>
<td>FY22</td>
<td>622</td>
</tr>
<tr>
<td>FY23</td>
<td>736</td>
</tr>
</tbody>
</table>

Fiscal Year
Shipment Milestones

- **100^{th}** Shipment since resumption of shipping, week of November 4^{th}.
- **12,000^{th}** Shipment since WIPP Start-Up, week of November 16^{th}.

- LANL – 1^{st} Shipment, November

- **Additional Sites in next few years:**
  - Lawrence Livermore National Laboratory
  - Sandia National Laboratory
  - Argonne National Laboratory
Shipping and Emplacement Considerations

- **WIPP Emplacement Rate**
- **Bolting stops emplacement**
- **Contamination in Panel 7**
- **Some waste must go on top of other containers**
- **Shipping limits on weight, vent times, etc.**
- **May limit receipt of other waste**
- **Resource Levels Determined by Funding**
- **Must mix other waste with high VOC waste**
- **Waste Handling Systems**
- **Ground Control**
- **RADCON**
- **Toppers**
- **VOCs**
- **DOT**
- **Security**
- **Budget**

**Waste Handling Systems**
- Must mix other waste with high VOC waste

**Ground Control**
- Bolting stops emplacement

**RADCON**
- Contamination in Panel 7

**Toppers**
- Some waste must go on top of other containers

**DOT**
- Shipping limits on weight, vent times, etc.

**Security**
- May limit receipt of other waste

**WIPP**
- Emplacement Rate

**Budget**

**VOCs**
- Resource Levels Determined by Funding

**Maintenance**

**Waste Handling Systems**

**Emplacement**

**Shipping limits**
- on weight, vent times, etc.
Questions?