WIPP Update
CSG Midwest, Cincinnati OH
December 13th, 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)

- FY17: Start Panel 8 Mining
- FY18: SVS Startup
- FY19: Panel 7 Full
- FY22: Panel 8 Completed

Shipments per Week:
- 2
- 4
- 6
- 8
- 10
- 12
- 14
- 16
- 18
- 20

Fiscal Year:
- FY17
- FY18
- FY19
- FY20
- FY21
- FY22
- FY23
- FY24
- FY25
- FY26
## Projected Shipments Aug 17-18

<table>
<thead>
<tr>
<th>SITE</th>
<th>SHIPMENTS</th>
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</thead>
<tbody>
<tr>
<td>IDAHO</td>
<td>170</td>
</tr>
<tr>
<td>LOS ALAMOS</td>
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</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>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>258</strong></td>
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</table>
Shipping Assumptions

SHIPMENT PLANNING ASSUMPTION (FY18 – FY23)

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

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

• LANL – 1\textsuperscript{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**
  - Budget
  - Security
  - DOT
  - Toppers
  - RADCON
  - Ground Control
  - Maintenance
  - Waste Handling Systems
  - VOCs
  - Must mix other waste with high VOC waste
  - Resource Levels Determined by Funding
  - 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

- **Safety**
- **Performance**
- **Cleanup**
- **Closure**

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Questions?