Idaho Cleanup Project
Congressional Nuclear Cleanup Caucus

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The Idaho Site Background

- 890 Square Miles
- Remote location in the southeast region of Idaho
- Established in 1949 as the Naval Gunnery Range
  - Currently referred to as the **Idaho National Laboratory**
- Provided an isolated location where 52 first-of-a-kind test reactors could be designed, built and tested with one still in operation (Advanced Test Reactor)
- EM’s **Idaho Cleanup Project** conducts its business within the boundary of the Idaho National Laboratory
- The **Idaho Site mission is divided into three contracts**:
  - **Idaho Cleanup Project** - managed by the Office of Environmental Management
  - **Advanced Mixed Waste Treatment Project** – managed by the Office of Environmental Management
  - **Idaho National Laboratory** – managed by the Office of Nuclear Energy (Lead Program Secretarial Office)
EM-Idaho’s Mission & Priorities

• Maintain a safe, secure, and compliant posture in the EM complex

• Complete High Level Waste tank treatment and closure

• Disposition remote and contact handled transuranic waste pursuant to the Idaho Settlement Agreement

• Continue soil and groundwater remediation

• Complete excess facility deactivation and decommissioning

• Receive foreign and domestic research reactor fuel in support of nonproliferation goals

• Continue safe spent fuel storage
Cleanup was focused at six major geographic areas, now only three:

- **Advanced Test Reactor Complex**
  - cleanup completed

- **Power Burst Facility (PBF)**
  - cleanup completed

- **Test Area North (TAN)**
  - Soil cleanup completed
  - Decontamination & Decommissioning completed

- **Idaho Nuclear Technology and Engineering Center**

- **Radioactive Waste Management Complex**

- **Materials and Fuels Complex**

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**Idaho Nuclear Technology & Engineering Center**

- Deactivate & Demolish (D&D) all facilities and structures that have no future mission
  - Complete the Resource Conservation and Recovery Act (RCRA) closure of the final four High Level Waste Tanks (resulting in RCRA closure of all 15 tanks in Idaho)
  - Complete treatment and disposition of remaining RH – TRU waste containers
    - Transfer EBR II Spent Nuclear Fuel to MFC

**Advanced Test Reactor Complex (Completed)**

- Complete D&D of all EM facilities and structures
- Complete all CERCLA Remediation work

**Power Burst Facility (Completed)**

- Completed D&D of EM facilities

**Radioactive Waste Management Complex** (location of the Advanced Mixed Waste Treatment Project)

- Complete Disposition of 65,000 m³ of stored TRU waste (53,000+ m³ completed)
- Complete exhumation of 5.69 acres of targeted buried waste (3.22 acres completed)

**Test Area North**

- Completed D&D of all EM facilities and structures
- Complete CERCLA remediation work
  - Complete ground water remediation

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**Materials and Fuels Complex**

- Completed retrieval of RH – TRU waste transfer to INTEC
  - Complete D&D of EBR-II Reactor Complex
**Idaho Site Funding**

<table>
<thead>
<tr>
<th>Appropriation</th>
<th>FY 2014 Current</th>
<th>FY 2015 Cong. Request</th>
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</thead>
<tbody>
<tr>
<td>Defense Environmental Cleanup</td>
<td>387,000</td>
<td>367,203</td>
</tr>
<tr>
<td>Non-Defense Environmental Cleanup</td>
<td>4,993</td>
<td>4,900</td>
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<tr>
<td><strong>Total, Idaho</strong></td>
<td><strong>391,993</strong></td>
<td><strong>372,103</strong></td>
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**FY 2015 Request**

- **Transuranic and Mixed / Low-Level Waste Disposition** $191,800
  - Process, ship contact-handled / remote-handled TRU Waste
  - Continue disposition of mixed low-level and low-level waste out of Idaho

- **Soil and Groundwater Remediation** $75,443
  - Continue ground water remediation activities
  - Continue exhumation of targeted buried waste

- **Radioactive Tank Waste Stabilization and Disposition** $84,650
  - Complete sodium-bearing waste operations and work towards RCRA closure of INTEC Tank Farm

- **Spent Nuclear Fuel** $17,300
  - Continue Spent Nuclear Fuel operations and facility management

- **Community and Regulatory support - $2,910**
  - Community and Regulatory Support Activities

**Dollars in thousands**
Safety in Idaho

Idaho Cleanup Project

- Reduced recordable injuries by 70 percent since contract inception (May 2005)
- Voluntary Protection Program (VPP) Star of Excellence
- VPP Legacy of Stars

Advanced Mixed Waste Treatment Project

- Zero Accidents or Lost Time Injuries since October 2011
- Employees achieved 15 million hours worked without a lost time injury on December 7, 2013
- VPP Star of Excellence
Accomplishments

• Exhumed 3.24 acres of targeted buried waste out of a total 5.69 acres
• Completed targeted buried waste exhumations in the first six Accelerated Retrieval Project (ARP) facilities (from a total of 9 facilities)
• Completed Deactivation and Demolition of ARP-I and ARP-VI to make way for the construction of the final ARP-IX facility
• Transferred EM used nuclear fuel from wet to dry storage
• Completed CERCLA ordnance remediation at the Idaho site covering over 208,000 acres
• Pursuant to the Idaho Settlement Agreement, completed disposition of over 53,000 m³ of transuranic waste from 65,000 m³
• Idaho retained its status as the largest shipper of CH-TRU and RH-TRU waste to WIPP, over 49% of all shipments to WIPP come from Idaho
In Support of the Cleanup Mission

• Complete processing of the remaining 900,000 gallons of High Level Waste by December 31, 2014

• Remain the largest shipper of transuranic waste to WIPP in support of the Idaho Settlement Agreement

• Continue the transfer of used nuclear fuel from wet to dry storage pursuant to the Idaho Settlement Agreement

• Continue the retrieval, processing, and shipment of targeted buried waste from the Subsurface Disposal Area to protect the Snake River Plain Aquifer

• Continue compliance with the Idaho Settlement Agreement
Technical Challenges

• Complete the processing of the remaining 900,000 gallons of tank waste by December 31, 2014

• Complete the Advanced Mixed Waste Treatment Project mission by the end of 2018

• Maintain acceptable performance against regulatory milestones

Personnel donning PPE for entry into the tank farm

Pyrophoric material encountered during transuranic waste processing at AMWTP
Idaho is a Sound Investment

• We continue to maintain excellent rapport with our Regulators through timely successful completion of regulatory milestones and open communications

• We receive outstanding support from our Tribal Nations and local stakeholders through up front communications and involvement

• Idaho’s performance has proven that substantial cleanup progress can be achieved within cost and ahead of schedule

• Idaho provides successful results with a priority on safety and a value to the taxpayer

• Idaho’s work is essential to the health of our local communities and in the protection of the environment