EM Transportation Update

Demitrous Blount
Office of Packaging and Transportation
Office of Environmental Management

SSEB Joint Radioactive Materials Transportation Committee Meeting
December 11, 2019
Discussion Topics

- Environmental Management (EM) Cleanup
  - DOE and EM Organization
  - 30 Year Anniversary of EM
  - Budget
- Site Updates
- Update on the Office of Packaging and Transportation
  - Mission
  - Activities
DOE and EM Organization
30 Year Anniversary

KEY MILESTONES

- OCTOBER 1989
  EM created as the Office of Environmental Restoration and Waste Management

- JUNE 1996
  PUREX deactivated, becoming the first large-scale deactivation of a nuclear processing facility in the U.S.

- JULY 1997
  First radioactive waste storage tank closed at the Savannah River Site

- MAY 1999
  First shipment of waste received at the Waste Isolation Pilot Plant

- OCTOBER 2005
  Rocky Flats Site closed

- OCTOBER 2006
  Fernald Site closed

- JANUARY 2008
  Mound Site closed

- AUGUST 2019
  Physical Completion of Separations Process Research Unit at the Knolls Atomic Power Laboratory

THANK YOU FOR 30 YEARS OF EXCELLENCE
EM has Six Primary Mission Areas

<table>
<thead>
<tr>
<th>EM Sites</th>
<th>FY 20 ($M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savannah River</td>
<td>1,643</td>
</tr>
<tr>
<td>River Protection</td>
<td>1,392</td>
</tr>
<tr>
<td>Richland</td>
<td>718</td>
</tr>
<tr>
<td>Idaho</td>
<td>348</td>
</tr>
<tr>
<td>Oak Ridge</td>
<td>429</td>
</tr>
<tr>
<td>Portsmouth</td>
<td>426</td>
</tr>
<tr>
<td>Paducah</td>
<td>277</td>
</tr>
<tr>
<td>Carlsbad</td>
<td>398</td>
</tr>
<tr>
<td>Los Alamos</td>
<td>195</td>
</tr>
<tr>
<td>West Valley</td>
<td>78</td>
</tr>
<tr>
<td>All Others</td>
<td>565</td>
</tr>
</tbody>
</table>

**Special Nuclear Materials & Spent Nuclear Fuel**
- $528M / 8%

**TRU & Solid Waste**
- $894M / 14%

**Soil & Groundwater**
- $398M / 6%

**Radioactive Tank Waste**
- $2,390M / 37%

**Facility D&D**
- $1,232M / 19%

**Site Services**
- $1,027M / 16%

**EM’s FY 2020 Congressional Budget Request - $6.469 Billion Total**

Site Updates
Progress Through Action in Kentucky

Kentucky ($277M)

Paducah

- Initiate characterization activities in C-333 Process Building (2nd of four gaseous diffusion plant buildings) to determine amounts and locations of uranium deposits for removal
- Complete characterization in C-331 Process Building to facilitate uranium deposit removal and subsequent declaration of Criticality Incredible
- Complete demolition of C-400 Cleaning Building, 116,140 ft² building used to clean uranium enrichment process equipment and located over source of offsite groundwater plume
- Conduct uranium deposit removal in C-331 Process Building to achieve Criticality Incredible and reduce surveillance and maintenance costs
- Reduce Limited Area footprint from ~750 to ~615 acres to reduce project costs associated with Safeguards and Security requirements
- Operate Depleted Uranium Hexafluoride (DUF6) conversion facility with expected cumulative converted total of 59,000 metric tons (~11% of initial inventory)
Update on the Office of Packaging and Transportation
The Office of Packaging and Transportation protects people and the environment by ensuring safe, compliant, and efficient packaging and transportation of materials critical to successful Department operations. We achieve this mission by conducting packaging and transportation assessments and oversight; assisting field sites; and developing, managing, and advocating policies, orders, guidance and tools in accordance with DOE requirements and government regulations.
Update on Order Revision

DOE Order 460.2A, *Departmental Material Transportation and Packaging and Management*, Revision Update:

- Prior input from Tribes and States was considered at every stage.
- Subgroups worked with field packaging and transportation subject matter experts to develop specific requirements in each topical area.
- Integrated Project Team plans to complete draft revision early 2020.
- Review and comment process will be used in accordance with DOE Order 251.1D.
Annual Meeting May 18-21, 2020:
- Embassy Suites – Scottsdale, AZ
- WGA Co-hosting with DOE

Planning Committee:
- Charter approved 30 September
- Management Plan updates pending
- Communications AHWG suspended until further notice
  - Will still publish NTSF Newsletter (next iteration January 2020)
Contact for Additional Information

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