EM FY 2012
Presidential Budget Request
Leveraging strategic investments to meet compliance and maintain cleanup momentum

Environmental Management: A National Responsibility

- We reduce risks and protect our workers, our communities and the environment through cleanup

- Our work is urgent and essential to the health and economic vitality of our communities and the nation and positions our Sites for future missions and use

- Our mission is not discretionary - it is a congressional mandate to D&D the gaseous diffusion plant under the U.S. Energy Policy Act of 1992 and a federal obligation to address the cold war environmental legacy cleanup and honor our regulatory commitments

- Time is not on our side – costs and risks increase over time

- We have demonstrated value for the American Taxpayer by delivering significant progress in the past several years in reducing risks and the overall liability - but our work is not done

- The Environmental Management portfolio is one of our nation’s largest liabilities - we have a responsibility to relieve future generations of this environmental and financial liability
Leveraging strategic investments to meet compliance and maintain cleanup momentum

Building on the ARRA momentum, the EM team will:

- Complete the three major tank waste construction projects:
  - Sodium Bearing Waste Facility by 2011 (operational 2012)
  - Salt Waste Processing Facility by 2014 (operational 2014)
  - Waste Treatment Plant by 2016 (operational 2019)

- Reduce the life-cycle costs:
  - Recovery Act investments - $7 billion in cost savings and cost avoidances
  - Transformational Tank Waste Technology - $19 billion reduction
  - High Priority Groundwater Remediation - $10 billion reduction

- Disposition 90% of legacy TRU waste by 2015
  - All EM cleanup waste to WIPP by 2020, except for Hanford
  - 40,000 m3 TRU remaining to be disposed to accomplish 2015 goal. 78,000 m3 of the 118,000m3 total goal have already been disposed.

- Shrink the EM legacy footprint 90% by 2015
  - In 1989, legacy cleanup footprint was 3,125 sq miles. At the start of ARRA cleanup in 2009, it was 931 sq miles. By the end of FY 2011, 559 sq miles will remain. By 2015, it will be reduced to 93 sq miles
  - All Material Access Areas eliminated
  - 2636 facilities complete
  - 7745 remediations complete

- By 2020, EM legacy cleanup will be virtually completed. Hanford will be the only large site remaining. Minor cleanup will remain at Savannah River, Portsmouth, and Oak Ridge.
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30 Years of Progress

1989: Start of EM Cleanup
110 sites
35 states

2020 EM Vision
One major site remaining (Hanford)
States with remaining minor legacy cleanup
States receiving legacy waste or awaiting decisions on high level waste

End of FY 2010
18 sites
11 states
Leveraging strategic investments to meet compliance and maintain cleanup momentum

Program Priorities

- Essential activities to maintain a safe, secure, and compliant posture in the EM complex
- Radioactive tank waste stabilization, treatment, and disposal
- Spent (used) nuclear fuel storage, receipt, and disposition
- Special nuclear material consolidation, processing, and disposition
- High priority groundwater remediation
- Transuranic and mixed/low-level waste disposition
- Soil and groundwater remediation
- Excess facilities deactivation and decommissioning (D&D)

EM Environmental Management

FY 2012 Budget Request

- Radioactive Tank Waste Stabilization and Disposition (38%)
- Excess Facilities Deactivation and Decommissioning (17%)
- Special Nuclear Material Consolidation, Processing and Disposition (10%)
- Transuranic and Mixed/Low Level Waste Disposition (14%)
- Spent Nuclear Fuel Storage, receipt and disposition (3%)
- Essential Services (8%)
- Soil and Groundwater Remediation (10%)

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Economic Benefits from EM Cleanup Mission

- Received $6 Billion in Recovery Act funds
- 9,362 jobs created/saved with Recovery Act funds
- $3.7B of Recovery Act funding paid to date
- $1.8B in Recovery Act prime and subcontracts awarded to small business
- $1.7B out of $6.1B in Base prime and subcontracts awarded to small businesses in FY 2010
- $7B in future savings and cost avoidances
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**EM Recovery Act Key Performance Metrics**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Actual to Date (1/31/11)</th>
<th>Target to Date (1/31/11)</th>
<th>ARRA Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Square Footage Demolished</td>
<td>2,506,499 sq. ft.</td>
<td>1,674,094 sq. ft.</td>
<td>6,072,207 sq. ft.</td>
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<tr>
<td>Facility Completions</td>
<td>163 facilities</td>
<td>144 facilities</td>
<td>260 facilities</td>
</tr>
<tr>
<td>Mill Tailings Disposed (Moab)</td>
<td>1,892,830 tons</td>
<td>1,584,407 tons</td>
<td>2,004,035 tons</td>
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<tr>
<td>CH TRU Waste Processed (Certification Ready)</td>
<td>3,759 m³</td>
<td>3,330 m³</td>
<td>6,485 m³</td>
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<tr>
<td>CH TRU Waste Certified for Final Disposal</td>
<td>1,772 m³</td>
<td>2,860 m³</td>
<td>6,153 m³</td>
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<tr>
<td>Transuranic Waste Dispositioned from Inventory</td>
<td>2,399 m³</td>
<td>2,306 m³</td>
<td>8,080 m³</td>
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<tr>
<td>LLW/ MLLW Disposed (Legacy and NGW)</td>
<td>71,457 m³</td>
<td>71,895 m³</td>
<td>85,005 m³</td>
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<tr>
<td>TRU Small Quantity Site Completions</td>
<td>3 sites</td>
<td>3 sites</td>
<td>8 sites</td>
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</tbody>
</table>

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**Corporate Performance Metric Life-Cycle Chart**

**Completions through FY 2012**

<table>
<thead>
<tr>
<th>EM Corporate Performance Measures</th>
<th>% of life-cycle total projected to be completed</th>
<th>Life-Cycle Total (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plutonium Metal or Oxide packaged for long-term storage</td>
<td><img src="image1" alt="Chart" /></td>
<td>5,089 (Number of Containers)</td>
</tr>
<tr>
<td>Enriched Uranium packaged for disposition</td>
<td><img src="image2" alt="Chart" /></td>
<td>8,171 (Number of Containers)</td>
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<tr>
<td>Plutonium or Uranium Residues packaged for disposition</td>
<td><img src="image3" alt="Chart" /></td>
<td>107,828 (Kg. of Bulk)</td>
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<tr>
<td>Depleted and Other Uranium packaged for disposition</td>
<td><img src="image4" alt="Chart" /></td>
<td>736,831 (Metric Tons)</td>
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<tr>
<td>Liquid Waste in Inventory eliminated</td>
<td><img src="image5" alt="Chart" /></td>
<td>88,814 (Thousands of Gallons)</td>
</tr>
<tr>
<td>Liquid Waste Tanks closed</td>
<td><img src="image6" alt="Chart" /></td>
<td>239 (Number of Facilities)</td>
</tr>
<tr>
<td>High-Level Waste packaged for final disposition</td>
<td><img src="image7" alt="Chart" /></td>
<td>24,159 (Number of Containers)</td>
</tr>
<tr>
<td>Spent Nuclear Fuel packaged for final disposition</td>
<td><img src="image8" alt="Chart" /></td>
<td>2,450 (Metric Tons of Heavy Metal)</td>
</tr>
<tr>
<td>Transuranic Waste shipped for disposal – CH</td>
<td><img src="image9" alt="Chart" /></td>
<td>151,516 (Cubic Meters)</td>
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<tr>
<td>Transuranic Waste shipped for disposal – RH</td>
<td><img src="image10" alt="Chart" /></td>
<td>7,452 (Cubic meters)</td>
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<tr>
<td>Low-Level and Mixed Low-Level Waste disposed</td>
<td><img src="image11" alt="Chart" /></td>
<td>1,441,074 (Cubic Meters)</td>
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<tr>
<td>Material Access Areas eliminated</td>
<td><img src="image12" alt="Chart" /></td>
<td>35 (Number of Material Access Areas)</td>
</tr>
<tr>
<td>Nuclear Facility Completions</td>
<td><img src="image13" alt="Chart" /></td>
<td>467 (Number of Facilities)</td>
</tr>
<tr>
<td>Radioactive Facility Completions</td>
<td><img src="image14" alt="Chart" /></td>
<td>1,071 (Number of Facilities)</td>
</tr>
<tr>
<td>Industrial Facility Completions</td>
<td><img src="image15" alt="Chart" /></td>
<td>3,686 (Number of Facilities)</td>
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<tr>
<td>Remediation Complete</td>
<td><img src="image16" alt="Chart" /></td>
<td>10,596 (Number of Release Sites)</td>
</tr>
<tr>
<td>Geographic Sites Complete</td>
<td><img src="image17" alt="Chart" /></td>
<td>107 (Sites)</td>
</tr>
</tbody>
</table>

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**Legend**

- EM Actuals to Date (including FY2010 Actuals for both ARRA and BASE)
- FY 2011 and FY 2012 Targets - BASE
- FY 2011 and FY 2012 Targets - ARRA

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**EM Environmental Management**

- Safety
- Performance
- Cleanup
- Closure

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Compliance Status

- Fully funds all essential activities to maintain a safe and secure posture in the EM complex
  - Met 95% of the 141 major enforceable agreement milestones in FY 2010
  - In FY 2011, there are approximately 160 major enforceable agreement milestones due
  - In FY 2012, EM’s goal is to meet 100% of its enforceable agreement milestones

- EM cleanup activities are governed by approximately 40 agreements with federal and state regulators

- Fully funds the recently negotiated Tri-Party Agreement settlement with Washington state

- Supports the required TRU waste retrievals at Idaho consistent with the terms of the Idaho Settlement Agreement

- Positions Los Alamos National Laboratory to comply with Consent Order
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FY 2012 Highlights

- Idaho Sodium Bearing Waste Treatment
  Conduct operations readiness reviews and testing

- Savannah River Salt Waste Processing Facility
  Construction and pre-operations

- Hanford Waste Treatment and Immobilization Plant
  Positions the project to proactively tackle project risks as they occur, rather than postponing troubleshooting to a post-construction phase; buys down risk

- Fully funds tank waste management and treatment activities (34% of total EM Life Cycle Costs)

- Tank waste retrievals at Hanford and Savannah River

EM Environmental Management

safety  performance  cleanup  closure

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**FY 2012 Highlights**

**Investment in transformational tank waste technologies support EM’s enhanced tank waste strategy**

- **Hanford Schedule**
  - $16B Life Cycle Cost (LCC) Reduction at Hanford
  - Accelerated 7 Years

- **Savannah River Schedule**
  - $3B LCC Reduction at Savannah River
  - Accelerated 6 Years

- **$19B Total LCC Reduction**

**EM Environmental Management**

- Safety
- Performance
- Cleanup
- Closure

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FY 2012 Highlights

Technology Investments

- High priority groundwater remediation
  - Understand and quantify subsurface flow and contaminant transport behavior in complex geological systems
  - $10B in LCC reduction

- Embedded throughout budget in specific cleanup projects for technology adaptations and demonstrations to support cleanup remedies
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FY 2012 Key Planned Accomplishments

Los Alamos National Laboratory
• Aggressively pursue cleanup in accordance with the LANL Consent Order:
  • Dispose of 1,300 cubic meters of Mixed Low-Level Waste and 1,000 cubic meters of transuranic waste
  • Continue D&D of 10 structures at TA-21 and TA-54
  • Initiate new excavation remedy at Material Disposal Area A (new deep groundwater and vapor monitoring wells and additional sampling and analysis)

Idaho
• Utilize TD&D funding to support maturation of the Hot Isostatic Press technology
  – RCRA Part B permit application by December 2012

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FY 2012 Key Planned Accomplishments

Oak Ridge
- Operate the Transuranic Waste Processing Center to process contact-handled and remote-handled TRU to meet the Site Treatment Plan milestone
  - Approximately 384 cubic meters
- Maintain compliance at the site with the use of Recovery Act (buy-back) funding (~$86M-$96M)
- Conduct pre-demolition activities on East Wing and North End of K-25 to advance progress toward facility completion by 2015

Waste Isolation Pilot Plant
- Increase shipments of contact-handled and remote-handled transuranic waste from small quantity sites
- Accelerate removal of TRU waste from a majority of these sites
- Increase characterization efforts at TRU waste generator sites to increase inventory of shippable waste and increase WIPP's efficiency
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Environmental Liability

**To Go Cost**

185

**Prior Costs**

84

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**Liability Reduction** = $20B

**Drivers**

- Incorporation of best practices
- Incorporation of tank waste LCC Baseline
- Application of lessons learned
- Incorporation of tank waste strategy into SRS baseline

**To Go Cost**

165

**Prior Costs**

91

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FY 2009

FY 2010

*All costs are in constant 2010 dollars*
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Funding by State (FY 2012 Congressional Request)

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Funding by Site (FY 2012 Congressional Request)
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BACKGROUND
Economic Benefits from EM Program Investments

<table>
<thead>
<tr>
<th>Location</th>
<th>ARRA Funds Received ($M)</th>
<th>ARRA Jobs Created/saved</th>
<th>ARRA Funding Paid thru 2-4-11 ($M)</th>
<th>ARRA Prime and Subcontracts Awarded to Small Businesses ($M)</th>
<th>Base and Prime Subcontracts Awarded to Small Business in FY 2010 ($M)</th>
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</thead>
<tbody>
<tr>
<td>Savannah River Site</td>
<td>1,615</td>
<td>1,768</td>
<td>1,028</td>
<td>299</td>
<td>428</td>
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<td>Idaho Operations Office</td>
<td>468</td>
<td>694</td>
<td>316</td>
<td>63</td>
<td>74</td>
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<tr>
<td>Oak Ridge</td>
<td>755</td>
<td>2,059</td>
<td>362</td>
<td>319</td>
<td>149</td>
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<tr>
<td>Office of River Protection</td>
<td>326</td>
<td>431</td>
<td>213</td>
<td>95</td>
<td>207</td>
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<tr>
<td>Portsmouth</td>
<td>120</td>
<td>385</td>
<td>103</td>
<td>110</td>
<td>126</td>
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<td>Richland Operations Office</td>
<td>1,635</td>
<td>2,633</td>
<td>981</td>
<td>433</td>
<td>366</td>
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<td>Waste Isolation Pilot Plant</td>
<td>172</td>
<td>262</td>
<td>110</td>
<td>34</td>
<td>63</td>
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<tr>
<td>Los Alamos Site Office</td>
<td>212</td>
<td>290</td>
<td>176</td>
<td>55</td>
<td>71</td>
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<tr>
<td>Paducah Gaseous Diffusion Plant</td>
<td>80</td>
<td>120</td>
<td>50</td>
<td>79</td>
<td>112</td>
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<tr>
<td>Subtotal, Large Sites</td>
<td>5,383</td>
<td>8,352</td>
<td>3,339</td>
<td>1,487</td>
<td>1,462</td>
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<tr>
<td>Subtotal, Other Sites</td>
<td>506</td>
<td>1,010</td>
<td>442</td>
<td>191</td>
<td>134</td>
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<tr>
<td>Grand Total</td>
<td>5,989</td>
<td>9,362</td>
<td>3,781</td>
<td>1,678</td>
<td>1,596</td>
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### EM Budget by State

<table>
<thead>
<tr>
<th>State</th>
<th>FY 2010 Current Approp</th>
<th>FY 2012 Request</th>
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<tbody>
<tr>
<td>California</td>
<td>20,786</td>
<td>13,987</td>
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<tr>
<td>Colorado</td>
<td>6,375</td>
<td>5,375</td>
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<td>Idaho</td>
<td>480,567</td>
<td>403,211</td>
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<td>Illinois</td>
<td>10,000</td>
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<td>Kentucky</td>
<td>175,397</td>
<td>154,794</td>
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<td>Mississippi</td>
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<td>Nevada</td>
<td>78,254</td>
<td>69,821</td>
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<td>New Mexico</td>
<td>455,030</td>
<td>611,109</td>
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<td>New York</td>
<td>89,933</td>
<td>69,685</td>
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<td>Ohio</td>
<td>393,978</td>
<td>350,816</td>
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<td>South Carolina</td>
<td>1,395,909</td>
<td>1,415,655</td>
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<td>Tennessee</td>
<td>455,621</td>
<td>417,216</td>
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<td>Utah</td>
<td>39,000</td>
<td>31,000</td>
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<tr>
<td>Washington</td>
<td>2,253,899</td>
<td>2,444,757</td>
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<td>Washington, DC</td>
<td>158,932</td>
<td>146,026</td>
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<td>Sub-Total</td>
<td>6,017,681</td>
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<td>FY Offsets</td>
<td>-11,787</td>
<td>-3,381</td>
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<td>Total</td>
<td>6,005,894</td>
<td>6,130,071</td>
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<table>
<thead>
<tr>
<th>Site</th>
<th>FY 2010 Current Request</th>
<th>FY 2012 Request</th>
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<tbody>
<tr>
<td>Argonne</td>
<td>10,099</td>
<td>-</td>
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<tr>
<td>Brookhaven</td>
<td>25,099</td>
<td>-</td>
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<td>ETEC</td>
<td>10,599</td>
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<tr>
<td>Hanford</td>
<td>1,044,939</td>
<td>1,095,947</td>
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<td>Idaho</td>
<td>469,155</td>
<td>992,000</td>
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<td>Los Alamos</td>
<td>200,454</td>
<td>161,917</td>
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<td>Miamisburg</td>
<td>33,283</td>
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<td>Moab</td>
<td>39,000</td>
<td>31,000</td>
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<td>Nevada</td>
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<td>SPRU</td>
<td>15,099</td>
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<td>SLAC</td>
<td>7,199</td>
<td>2,495</td>
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<td>Sandia</td>
<td>2,944</td>
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<td>Von HIP</td>
<td>224,981</td>
<td>223,722</td>
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<td>West Valley</td>
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<tr>
<td>Other</td>
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<td>5,175</td>
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<td>Program Direction</td>
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<td>Program Support</td>
<td>34,090</td>
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<td>TDSD</td>
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<td>CSED Fund Deposit</td>
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<td>Subtotal EM</td>
<td>6,440,681</td>
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<td>UED/SOE Fund O:t\t</td>
<td>(603,000)</td>
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<td>Defense Prior Year Offset</td>
<td>(11,747)</td>
<td>(1,381)</td>
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<tr>
<td>Total EM</td>
<td>6,037,934</td>
<td>6,108,071</td>
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</tbody>
</table>
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FY 2012 Key Accomplishments

Idaho

- Complete readiness testing in and startup of operations of the Sodium Bearing Waste facility
  - Process approximately 900,000 gallons of radioactive waste
  - Complete treatment of all tank waste and meet milestone to cease use of the Tank Farm Facility
  - Close four waste tanks
- Continue shipping stored contact-handled transuranic waste to the Waste Isolation Pilot Plant using the Advanced Mixed Waste Treatment Facility
  - Approximately 5,700 cubic meters
- Continue to dispose mixed low-level and low-level waste at the Radioactive Waste Management Complex
  - Approximately 1,640 cubic meters
- Continue to receive Domestic and Foreign Research Reactor spent (used) nuclear fuel shipments
- Maintain compliance with the “1995 Idaho Settlement Agreement”
- Utilize TD&D funding to support maturation of the Hot Isostatic Press technology
  - To acquire certain technology parameters to support submission of a RCRA Part B permit application by December, 2012

<table>
<thead>
<tr>
<th></th>
<th>FY 2010 Current Enacted</th>
<th>FY 2012 Cong Request</th>
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<tbody>
<tr>
<td></td>
<td>460,168</td>
<td>392,000</td>
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</table>
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FY 2012 Key Accomplishments

Oak Ridge

- Continue D&D at the East Tennessee Technology Park

- Continue D&D at ORNL and Y-12
  - Meet Federal Facility Enforceable Agreement Milestones and safety requirements

- Operate the Transuranic Waste Processing Center to process contact-handled and remote-handled TRU to meet the Site Treatment Plan milestone
  - Approximately 384 cubic meters

- Continue disposition operations for a portion of the Building 3019 Waste. Continue to develop alternatives and proceed with revised path forward
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**FY 2012 Key Accomplishments**

Richland

- Complete interim remedial actions in the 100 D and 100 H Areas
- De-inventory Knock-Out Pot Sludge from K West Basin and ship to the Canister Storage Building
- Operate 200 West Pump and treat system to contain and prevent contaminants from reaching the Columbia River
- Continue remediation of waste sites and facilities along the Columbia River to support completion by 2015.
- Support high-priority groundwater remediation efforts
  - Complete operational testing of the groundwater system for treating technetium at S/SX Tank Farm
  - Complete 100 and 300 Area remedial investigations to obtain final Record of Decision
- Remediate contaminated waste sites to prevent hexavalent chromium from entering the Columbia River

<table>
<thead>
<tr>
<th>($ in thousands)</th>
<th>FY 2010 Current Enacted</th>
<th>FY 2012 Cong Request</th>
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<tr>
<td>1,090,503</td>
<td>1,006,887</td>
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</table>

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FY 2012 Key Accomplishments

River Protection

- Continue construction of waste treatment facilities
  - Supports operations of the Low Activity Waste facility as early as 2016
- Complete one single-shell tank retrieval
- Complete hard heel removal from three single-shell tanks
- Complete infrastructure for the retrieval of the next three single-shell tanks
- Continue infrastructure build-out needed to support waste processing operations once construction complete
- Continue to perform single-shell and double-shell tank integrity evaluations

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<tr>
<th></th>
<th>FY 2010 Current Enacted</th>
<th>FY 2012 Cong Request</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td>1,098,800</td>
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Leveraging strategic investments to meet compliance and maintain cleanup momentum

**FY 2012 Key Accomplishments**

**Paducah**

- Operate the DUF6 conversion facility at full capacity
  - Begin disposition of resultant uranium oxide and hydrofluoric acid

- Treat, package and dispose of 18,000 metric tons of depleted uranium and continue disposition of newly generated waste

- Complete the D&D of two industrial facilities, dispose of all demolition waste, and complete site restoration activities

- Complete construction of Southwest Plume pump and treat system and initiate operations

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<tr>
<td></td>
<td>186,127</td>
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Leveraging strategic investments to meet compliance and maintain cleanup momentum

FY 2012 Key Accomplishments

Portsmouth

- Increase focus on D&D of the gaseous diffusion plant, ancillary facilities and systems
- Operate the DUF6 Project conversion facility
  - Dispose of uranium oxide and hydrofluoric acid
  - Package approximately 13,500 metric tons of depleted uranium for disposition
- Continue disposition of uranium materials, including surplus low enriched natural and depleted uranium from Fernald, Hanford, and several universities no longer used in research
- Characterize, treat, and dispose of any newly generated waste
Leveraging strategic investments to meet compliance and maintain cleanup momentum

FY 2012 Key Accomplishments

Savannah River

- Continue construction of the Salt Waste Processing Facility (last year of significant funding)
- Close two tanks (first delivery on the recently approved tank acceleration strategy)
  - Continue isolation and closure activities of multiple tanks
  - Deploy at tank pre-treatment technologies such as rotary microfiltration and small column ion exchange
  - Continue Tank 48 Return to Service
- Continue operation of the Defense Waste Processing Facility
  - Vitrify 312 canisters of high-level waste
- Dispose of up to 2,517 m³ of newly generated low-level waste
- Complete construction of Saltstone Disposal Unit #2

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EM  Environmental Management

www.em.doe.gov
Leveraging strategic investments to meet compliance and maintain cleanup momentum

FY 2012 Key Accomplishments

Waste Isolation Pilot Plant

- Safely and compliantly operate WIPP
  - Receive and dispose of contact-handled and remote-handled transuranic waste from 27 DOE sites
  - Maintain an average shipping capability of 21 contact-handled and 5 remote-handled shipments per week
  - Increase characterization efforts at transuranic waste generator sites to increase inventory of shippable waste and increase WIPP’s efficiency

- Increase shipments of contact-handled and remote-handled transuranic waste from small quantity sites
  - Accelerate removal of TRU waste from a majority of these sites

- Provide for economic assistance to the State of New Mexico pending the assumed re-authorization of the WIPP Land Withdrawal Act
Leveraging strategic investments to meet compliance and maintain cleanup momentum

FY 2012 Key Accomplishments

Los Alamos National Laboratory

- Aggressively pursue cleanup in accordance with the Consent Order
  - Dispose of 1,300 cubic meters of MLLW and 1,000 cubic meters of transuranic waste (significant increases over FY2011 planned levels)
  - Continue D&D of 10 structures at TA-21 and TA-54
  - Initiate new excavation remedy at Material Disposal Area A (new deep groundwater and vapor monitoring wells and additional sampling and analysis)

- Complete MDA A exhumation of the wastes in the central pit and eastern trenches, remove and dispose of tanks, backfill the excavation area, and cover and sample the area for release

- Continue disposal of low-level waste
  - 277 cubic meters (160 cubic meters remain at the end of 2012)
Leveraging strategic investments to meet compliance and maintain cleanup momentum

FY 2012 Key Accomplishments

Nevada National Security Site

- Continue operations of the low-level waste disposal cell and the RCRA mixed low-level waste disposal cell
  - 22,423 cubic meters emplaced
- Continue characterization and investigation activities, in preparation for closure of approximately 1180 soil and industrial facility sites and five groundwater regions.
- Continue waste acceptance audits and reviews to ensure waste generators fully meet Nevada National Security Site waste acceptance criteria.

SPRU

- Complete demolition and closure activities for G2 and H2 facilities
  - Deferred demolition and closure from FY 2011 to FY 2012 due to contamination incidents in early FY2011
- Complete offsite shipment of all building debris and waste from the site

Transfer decontaminated land to Naval Reactors Program
Leveraging strategic investments to meet compliance and maintain cleanup momentum

**FY 2012 Key Accomplishments**

**Brookhaven National Laboratory**
- Provide surveillance and maintenance activities for the Soil and Water Remediation Project, the Brookhaven Graphite Research Reactor, and the High Flux Beam Reactor
  - Initiate transfer to the Office of Science in FY 2013

**SLAC National Accelerator Laboratory**
- Provide surveillance and maintenance activities
  - Initiate the transfer to the Office of Science in FY 2013

**West Valley Demonstration Project**
- Continue processing, storage, and disposal of legacy and remediation low-level waste
- Begin demolition of the Main Plant Processing Building
- Begin the design of the High Level Waste Canister Storage Facility

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<td><strong>SLAC</strong></td>
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<td><strong>West Valley</strong></td>
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Leveraging strategic investments to meet compliance and maintain cleanup momentum

**FY 2012 Key Accomplishments**

**Moab**

- Continue to haul mill tailings from the Moab site
  - Currently have 2 trains with 34 cars, 5 days a week (24 hours a day)
  - Recovery Act funds support removal of 2 million tons of mill tailings

**Technology Development and Deployment**

- $32 million in technology development and deployment funding will support groundwater and soil remediation subsurface science issues to develop state-of-the-art methods and models for fate and transport in the subsurface.

- $60 million requested within the Office of River Protection will continue the acceleration of development and deployment of needed technologies to address tank waste issues, advance retrieval technologies, improved melter throughput, and increased glass waste loading.

- Support activities embedded in cleanup projects to ensure that specific remedies/technologies meet cleanup end states such as removing or containing contaminants of concern and schedules.