# Richland Operations Office
## FY 2015 Funding Marks by Control Point

<table>
<thead>
<tr>
<th>PBS</th>
<th>PBS Title</th>
<th>FY 2014 Omnibus (Enacted)</th>
<th>FY 2015 President's Budget</th>
<th>FY 2015 Omnibus Allocation</th>
<th>FY 2016 President's Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL-0011</td>
<td>NM Stabilization and Disposition - PFP</td>
<td>142,670</td>
<td>168,228</td>
<td>137,130</td>
<td>148,661</td>
</tr>
<tr>
<td>RL-0012</td>
<td>SNF Stabilization and Disposition</td>
<td>98,369</td>
<td>76,777</td>
<td>67,746</td>
<td>81,192</td>
</tr>
<tr>
<td>RL-0012</td>
<td>15-D-401 Containerized Sludge Line Item</td>
<td></td>
<td>26,290</td>
<td>46,055</td>
<td>77,016</td>
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<tr>
<td>RL-0013</td>
<td>Solid Waste Stabilization and Disposition - 200 Area</td>
<td>130,126</td>
<td>112,371</td>
<td>107,651</td>
<td>150,691</td>
</tr>
<tr>
<td>RL-0030</td>
<td>Soil and Water Remediation - Groundwater/Vadose Zone</td>
<td>141,500</td>
<td>116,916</td>
<td>184,929</td>
<td>174,619</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>Central Plateau Remediation</strong></td>
<td><strong>512,665</strong></td>
<td><strong>500,582</strong></td>
<td><strong>543,511</strong></td>
<td><strong>632,179</strong></td>
</tr>
<tr>
<td>RL-0040</td>
<td>Nuclear Facility D&amp;D - Remainder of Hanford</td>
<td>70,992</td>
<td>65,922</td>
<td>65,922</td>
<td>88,874</td>
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<tr>
<td>RL-0041</td>
<td>Nuclear Facility D&amp;D - River Corridor Closure Project</td>
<td>337,642</td>
<td>266,866</td>
<td>311,866</td>
<td>108,083</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>River Corridor and Other Cleanup Operations</strong></td>
<td><strong>408,634</strong></td>
<td><strong>332,788</strong></td>
<td><strong>377,788</strong></td>
<td><strong>196,957</strong></td>
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<tr>
<td>RL-0020</td>
<td>Safeguards and Security</td>
<td>69,078</td>
<td>63,668</td>
<td>63,668</td>
<td>67,601</td>
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<tr>
<td>RL-0042</td>
<td>Nuclear Facility D&amp;D - Fast Flux Test Facility Project</td>
<td>2,542</td>
<td>2,562</td>
<td>2,562</td>
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<tr>
<td>RL-0100</td>
<td>Richland Community and Regulatory Support</td>
<td>19,701</td>
<td>14,701</td>
<td>19,701</td>
<td>14,701</td>
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<tr>
<td>RL-TD-0100</td>
<td>Technology Development</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Total - RL</strong></td>
<td><strong>Richland Field Office Funding Summary</strong></td>
<td><strong>1,012,620</strong></td>
<td><strong>914,301</strong></td>
<td><strong>1,007,230</strong></td>
<td><strong>914,000</strong></td>
</tr>
</tbody>
</table>
Safety and Health

- Removing radioactive pipelines in the 300 Area
- Repairing electrical utilities
- Performing radiological surveys of heavy equipment
- Removing glove boxes at the Plutonium Finishing Plant
## Overall Occupational Safety Performance

**FY 2015 EM-wide goals**: TRC = 1.1; DART = 0.6

<table>
<thead>
<tr>
<th>Project</th>
<th>Work Hours</th>
<th>TRC Rate</th>
<th>DART Rate</th>
<th>FY15 TRC Rate</th>
<th>FY15 DART Rate</th>
<th>FY14 TRC Rate</th>
<th>FY14 DART Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFP</td>
<td>68,051</td>
<td>0.00</td>
<td>0.00</td>
<td>0.96</td>
<td>0.00</td>
<td>1.07</td>
<td>0.27</td>
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<tr>
<td>KBC</td>
<td>12,663</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>TRU/WO</td>
<td>43,615</td>
<td>0.00</td>
<td>0.00</td>
<td>1.46</td>
<td>0.00</td>
<td>0.36</td>
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<td>GRP</td>
<td>46,177</td>
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<td>0.00</td>
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<td>0.75</td>
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<td>CHPRC</td>
<td>232,751</td>
<td>0.00</td>
<td>0.00</td>
<td>0.53</td>
<td>0.00</td>
<td>0.57</td>
<td>0.07</td>
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<tr>
<td>MSA</td>
<td>264,407</td>
<td>0.00</td>
<td>0.00</td>
<td>0.48</td>
<td>0.24</td>
<td>1.13</td>
<td>0.66</td>
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<tr>
<td>WCH</td>
<td>150,310</td>
<td>0.00</td>
<td>0.00</td>
<td>0.44</td>
<td>0.00</td>
<td>0.18</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>RL TOTAL</strong></td>
<td><strong>647,468</strong></td>
<td><strong>0.00</strong></td>
<td><strong>0.00</strong></td>
<td><strong>0.49</strong></td>
<td><strong>0.10</strong></td>
<td><strong>0.69</strong></td>
<td><strong>0.29</strong></td>
</tr>
</tbody>
</table>

**December-14**

<table>
<thead>
<tr>
<th>TRC Rate</th>
<th>DART Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
<td>&lt;=.80</td>
</tr>
<tr>
<td>Good</td>
<td>&gt;0.80 &lt;=1.31</td>
</tr>
<tr>
<td>Investigate</td>
<td>&gt;1.31 &lt;=1.82</td>
</tr>
<tr>
<td>Define Actions</td>
<td>&gt;1.82</td>
</tr>
</tbody>
</table>
• Crews remove the face of a glove box in the Americium Recovery Facility
Cleanup Progress – Plutonium Finishing Plant

- 63 of 81 plant facilities removed or demolished
- 215 of 238 glove boxes removed or cleaned out for removal during demolition
- 173 of 196 pencil tank units removed

Above, crews remove pencil tank units using a remote crane. Left, a glove box is removed from the ventilation system.
Groundwater Remediation Progress

- The soil and groundwater remediation project team has treated 560 million gallons of contaminated groundwater in FY2015
- The team has removed:
  - 16,243 kilograms of nitrate (as Nitrogen)
  - 71 kilograms of chromium
  - 737 kilograms of carbon tetrachloride

Workers perform scheduled maintenance at the 200 West Pump and Treat Facility
Soil sampling near K-East Reactor

• Completed earthwork for drilling and sampling of soil and groundwater next to K East Reactor
  – Added ~9,000 cubic yards to cover the old discharge chute and establish a clean and safe working surface

• Contractor awarded field support and laboratory subcontracts

Crews have completed earthwork and final drill pads at two borehole sites beneath the former location of the reactor’s fuel storage basin
K-Basin Closure – Annex Construction

Exterior of the annex

Interior of the annex
Environmental Restoration Disposal Facility

- Nearly 17 million tons of cleanup waste disposed since ERDF operations began in 1996
- ~400,000 tons of waste disposed to date in FY 2015
Cleanup Progress – 300 Area

- The underground Plutonium Recycle Test Reactor was removed in 2014
- The concrete/steel containment structure (32 feet underground) was removed and processed for disposal
- After sampling, regulators have approved leaving remaining structure in place

Site of the former Plutonium Recycle Test Reactor, the largest of six former test reactors in the 300 Area
Cleanup Progress – 100-D Area

- Crews backfilled one of two large sites where workers dug 85 feet to remove chromium
- Work is underway to dig additional 10 feet from second deep dig site
- Removing more source term will reduce groundwater treatment costs

Cleanup of near D and DR reactors is expected will be complete in 2015
Cleanup Progress – 100-N Area
Cleanup Progress – 618-10 Burial Ground

- Remediation of waste trenches to be completed in FY2015
- Progress to date:
  - 240,000 tons of soil loaded out to ERDF
  - 891 drums of excavated, overpacked

Workers have excavated down 35 feet in some areas to remove drums and contaminated soil. The burial ground is expected to contain about 1,550 drums
Richland Operations Office River Corridor Projects

100 K-Area
- Transport sludge to Central Plateau for treatment
- Demolish facilities
- Remediate waste sites
- Put reactors in Interim Safe Storage

Continue groundwater treatment
- Hexavalent chromium pump and treat (D, H and K Areas)
- Strontium apatite barrier (N Area)
- Uranium sequestration (300 Area)

NOTE: Reactor removal and FFTF D&D Post 2030/2040

- Central Plateau Outer Area Cleanup
- Production Reactors & FFTF
- To Go Work
- Energy Northwest
- Hanford Reach National Monument

618-11 Burial Ground

618-10 Burial Ground Vertical Pipe Units

324 Building and waste sites
Manhattan Project National Historical Park

Visitors at B Reactor
Public Outreach/Involvement Activities

Current/Upcoming Opportunities

- **Public comment period** on proposed upgrades to the Waste Encapsuation Storage Facility, **Dec. 11 to Feb. 20**

- **Public tour season** begins in April. Dates and signup information to be announced soon on [www.hanford.gov](http://www.hanford.gov)

- **Internet survey** – The Tri-Party seek public input to help improve Hanford public involvement activities, [www.hanford.gov](http://www.hanford.gov)

Members of the Hanford Advisory Board’s River and Plateau Committee tour the 300 Area and MASF
Find Out More

Go to www.hanford.gov to learn about

• Latest news on Hanford cleanup progress
• Upcoming opportunities for input on cleanup decisions
• Upcoming tours
• How to book a speaker
• Hanford newsletters
• Hanford social media sites