Key Points

• ORP is committed to significant accomplishments in cleaning up the site and meeting our compliance commitments

• This briefing reflects the proposed milestones in the Consent Decree/TPA tentative agreement

• This briefing presents planned work scope accomplishments to be performed in FY 2012

Mission: “Retrieve, immobilize and dispose of radioactive and chemical tank waste and close Hanford’s Tank Farms”
ORP Focus Priorities

- Maintain Safe and Compliant Facilities
- Continue constant safety vigilance and focus
- Achieve Regulatory/TPA Compliance
- Continue WTP construction progress
- Prepare predictable/consistent waste feed delivery system
- Retrieve tank waste to prepare feed to WTP
- Continue integration of Tank Farms and Waste Treatment Plant projects to achieve hot start in 2019
- Prepare the Tank Farms to deliver waste feed reliably and consistently by 2019 and beyond
- Work closely with Regulators, Tribes, Stakeholders and public on existing work to further progress
<table>
<thead>
<tr>
<th>PBS Title</th>
<th>FY 2010 Appropriation</th>
<th>FY 2011 President's Budget</th>
<th>FY 2012 Baseline</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>River Protection Budget Summary</strong></td>
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<tr>
<td>ORP-0014 Tank Farm Activities</td>
<td>$ 408,000</td>
<td>$ 418,000</td>
<td>$ 484,920</td>
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<tr>
<td><strong>ORP-0060 Waste Treatment and Immobilization Plant</strong></td>
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<tr>
<td>01-D-16A Low-Activity Waste</td>
<td>$ 100,000</td>
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<td>01-D-16B Analytical Laboratory</td>
<td>$ 55,000</td>
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<td>01-D-16C Balance of Facilities</td>
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<td>01-D-16D High-Level Waste Facility</td>
<td>$ 160,000</td>
<td>$ 260,178</td>
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<td>01-D-16E Pretreatment Facility</td>
<td>$ 325,000</td>
<td>$ 415,000</td>
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<tr>
<td>Total, Waste Treatment and Immobilization Plant</td>
<td>$ 690,000</td>
<td>$ 740,178</td>
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<td><strong>Total, Office of River Protection</strong></td>
<td>$ 1,098,000</td>
<td>$ 1,158,178</td>
<td>$ 1,174,920</td>
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</tbody>
</table>
FY 2012 Planned Accomplishments – Tank Farms

- Manage Tank Farms in a safe and compliant manner
- Complete SST Bulk Retrieval of C-112
- Complete Hard Heel removal from C-104, C-111, C-107 and C-109
- Complete design of C-105
- Continue evaluation/implementation of SST Integrity recommendations (i.e., evaluate SST rebar corrosion potential mapping of concrete rebar & tank steel liner)
- Conduct 242-A Evaporator Campaign
- Complete construction of SX Barrier
- Initiate design of next Barrier
- Complete removal of five Hose-in-Hose Transfer Lines
FY 2012 Planned Accomplishments – Tank Farms

- Initiate design and procurement activities for AW, AZ, and SY Farm Feed Delivery Systems
- Complete AY/AZ Ventilation System Upgrade design, fabrication and initiate construction
- Complete Mixer Pump 1 & 2 fabrication
- Complete Interim Hanford Storage Facility preliminary design
- Complete Secondary Waste Treatment preliminary design
- Initiate WTP Cold Commissioning activities
Waste Treatment and Immobilization Plant

**Pretreatment Facility** - 73% completed from 63% in FY 2011

- Complete seismic upgrades for 8 process vessels
- Lift and set the lower piping module in PA03
- Set Waste Feed Evaporation Process vessels
- Complete the Architectural Engineering design
- Complete Jumper Engineering design

*Image: A pipefitter on the 56’ elevation works to install piping in a rebar wall*

*Image: A piping module stands near PT’s western face*

*Image: Aerial view March 2010*
Waste Treatment and Immobilization Plant

**High-Level Waste** - 71% complete from 63% in FY 2011

- Complete Structural Steel at EL 37'
- Set HEPA Filter Housing Installation at EL +14’
- Set Off Gas Carbon Absorber

*Concrete formwork is lowered into the 14’ elevation of HLW*

*Liner plates for the HEPA filter pre-heaters in the HLW facility at the 14’ level of HLW*

*Aerial view March 2010*
Waste Treatment and Immobilization Plant

Low Activity Waste (LAW) -- 79% Overall Complete from 75% in FY 2011
Analytical Lab (LAB) -- 60% Overall Complete from 56% in FY 2011
Balance of Facilities (BOF) -- 62% Overall Complete from 59% in FY 2011

- LAB Construction Substantially Complete
- Complete construction on the Steam Plant Chiller Compressor Plant, Glass Former Storage and the Anhydrous Ammonia Facility
- Receive LAW Thermal Catalytic Oxidizer, Exhauster and Caustic Scrubber

Looking south from the LAW; Silos; the Glass Former Facility and CCP are visible

Key River Protection Project TPA/Consent Decree Milestones for FY 2012
- LAB Construction Substantially Complete
- Steam Plant Construction Complete
- Complete Structural Steel to Elevation 37’ in the HLW Facility