Jonathan A. Dowell
DOE-RL Assistant Manager for River and Plateau

Safe and Effective Cleanup that Protects the Columbia River

- Reduces the Active Site Footprint of Cleanup to 75 Square Miles (586 to 75)
- Significantly Reduces Long-Term Mortgage Costs
- At Completion, Shifts Emphasis and Resources to Full Scale Cleanup of the Central Plateau (75 square miles)
- Reduces Costs by "Right Sizing" Hanford's Infrastructure via a Mission Support Contract
- Minimizes Injury to Natural Resources

Richland Operations Office

- IU = Isolated Unit
- ROD = Record of Decision
- TSD = Treatment, Storage, Disposal

K Area
- K East Basin Demolition
- Interim Safe Storage of K East Reactor Complete
- K West Sludge Removed from the River Corridor
- Interim Safe Storage of K West Reactor Initiated
- All K Area Final ROD Remedial Actions Complete and TSD Units Closed with the exception of those associated with K West
- All K Area Groundwater Remedies Implemented
- 2300 Tons of Scrap Nuclear Fuel Removed
- 109 Facilities Demolished
- 2 Waste Sites Remediared
- ~361,000 Tons of Soil Removed

Central Plateau Cleanup
- All 200 West Carbon Tetrachloride, Uranium and Technetium 999 Groundwater Remedies Implemented
- Conduct Additional Cleanup as Funds Become Available

IU2 & IU6 Area
- Interim Safe Storage of F Reactor Complete
- All IU2 & IU6 Area Final ROD Remedial Actions Complete
- All IU2 & IU6 Area Final ROD Groundwater Remedial Actions Complete
- 1 Facility Demolished
- 50 Waste Sites Remediared
- ~962,000 tons of Soil Removed

Plutonium Finishing Plant Complex
- All Special Nuclear Material Shipped Off-site
- Slightly Irradiated Fuel Shipped to the Canister Storage Building for Safeguarding
- PFP Complex Reduced to Slab on Grade
- 18 Facilities Demolished

B & C Area
- Interim Safe Storage of C Reactor Complete
- B Reactor Designated as a Museum or Interim Safe Storage Complete
- All B & C Area Final ROD Remedial Actions Complete
- All B & C Area Groundwater Remedies Implemented
- 6 Facilities Demolished
- 40 Waste Sites Remediared
- ~381,000 Tons of Soil Removed

300 Area
- All 300 Area Final ROD Remedial Actions Complete and TSD Units Closed
- All 300 Area Groundwater Remedies Implemented
- 186 Facilities Demolished
- 95 Waste Sites Remediared
- ~923,000 Tons of Soil Removed
- Final Remediation of 618-10 & 618-11 Burial Grounds Complete

400 Area
- Fast Flux Test Facility in Surveillance and Maintenance

D & H Area
- Interim Safe Storage of D, DR, and H Reactors Complete
- All D & H Area Final ROD Remedial Actions Complete
- All D & H Area Groundwater Remedies Implemented
- 16 Facilities Demolished
- 56 Waste Sites Remediared
- ~1,700,000 Tons of Soil Removed

N Area
- Interim Safe Storage of N Reactor Complete
- All N Area Final ROD Remedial Actions Complete and TSD Units Closed
- All N Area Groundwater Remedies Implemented
- 108 Facilities Demolished
- 61 Waste Sites Remediared
- ~157,000 Tons of Soil Removed

September 2008
Hanford Advisory Board
DOE-RL Update
April 12, 2012
2015 Vision

- Reduces active cleanup footprint to less than 75 square miles by 2015
- Reduces costs by “right-sizing” Hanford infrastructure
- At completion, shifts emphasis and resources to full-scale cleanup of Central Plateau
2015 Vision

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* Does not reflect all work

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Interior of Plutonium Reclamation Facility canyon area

Multi-Canister Overpack at K Basin
River Corridor 300 Area

308 Building Demolition
River Corridor 618-10

- Trench remediation continues
  - Removed more than 175 drums
    - 98 of 175 drums were concrete lined

- Began bottle crushing March 21, 2012
  - Thousands are anticipated to be recovered
  - Cost savings
River Corridor 618-11

• Contract awarded for infrastructure set-up in 2012
• Working with Energy Northwest on Nuclear Regulatory Commission license application
River Corridor F Area

- Hanford’s first reactor area to be completed
- Field work at 100-F Reactor is complete pending closeout sampling results
- Greater volume of chromium contaminated soil was found at 100-F-57 waste site
River Corridor D & H Area

Soil & Groundwater Remediation

- Excavation of deep chromium waste sites (100-D-100/104) completed to 55 feet
- Power line and groundwater wells require relocation to access deep vadose zone chromium contamination at 100-D-100
River Corridor N Area

• River Structures
  – Demolition is well underway
• Reactor Cocooning 3 months ahead of TPA milestone
• Demolition of Fuels Storage Basin Completed
  – Workers completed high radiation work well below ALARA forecast
River Corridor K Area

118-K-1 trench pothole sampling
River Corridor K Area

**K Area Demolition**

- Demolishing the 183-KE Sedimentation Basin
- Installing Knockout Pot Processing System (KPS) equipment in 105KW Basin
- Excavation of the 118-K-1 Reactor Hardware Burial Ground will be complete in April
River Corridor C Area

**100-C-7 Waste Site**
- Massive excavation of chromium contaminated soil at B/C Area
- Excavation to groundwater completed
- Electrical power lines are being moved to access chromium plume in sidewall of excavation

100-C-7 Aerial – November 2011 -- BEFORE

100-C-7 Aerial – February 2012 -- AFTER
Central Plateau
Inner Area: Plutonium Finishing Plant

Plans for FY 2012:
• Demolish 55 pencil tank units; 75 of 196 total units to date
• Demolish 4 of 6 plutonium vaults
• Remove 4 glove boxes; 167 of 238 total glove boxes to date
Loading of Glove Boxes Into New Standard Large Waste Box (SLB2)
Central Plateau Inner Area

Waste & Fuels Management

- Deployed standard large box waste containers
- Completed treatment of 300 million gallons at the Effluent Treatment Facility
- Completed Acceptance Testing Plan (ATP) for the High Energy Real-Time Radiography (HERTR)
Central Plateau Inner Area: ERDF

- Extensive treatment of chromium-contaminated soils from 100-C-7 and other waste sites
  - Approximately 67,000 tons of chromium soil was delivered to ERDF. Treatment began March 21, 2012
Groundwater

- Treated 489 million gallons of groundwater through February 2012
- 100 Area Groundwater Treatment Facility processed more than 1 billion gallons of water to drinking water standards since January 2011
- Loaded micro-organisms, or “bio bugs,” and other media at the 200 West Groundwater Treatment Facility
- Completed construction of the S-SX extraction building for the 200 West Groundwater Treatment Facility
Asbestos Background

- Employees and EPA Inspector General raised concerns about demolition and facilities with asbestos-containing materials
- Areas barricaded and team formed: concerned employees, HAMTC, contractors, DOE, CSC Hanford Occupational Health Services
- Facility/Area walk downs, sampling, follow-up actions
- Communication with employees and former employees
- Appreciate employees raising concerns, DOE is assisting EPA with corrective action plan to respond to EPA-IG concerns

http://www.hanford.gov/page.cfm/EmployeeAsbestosInformation
## Budget

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<thead>
<tr>
<th>Richland Operations Office</th>
<th>FY12 Appropriation</th>
<th>FY13 President's Budget (Realigned)</th>
<th>FY14 Requirements</th>
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<td>Total $ in thousands</td>
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<td>$1,037.8</td>
<td>$1,322.4*</td>
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- **TPA Compliance**
- **River Corridor Closure**
- **K Basin Sludge**
- **Plutonium Finishing Plant**
- **Groundwater**
- **River Corridor Records of Decision**

*FY14 requirements are draft and subject to change.*
CWC Box

CWC Yard
2/11

CWC Yard
April 2011

Box of interest

Collection Bottles
Collection Pan
2012 Lifecycle Scope, Schedule & Cost Report

• In development...
• Public feedback is an ongoing part of the annual report preparation process.
• Written feedback on the 2012 Report needs to be submitted to LCSSC@rl.gov by April 13, 2012
• The 2013 Lifecycle Report will be issued January 31, 2013
Getting the Word Out

**The Hanford Story**
- *The Future Chapter* – released March 2012

**Hanford Tours - 2012**
- 60 Hanford Site tours
  - Tours began this week
  - 60 public tours in 2011
- 81 B Reactor tours
  - April 2nd first tour of season
  - 48 tours in 2011

**Speakers Bureau**
- 2,369 audience participants at 26 venues in FY12
  - 380 individuals and 5 venues since February 2012

Cameron Salony speaks with students from Chief Joseph Middle School in Richland
Questions