Richland Operations Office

2020 Vision

Doug S. Shoop
Safe, Secure and Compliant (Contractual, Regulatory and Compliance Agreement) Mission Accomplishment by an Engaged and Motivated Workforce

Funding profile = approximately $900M/year
Richland Operations Office 2020 Vision

"Safe, Secure, and Compliant Mission Accomplishment by an Engaged and Motivated Workforce"

**Today**
- Hanford Reach
- Columbia River
- River Corridor
- Central Plateau
- 586 Sq. Miles

**2020 and Beyond**
- 10 Sq. Miles

**Key Accomplishments Completed by:**

<table>
<thead>
<tr>
<th>CY 2017</th>
<th>CY 2018</th>
<th>CY 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFP Demolished to Slab on Grade</td>
<td>River Corridor Orchard Lands Remedial Investigation Report Completed</td>
<td>K Area Sludge Transferred to T Plant for Storage, Treatment, and Disposal</td>
</tr>
<tr>
<td>Manhattan Project National Park Transition Plan Completed</td>
<td>All (6) River Corridor Records of Decision Completed</td>
<td>Hanford Site RCRA Permit Finalized and Signed</td>
</tr>
<tr>
<td>Protocols for Open and Transparent Access and Use of Remediated Lands Established</td>
<td>All River Corridor Remedial Actions (except 618-11 and K Area) Completed</td>
<td>All Signed Tribal MOA Commitments Completed</td>
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<tr>
<td>Manhattan Project National Park Transition Plan Implementation Initiated</td>
<td>All River Corridor Groundwater Remedial Actions Implemented</td>
<td>New Cleanup Contracts Awarded and Contract Transition Completed</td>
</tr>
<tr>
<td>Initiate Characterization of the Central Plateau 200-WA-1 Operable Unit</td>
<td>Remote Excavation of Waste Site under 324 Building Completed and Demolition Initiated</td>
<td>Partial Natural Resources Damage Assessment Settlements Initiated</td>
</tr>
<tr>
<td></td>
<td>K Area Sludge Removal Capital Asset Project Completed</td>
<td>Collaboration, Coordination and Communications with ORP improved</td>
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Based on Funding Profile of ~$900M
River Corridor Project Completed (Green Capital Asset Project)

*September 2019 (CD 4)*
All (6) River Corridor CERCLA RI/FS Records of Decision Completed and Approved

December 2019
All (except K Area and 618-11) River Corridor Record of Decision Waste Site Remedial Actions Completed and All Groundwater Remedial Actions Implemented

December 2019
300-296 Waste Site “Remote Excavation” Complete (TPA Milestone = September 2019) and 324 Building Demolition Initiated (TPA Milestone = September 2021 demolition complete)
618-10 (and associated waste sites) Completed

September 2018
K Area Sludge Removal Project Completed (Green Capital Asset Project)

November 2019 (CD 4)
K Area Sludge Transferred to T-plant for Storage and Eventual Treatment and Disposal

December 2019
K Area Cleanup Required by CERCLA Final Record of Decision and TPA Milestones Initiated

December 2019
PFP Slab on Grade Completed (Green Capital Asset Project)

September 2017 (TPA) - August 2018 (CD 4)

PFP Schedule

- Plutonium Reclamation Facility Canyon Grouted
- High-Hazard Glove Boxes Removed
- Pre-Demo Glove Box Removal Starts
- Level B Suit Work Complete
- Ancillary Building Demolition (2729)
- Ancillary Building Demolition (2727)
- Readiness Assessment
- McCluskey Room (242-Z) Demo Ready
- Plutonium Reclamation Facility (238-Z) Demo Ready
- Plutonium Reclamation Facility (238-Z) Demolition
- McCluskey Room (242-Z) Demolition
- First Phase Employee Transition Out
- Main Processing Facility (234-SZ) Demo Ready
- Main Processing Facility (234-SZ) Demolition
- Fan House/Ventilation Stack (291-Z) Demo Ready
- Fan House/Ventilation Stack (291-Z) Demolition
- Second Phase Employee Transition Out
- Site Demobilization
- Third Phase Employee Transition Out

Challenges
- Open Air Demo Concerns
- Workforce Transition and Skills Mix
- Unexpected Contamination Discovery
- Aging Infrastructure
Cesium/Strontium Capsules Capital Asset Project CD-3 (Green), Storage Cask Fabrication, Construction of the Capsule Storage Area and WESF Modifications Initiated

December 2019
All Central Plateau Groundwater Interim and Final CERCLA Records of Decision Issued, Remedies Selected, and Treatment Capacity Increased to 1.3 Billion Gallons a Year for 200 East and 200 West Areas

December 2019
Initiate Characterization of the Central Plateau
200 West Inner Area & BC Cribs & Trenches

September 2018
Key Hanford Infrastructure Projects
Completed and Remaining Essential
Infrastructure Projects Identified and Prioritized

December 2019

- Complete construction of 200E 13.8kV Electrical Distribution System modifications and upgrades
- Complete construction of 200W Transmission and Distribution System Refurbishments
- Complete construction of 230kV Transmission System Reconditioning and Sustainability Repairs (BPA partnership for Double Loop)
- Complete Electrical Transfer Trip upgrades
- Complete Transmission/Distribution Access Road upgrades
- Complete the natural gas pipeline EIS
- Complete NEPA, pilot test, and conceptual design of new Water Treatment Facility
- Complete NEPA, design, and begin construction for compliance driven cross connection control modifications on 200 Area raw water system
- Complete NEPA, design, and begin sewer system reconfiguration for a new Equalization Facility and system consolidation to lagoon
- Complete implementation and badging for HSPD-12
- Complete implementation of the new electronic medical record/EJTA
- Complete design and initiate construction of 400 Area fire house
- Complete 18 miles of Route 4S Chip Seal
Hanford Site RCRA Permit (Rev. 9) Finalized and Signed

December 2019
Manhattan Project National Historical Park and Related Properties Transitioned from Hanford Nuclear Operations to Independent National Park Operations

**Transition Plan Completed - March 2017**

**Transition Plan Implementation Begun - September 2018**
Protocols Established and Implemented with US Fish and Wildlife, Tribes, Local Elected Officials and Other Key Stakeholders that Provide an Open and Transparent Forum for Access, Use and Management of Hanford Lands

December 2017
All Signed Tribal Memoranda of Understanding/Memoranda of Agreement Commitments Completed

December 2019
New Hanford Cleanup Contracts Awarded and Contract Transition Completed

**December 2019**

**Current Hanford Prime Contracts**

<table>
<thead>
<tr>
<th>Contract Description</th>
<th>Company</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tank Operations Contract (TOC)</strong></td>
<td>WRS</td>
<td>Store, retrieve, and treat tank waste, store and dispose of treated waste, and close the Tank Farm waste management areas. Awarded in 2008 for 5 years plus 3 plus 2. Total Contract Value: $5.9B CPAF. Expires 9/30/2018.</td>
</tr>
<tr>
<td><strong>222-S Laboratory Analysis &amp; Testing Services Contract</strong></td>
<td>WHL</td>
<td>Awarded in 2015 for 2 years plus 3 one year options. Total Contract Value: $44.5M. Hybrid contract (FFP with award fee, Labor Hour Provision, CR). Expires 9/21/2020.</td>
</tr>
<tr>
<td><strong>Occupational Medical Services Contract - HPMC</strong></td>
<td>HPMC</td>
<td>Awarded in 2012 for 2 years plus 4 one year options. Total Contract Value: $100.2M. Hybrid contract (FFP with award fee, CR, and ID/IQ). Expires 9/30/2018.</td>
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Notes: 1. River Corridor Closure Contract (CPIF) ends on September 30, 2016
2. Excludes Waste Treatment Plant Construction/Commissioning Contract (Bechtel National)
Working with the U.S. Department of Justice to Reduce the U.S. Natural Resource Damages Liability by Initiating Partial Settlement(s) for Significant Hanford Natural Resources, such as Groundwater
Improve Collaboration, Coordination and Communications between the Richland Operations Office and Office of River Protection

- RL/ORP co-location - 2016
- Hanford 5-Year Succession Plan - 2016/2017
- Hanford Integrated Priority List (DFLAW 2022 focused) - 2017
- Consolidated Hanford systems, processes, and procedures - 2018
- Hanford contracts awarded and transition initiated - 2019
- Integrated Hanford operations - September 2019
INNER & OUTER AREA OPERABLE UNITS

OPERABLE UNIT LEGEND
- 200-PW-1/3/6 and 200-CW-5 (EPA)
- 200 West (EPA)
- 200 East IS-1 (Ecology)
- Canyons & Associated Waste Sites (see map)
- 200-SW-2 (Ecology)
- Deep Vadose Zone (Ecology)
- Approved Waste Disposal Sites (n/a)
- Tank Farms (n/a)

Inner Area Operable Units:
- 200-PW-1/3/6 & 200-CW-5
- 200-WA-1 & 200-BC-1
- 200-EA-1 & 200-IS-1
- 200-SW-2
- 200-DV-1
- 200-CB-1
- 200-CP-1
- 200-CR-1
- REDOX (EPA)

Outer Area Operable Units:
- 200-OA-1 & 200-CW-1/3

Plutonium contaminated soil sites:
- 200 West Inner Area & BC Crib & Trenches
- 200 East Inner Area & Pipelines
- Burial Grounds
- Deep Vadose Zone
- B Plant Canyon
- PUREX Canyon
- REDOX Canyon

Groundwater Operable Units:
- 200-ZP-1 & 200-UP-1
- 200-PO-1 & 200-BP-5

200 West Area Groundwater
200 East Area Groundwater