

# **Environmental Management**

## **Budget Briefing**

**FY 2018 President's Budget  
FY 2019 Estimated Requirements**



*Greg Jones, Richland Operations Office*

*June 7, 2017*

# Richland Cleanup

June 2017

- Maintain safe, secure and compliant activities, facilities and operations
- Continue groundwater pump-and-treat operations and implement additional groundwater remedies
- Continue progress toward River Corridor cleanup
- Continue preparation to move sludge from 100 K Area Basin (K Basin) near the Columbia River to interim storage in the Central Plateau
- Continue repackaging of large transuranic (TRU) containers and waste drums
- Continue to maintain surplus nuclear facilities and site infrastructure



# Richland Prime Contracts

June 2017



## Plateau Remediation Contract PRC

Facility and waste site cleanup, groundwater remediation, waste management

Awarded in 2008 for 5 years, with 5 option years

Total Contract Value: \$5.8B

Cost-plus award-fee contract



## Mission Support Contract MSC

Cost-effective infrastructure and site services to support the cleanup mission

Awarded in 2009 for 5 years with 2 and 3-year option years

Total Contract Value: \$3.6B

Cost-plus award-fee contract

## HPM Corporation (HPMC) provides occupational medical services to DOE, Hanford contractors

Awarded in 2012 for 2 years with four 1-year option periods, a hybrid contract that includes firm-fixed price with award fee, cost reimbursement, and Indefinite Delivery Indefinite Quantity (IDIQ) component.

Total Contract Value: \$99.5M

# RL Profile by Congressional Control Point

June 2017

*(\$ in Thousands)*

PBS	PBS Title	FY 2017 Omnibus	FY 2018 President's Budget***
RL-0011	NM Stabilization and Disposition - PFP	143,404	
RL-0012	SNF Stabilization and Disposition	24,645	
RL-0013C	Solid Waste Stabilization and Disposition - 200 Area	91,820	
RL-0030	Soil and Water Remediation - Groundwater/Vadose Zone	127,476	
RL-0201	Hanford Site Wide Services*	272,473	
<b>Central Plateau Remediation</b>		<b>659,818</b>	
RL-0040	Nuclear Facility D&D - Remainder of Hanford	31,400	
RL-0041	Nuclear Facility D&D - River Corridor Closure Project	112,355	
<b>River Corridor and Other Cleanup Operations</b>		<b>143,755</b>	
RL-0012	15-D-401 Containerized Sludge Removal Annex	11,486	
RL-0013C	18-D-404 WESF Modifications and Capsule Storage		
RL-0020	Safeguards and Security	74,176	
RL-0025	Richland Cyber Security		
RL-0042	Nuclear Facility D&D - Fast Flux Test Facility Project	2,240	
RL-0100	Richland Community and Regulatory Support**	24,701	
<b>Total</b>	<b>Richland Field Office Funding Summary</b>	<b>916,176</b>	<b>800,422</b>

\* These costs were distributed among several PBSs in FY 2016

\*\* State regulatory/oversight costs are transferring to RL-0201 in FY 2018

\*\*\* Individual PBS dollar amounts for FY 2018 President's Budgets are still to be determined

# Hanford Safety and Health

June 2017



- Voluntary Protection Program (VPP) – Star status for all contractors
- Beryllium Corrective Action Plan completed
- Plutonium Finishing Plant focus

# Site-Wide Services

June 2017

Provide site-wide services for day-to-day operations to include, but not limited to, general utilities and fire department



Starting in FY 2017, Richland has funded these services entirely from Project Baseline Summary RL-0201

# Hanford Infrastructure

June 2017



*Maintaining utility lines and managing electrical fires*



## ***Water Systems***

- Over 95 miles of buried pipe
- 800 million gallons of water used annually

## ***Electrical Utilities***

- 246 miles of power lines
- 6,000 power poles
- Loads will double with Waste Treatment Plant

## ***Emergency Services and Immobilization Systems***

- Radio Fire Alarm Reporting is essential to the safety and security of facilities and employee welfare

## ***Information Technology***

- Legacy applications
- Cyber security

## ***Roads***

- Over 5,700 passenger vehicles (daily average)
- 350+ lane miles of paved roads
- 500 trips by heavy haul trucks (daily average)



*Repairing water lines*

*RL Budget Overview*

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# PROJECT WORK – RIVER CORRIDOR



# River Corridor – RL-0012

June 2017

## FY 2018 Planned Accomplishments

### K West Reactor Basin Closure, RL-0012

- Operate and maintain K Basin, a Category 2 nuclear facility, and associated structures in a safe and compliant manner and support required surveillance and maintenance activities
- Continue preparations to remove contaminated sludge off the river
  - Complete readiness reviews required at T-Plant to support sludge operations
  - Initiate sludge removal operations to move sludge from the 105 KW Basin to T-Plant for interim storage

### Sludge Removal Project Line Item, RL-0012

- Complete readiness reviews at 105 KW Basin and Annex
- Continue Sludge Transport and Storage Container (STSC) procurements



# River Corridor – RL-0012

June 2017

## Proposed FY 2019 Work Description

### K West Reactor Basin Closure, RL-0012

- Complete sludge removal operations moving sludge from the 105 KW Basin to T-Plant for interim storage



# River Corridor – RL-0041

June 2017

## *FY 2018 Planned Accomplishments*

### **Nuclear Facility D&D – River Corridor Closure Project, RL-0041**

- Support activities for safe K Area Remediation and the 324 Building
- Complete close-out verification sampling and backfill of 618-10 Burial Ground and 316-4 and 600-63 waste sites
- Continue equipment procurement and cell cleanout activities in support of remediation of waste site 300-296
- Continue remediation of 100 K Reactor Area waste sites



*324 Building airlock entry*



*618-10 Burial Ground*



*316-4 Waste Site*

## *Proposed FY 2019 Work Description*

### **Nuclear Facility D&D – River Corridor Closure Project, RL-0041**

- Operate and maintain K Basin, a Category 2 nuclear facility, and associated structures in a safe and compliant manner including required surveillance and maintenance activities
- Support service activities for safe K Area Remediation
- Complete equipment installation and initiate soil removal activities of waste site 300-296
- Continue remediation of 100 K Reactor Area waste sites
- Initiate deactivation of the 105 KW Basin
- Initiate planning for 324 Building D4 activities



*Mock-up of B-Cell floor cutting*



*Waste site remediation*

*RL Budget Overview*

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# PROJECT WORK – CENTRAL PLATEAU



## *FY 2018 Planned Accomplishments*

### **Solid Waste Stabilization and Disposition, RL-0013**

- Continue operation of waste treatment and compliant storage facilities: Central Waste Complex (CWC), solid waste base operations, mixed waste disposal trenches, T Plant, Waste Encapsulation Storage Facility (WESF) and Environmental Restoration Disposal Facility (ERDF)
- Continue to repackage drums of radioactive/hazardous waste and large boxes at Perma-Fix Northwest
- Continue preparations for the movement of cesium and strontium (Cs/Sr) capsules to dry storage

*Shipment of large package  
of transuranic waste to  
Perma-Fix Northwest*



## *Proposed FY 2019 Work Description*

### **Solid Waste Stabilization and Disposition, RL-0013**

- Provide base operations to support safe and compliant storage of special nuclear fuel and Cs/Sr capsules
- Operate waste treatment and compliant storage facilities: CWC, solid waste base operations, mixed waste disposal trenches, T Plant, WESF and ERDF
- Continue to repackage drums of radioactive/hazardous waste and large boxes at Perma-Fix Northwest
- Continue preparations for the movement of Cs/Sr capsules to dry storage

## *FY 2018 Planned Accomplishments*

### **Soil and Water Remediation – Groundwater, RL-0030**

- Continue integration of site-wide groundwater and vadose zone cleanup activities; groundwater contamination monitoring; and operations, maintenance and modifications of existing remediation systems
- Continue operation of River Corridor and Central Plateau Area pump-and-treat facilities for treatment of at least 2.2 billion gallons of contaminated groundwater
- Continue progress toward completing decision documentation for the Comprehensive Environmental Response, Compensation, and Liability Act Remedial Investigation/Feasibility Study process to obtain the final Records of Decision (RODs) for the River Corridor and the Central Plateau
- Continue groundwater remedy implementation for the River Corridor RODs
- Continue to support well drilling commitments in Tri-Party Agreement (TPA) Milestone M-024



*100 F Area*

## *Proposed FY 2019 Work Description*

### **Soil and Water Remediation – Groundwater, RL-0030**

- Continue integration of site-wide groundwater and vadose zone cleanup activities; groundwater contamination monitoring; as well as operations, maintenance, and modifications of existing remediation systems
- Continue operation of River Corridor and Central Plateau Area pump-and-treat facilities for treatment of at least 2.2 billion gallons of contaminated groundwater
- Continue progress on completing the groundwater characterization and supporting decision documentation needed for Comprehensive Environmental Response, Compensation, and Liability Act requirements and to obtain final remediation RODs for operable units in the River Corridor and Central Plateau
- Continue groundwater remedy implementation for the River Corridor RODs
- Continue to support RCRA well drilling commitments in TPA Milestone M-024



*200 West Pump-and-Treat Facility*

# Deactivation and Demolition – RL-0040

June 2017

## *FY 2018 Planned Accomplishments*

### **Nuclear Facility D&D for the Remainder of Hanford, RL-0040**

- Continue surveillance and maintenance activities to ensure safety for inactive waste sites and surplus facilities on the Central Plateau
- Continue facility risk mitigation activities
- Complete remediation of 10 waste sites



*Canyon facility risk mitigation activities*

# Deactivation and Demolition – RL-0040

June 2017

## *Proposed FY 2019 Work Description*

### **Nuclear Facility D&D for the Remainder of Hanford, RL-0040**

- Continue surveillance and maintenance activities to ensure safety for inactive waste sites and surplus facilities on the Central Plateau
- Continue canyon facility risk mitigation activities
- Complete remediation activities for 3 waste sites
- Continue 200 Area remediation in support of TPA milestone series M-016 with focus on U Plant area



*Canyon surveillance and maintenance activities:  
B Plant pre-filter change out*

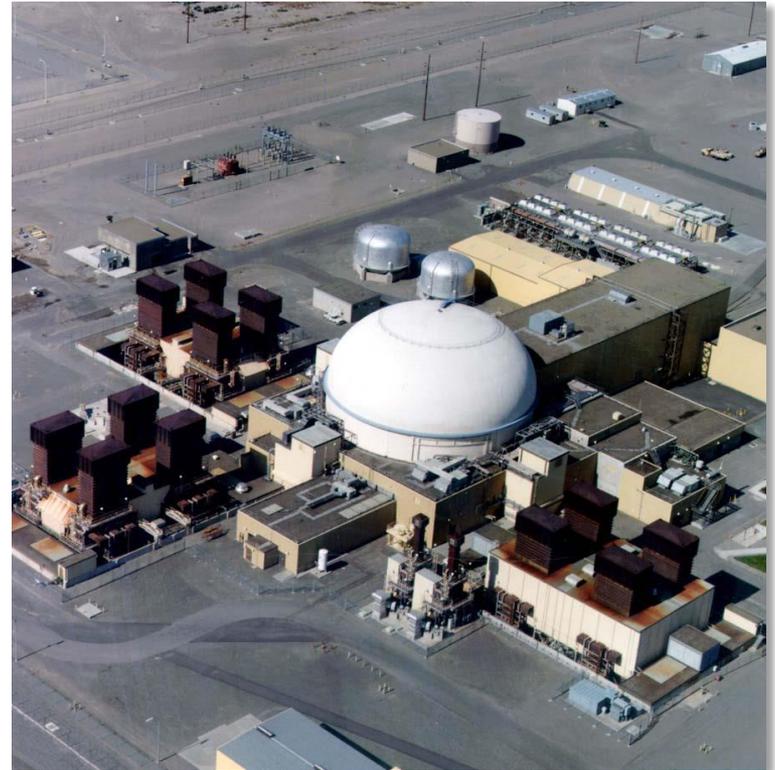
# Fast Flux Test Facility– RL-0042

June 2017

## *FY 2018 Planned Activities and Proposed FY 2019 Work Descriptions*

### **Nuclear Facility D&D Fast Flux Test Facility, RL-0042**

- Support long-term safe and compliant surveillance and maintenance for Fast Flux Test Facility and support facilities
  - Support is required until the residual and bulk sodium is dispositioned and facility deactivation and decommissioning is resumed



# Hanford Site Support – RL-0100

June 2017

## *FY 2018 Planned Activities and Proposed FY 2019 Work Descriptions*

### **Community & Regulatory Support FY 2018 and FY 2019 Requirements**

- Support activities related to Hanford cleanup

# Hanford Site Support – RL-0020/0025

June 2017

## *FY 2018 Planned Activities and Proposed FY 2019 Work Descriptions*

### **Safeguards and Security (SAS)**

- Maintain safe SAS services at the Hanford Site, including Category 1 special nuclear material
- Maintain programs including: cyber security, protection program management, emergency response, physical security, information protection, protective force, personnel security, and nuclear material control & accountability at the Hanford Site for RL and ORP



*Hanford Protective Force training exercise*



*Hanford Patrol K-9 conducting vehicle search at the Patrol Training Academy*

# Site-Wide Services – RL-0201

June 2017

## *FY 2018 Planned Activities and Proposed FY 2019 Work Descriptions*

- Provide site-wide services for day-to-day operations and cleanup support
- Fund RL-direct services including but not limited to roads and transportation services; electrical and water services; facility maintenance; network and software engineering; and records management
- Support infrastructure upgrades and site maintenance

