

# **Environmental Management Office of River Protection**

## **Public Meeting** **FY 2016 President's Budget** **FY 2017 Estimated Requirements**



*Jonathan (JD) Dowell, Deputy Manager*  
*April 28, 2015*

# Hanford Cleanup Work – Office of River Protection (ORP)

April 2015

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- Manage 56 million gallons of waste in single-shell and double-shell tanks
- Construct Waste Treatment and Immobilization Plant (WTP)
- Treat tank waste for disposition



C-102 Single Shell Tank

# 2015 Key Cleanup Priorities – Safety First!

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- Safe Nuclear Operations and Base Operations
- Low Activity Waste Facility, Balance of Facilities, Analytical Laboratory
- Direct-Feed Low Activity Waste
- Tank Waste Retrievals
- Effluent Treatment Facility Transfer
- WTP High-Level Waste Technical Issues Resolution
- WTP Pretreatment Technical Issues Resolution

# Key Regulatory Cleanup Drivers

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- Tri-Party Agreement (Hanford Federal Facility Agreement and Consent Order, signed in 1989) Agreement between U.S. Department of Energy (DOE), State of Washington and U.S. Environmental Protection Agency (EPA)
- Consent Decree (State of Washington v. DOE, No. 08-5085-FVS (E.D. Washington.), signed in 2010)

# Prime Contracts – Office of River Protection

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Bechtel National, Inc.

## Waste Treatment and Immobilization Plant WTP

Design, Construction, and Commissioning of the Hanford WTP

Awarded in 2000  
Total Current Contract Value: \$11.3B  
Cost-plus, award-fee



## Tank Operations Contract TOC

Monitor and manage the 177 underground storage tanks at Hanford, prepare for and provide waste feed delivery to the WTP.

Awarded in 2008 for 5 years with 3 and 2 year options  
Total Contract Value: \$5.6B  
Cost-plus, award-fee  
Option period one exercised

# Office of River Protection Profile

April 2015

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(\$ in Thousands)

PBS	Project Baseline Summary (PBS) Title	FY 2015 Appropriation	FY 2016 President Budget
ORP-0014	Radioactive Liquid Tank Waste Stabilization and Disposition	\$ 522,000	\$ 649,000
ORP-0014	15-D-409, Low Activity Waste Pre-Treatment System	\$ 23,000	\$ 75,000
<b>Subtotal</b>	<b>Radioactive Liquid Tank Waste Stabilization and Disposition</b>	<b>\$ 545,000</b>	<b>\$ 724,000</b>
ORP-0060	WTP – Subprojects A-D	\$ 563,000	\$ 595,000
ORP-0060	WTP – Subproject E	\$ 104,000	\$ 95,000
<b>Subtotal</b>	<b>Major construction – Waste Treatment and Immobilization Plant (WTP)</b>	<b>\$ 667,000</b>	<b>\$ 690,000</b>
<b>Total – ORP</b>	<b>Office of River Protection Funding Summary</b>	<b>\$1,212,000</b>	<b>\$1,414,000</b>

*Project Work*

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# OFFICE OF RIVER PROTECTION OVERVIEW

*Pre-Decisional Information*



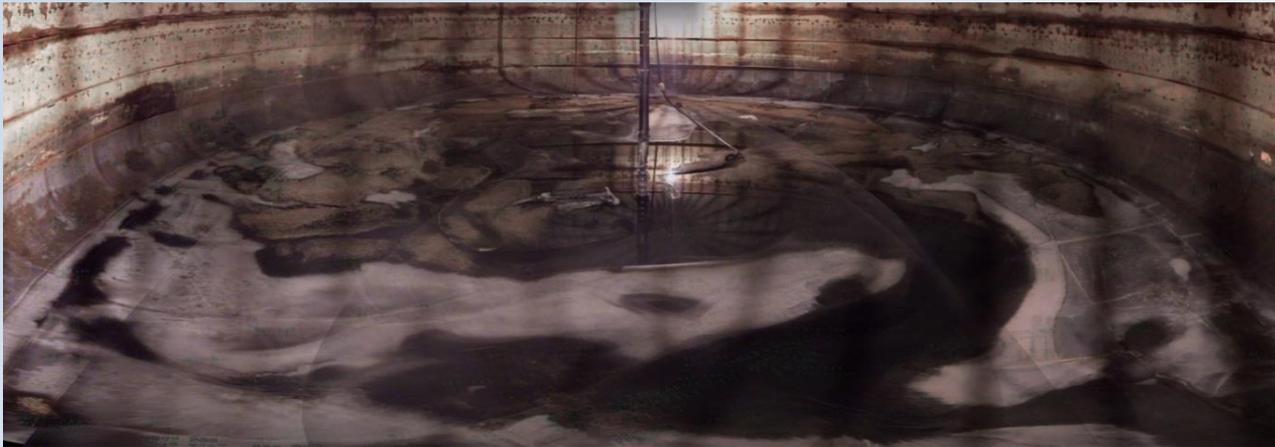
# Tank Farms – ORP-0014

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## Planned Activities FY 2016

- Maintain Tank Farms in a safe and compliant manner
- Conduct 222-S Laboratory operations
- Conduct 242-A Evaporator campaigns
- Conduct Effluent Treatment Facility Operations
- Continue single-shell/double-shell tank integrity assessments
- Continue activities necessary to commence A/AX Tank Farm single-shell tank retrievals
- Initiate final design and long-lead procurements for Low Activity Waste Pretreatment System (LAWPS) project



Inside of C-110 after 2<sup>nd</sup> Retrieval Technology Completed

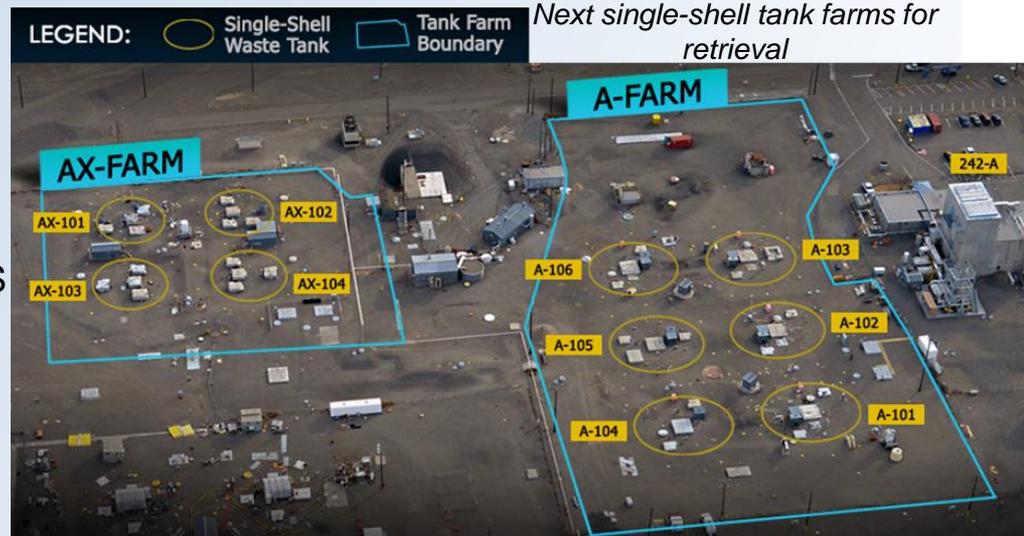
# Tank Farms – ORP-0014

April 2015

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## FY 2017 Planned Activities

- Maintain Tank Farms in a safe and compliant manner
- Conduct 222-S Laboratory operations and upgrades
- Conduct 242-A Evaporator campaigns and upgrades
- Conduct Effluent Treatment Facility operations and upgrades
- Continue single-shell and double-shell tank integrity activities
- Continue design of LAWPS project
- Continue activities necessary to commence A/AX Tank Farm retrievals
- Continue double-shell tank AY-102 actions
- Initiate system planning update activities
- Modification to Tank Farm for feed to LAWPS



# Waste Treatment and Immobilization Plant – ORP-0060

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## Planned Activities through FY 2016

### Low Activity Waste Facility, Analytical Laboratory, High Level Waste Facility, and Balance of Facilities

- Complete Low Activity Waste (LAW) Facility Thermal Catalytic Oxidizer installation
- Complete LAW Facility Melters 1 and 2 installation
- System start-up begins for LAW Facility and Analytical Laboratory (LAB)
- Complete LAB temporary control room
- Methods development initiated for direct feed low activity waste
- Continue High-Level Waste (HLW) Facility technical issue resolution
- Continue HLW Facility construction of walls and slabs at +58' elevation
- Activities to support the annual updates to the HLW Facility Preliminary Documented Safety Analysis (PDSA)
- HLW long lead procurement items supporting construction



Low Activity Waste Facility



Analytical Laboratory



Balance of Facilities

# Waste Treatment and Immobilization Plant – ORP-0060

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## Planned Activities through FY 2016

### Pretreatment Facility

- Continue resolution of technical issues



Pretreatment Facility

# Waste Treatment and Immobilization Plant – ORP-0060

April 2015

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## FY 2017 Planned Activities

### Low Activity Waste Facility, Analytical Laboratory, High Level Waste Facility, and Balance of Facilities

- Completion of LAW Facility Design Calculation Verification
- LAW Facility construction complete
- HLW Facility civil build out of +58' elevation
- Receive RLD-VSL-00007 (Acid Waste Vessel) and RLD-VSL-00008 (Plant Wash Vessel)
- HLW Facility Design and Operability studies in accordance with the action plan
- HLW Facility closure packages in support of full Authorization to Proceed
- Support HLW Facility long lead procurement items
- LAW, Balance of Facilities and LAB commissioning activities



High-Level Waste Facility



Low-Activity Waste Facility



Balance of Facilities

# Waste Treatment and Immobilization Plant – ORP-0060

April 2015

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## *FY 2017 Planned Activities*

### **Pretreatment Facility**

- Continue resolution of technical issues



Pretreatment Facility

# Tri-Party Agreement Milestones (FY 2016)

April 2015

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Number	Milestone	Due Date
M-045-92N	Construct Barriers 1 and 2 in 241-SX Farm	10/31/2015
M-062-01AF	Submit Semi-Annual Project Compliance Report	01/31/2016
M-047-07	Submit Critical Decision (CD)-1 for Secondary Liquid Waste Treatment and Change Request for CD-2 to Ecology	03/31/2016
M-090-13	CD-1 for Interim Hanford Storage Project and Change Request for CD-2 to Ecology	03/31/2016
M-045-92Q	Submit Barrier 4 Design/Monitoring Plan	06/30/2016
M-062-01AG	Submit Semi-Annual Project Compliance Report	07/31/2016
M-045-56L	Ecology, EPA and DOE agree, at a minimum to meet yearly (by July)	07/31/2016

# Working Together for a Shared Vision

April 2015

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- We are committed to maintaining worker and public safety and protecting the environment
- ORP is committed to continued progress at the Hanford Site
- ORP has a strategy, vision and plan, and will continue to work together with EPA, Ecology and our Stakeholders to ensure continued success
- We appreciate and desire your continued input

