

# **DOE-ORP Update**

## **Oregon Hanford Cleanup Board**

Jon Peschong, Director, WTP Project Controls Division

Nov. 5, 2018







ORP Mission: To safely manage the waste in Hanford's underground tanks while delivering the waste treatment capability needed for waste immobilization and final disposition

















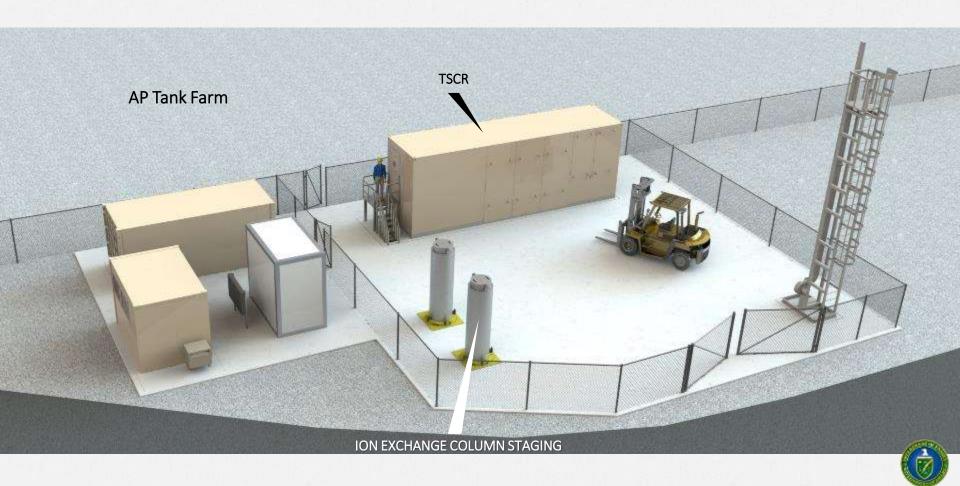


#### **DFLAW Execution Overview**





## **Conceptual TSCR Layout**







## **DFLAW Immobilization Facilities**









# State approves permit to complete construction









## **Transition to Operations**

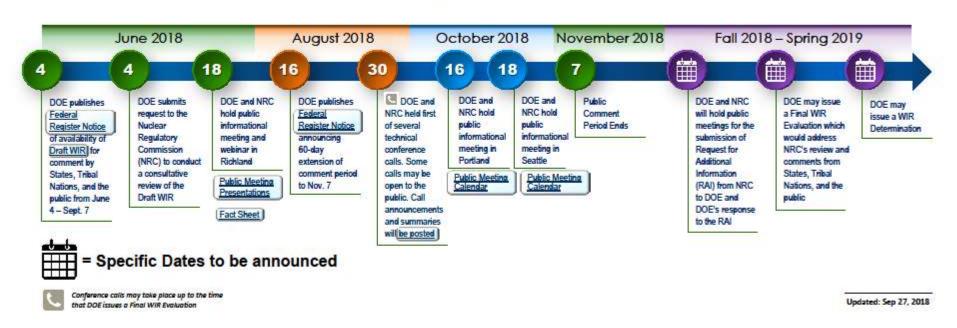






## Waste Incidental to Reprocessing (WIR) Evaluation for Closure of C Tank Farm

## Working Timeline for the Draft Waste Incidental to Reprocessing Evaluation (WIR) for Closure of Waste Management Area C at the Hanford Site



Public meetings held October 16 & 18 in Portland & Seattle
Comment period ends November 7







September 2018













Waste retrieval in AX Farm set to begin in summer 2019



#### **AW-103 Pump Removal Project**



# Liquid Effluent Retention Facility

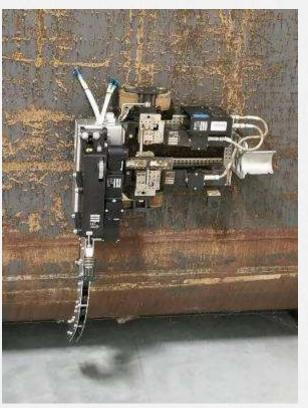
Prefabricated panels of polyethylene rubber were bonded together inside one of three massive LERF basins. The new cover is resistant to chemicals, temperature extremes and ultraviolet light.

The pump from Tank AW-103 is safely removed and packaged for shipment to Hanford's Environmental Restoration Disposal Facility (ERDF)





# Visual inspection systems navigate refractory of double-shell tank



Deployment of two crawlers in the refractory of AP-107 was the culmination of years of research and collaboration with experts in robotics and nondestructive examination.





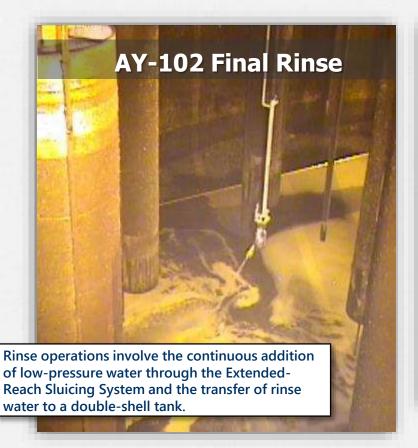
#### 222-S Laboratory room and HVAC system renovated





The remodel of one of the 222-S Laboratory rooms included installation of new walls and floors, vent hoods, gas piping and other equipment. The lab is a 70,000-square-foot full-service analytical facility that handles highly radioactive samples in support of Hanford cleanup.







Workers install a section of barrier in SX Farm.



## **Chemical Vapor Protection Update**





Settlement Agreement on vapors litigation reached Sept. 19, 2018



## **Army Corps of Engineers Analysis**



PARAMETRIC EVALUATIONS OF THE

WASTE TREATMENT AND IMMOBILIZATION PLANT

Prepared for:



U.S. Department of Energy

Secretary of the



U.S. Army Corps of Engineers FINAL

July 10, 2018



## **ORP Budget Profile**

#### (\$ in Thousands)

| PBS            | Project Baseline Summary (PBS) Title                                | FY 2018<br>Omnibus | FY 2019<br>Omnibus |
|----------------|---|--------------------|--------------------|
| ORP-0014       | Radioactive Liquid Tank Waste Stabilization and Disposition         | \$719,000          | \$771,947          |
| ORP-0014       | 15-D-409, Low Activity Waste Pretreatment System                    | \$93,000           | \$56,053           |
| Subtotal       | Radioactive Liquid Tank Waste Stabilization and Disposition         | \$812,000          | \$828,000          |
|                |   |                    |                    |
| ORP-0060       | WTP-LBL   | \$630,000          | \$655,000          |
| ORP-0060       | High Level Waste Facility   | \$75,000           | \$60,000           |
| ORP-0060       | WTP – Subproject E  | \$35,000           | \$15,000           |
| Subtotal       | Major construction – Waste Treatment and Immobilization Plant (WTP) | \$740,000          | \$730,000          |
|                |   |                    |                    |
| ORP-0070       | WTP Commissioning   | \$8,000            | \$15,000           |
| Total –<br>ORP | Office of River Protection Funding                                  | \$1,560,000        | \$1,573,000        |

## **Key Budget Priorities**



- Safe operations
- Direct Feed Low-Activity Waste (DFLAW)
  - Low Activity Waste (LAW) Facility, Effluent Management Facility (EMF), Balance of Facilities (BOF), Analytical Laboratory (Lab) – referred to collectively as LBL
  - Tank Farms upgrades to support DFLAW
  - LAW pretreatment
    - Tank Side Cesium Removal (TSCR) design & equipment
- Continued progress on tank waste retrieval and closure



## **Future Acquisitions**

#### **Current Contracts**

#### Future (FY 2019-2029)

#### Occupational Medical Services (OccMed)

- · Provides Medical Monitoring
- Qualification Exams
- Occupational Health related Diagnosis and First Aid

Expires: 12/31/2018

#### Occupational Medical Services (OccMed)

- Firm Fixed Price, Cost Reimbursement, Indefinite Delivery/Indefinite Quantity (IDIQ)
- 7 year contract (3+2+2)

#### Mission Support Contract (MSC)

 Cost-effective Infrastructure and Site Services to support the Cleanup Mission

Expires: 5/25/2019

## Additional Opportunities for Small Business

Similar

Scope

#### Hanford Mission Essential Services Contract (HMESC)

- · Cost Plus Award Fee, Cost Reimbursement, IDIQ
- 10 year contract (5+3+2)

#### Plateau Remediation Contract (PRC)

- · Facility and Waste Site Cleanup
- Groundwater Remediation
- Waste Management

Expires: 9/30/2019

#### Transferred Scope

#### **Central Plateau Cleanup Contract (CPCC)**

- Cost Plus Incentive Fee, Cost Reimbursement, IDIQ
- 10 year contract (5+5)

#### 222-S Analytical Laboratory Services (222-S)

- Provides Analytical Services Production functions of Receiving, Handling,
- Analysis, and Storing of Samples
- · Reporting the results of Analysis to Contractors of DOE

Expires: 9/20/2020

#### Includes New Scope

#### 222-S Laboratory (222-S Lab)

- · Cost Plus Award Fee, Cost Reimbursement
- 7 year contract (3+2+2)

#### **Tank Operations Contract (TOC)**

- · Store, Retrieve, and Treat Tank Waste
- Store and Dispose of Treated Waste
- Close the Tank Farm Waste Management Areas

Expires: 9/30/2019

#### Includes New Scope

#### Tank Waste Cleanup Contract (TWCC)

- TBD
- 10 year contract

Note: Bechtel National, Inc. provides engineering, procurement, construction, and commissioning of the Waste Treatment and Immobilization Plant and is not part of these acquisitions.



- Focusing on safe and efficient mission execution
- Preparing for DFLAW operations
- Collaborating with Washington Department of Ecology and all key stakeholders for successful project delivery









## "Protecting our workers, the public, and the environment"

The Hanford Reach
White Bluffs Overlooking the Columbia River