



THE HANFORD SITE

U.S. Department of Energy Update

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9 December 2020

- Safety Message
- Department of Energy Update
 - Overview for new members
 - Progress overview
 - COVID-19 update
 - Planned progress
- Summary



Capsule dry-storage pad under construction



Capsule transfer mock-up

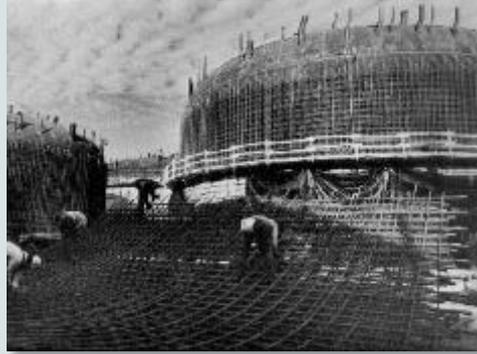
National Defense: Hanford Plutonium Production

World War II and Post War Era (1944-55)



~6 tons plutonium

Cold War Era (1947-1991)



~68 tons plutonium

Hanford Reactors:

- B Reactor 1944-1968
- D Reactor 1944-1967
- F Reactor 1945-1965
- H Reactor 1949-1965
- DR Reactor 1950-1964
- C Reactor 1952-1969
- KW Reactor 1955-1970
- KE Reactor 1955-1971
- N Reactor 1963 -1987

**Total: 74 tons
plutonium**

Cleanup Progress to Date



NINE reactors | **SIX** cocooned | **ONE** preserved



600 tons of **contamination** removed from groundwater



26 billion gallons of **groundwater** treated



100% of the site's **spent fuel** has been moved to dry storage



HANFORD CLEANUP #s
by the **NUMBERS**



18.7 million tons of **soil/debris** moved to engineered landfill



914 **Facilities** demolished



1,353 **waste sites** remediated



12,687 cubic meters of **plutonium-**contaminated waste retrieved

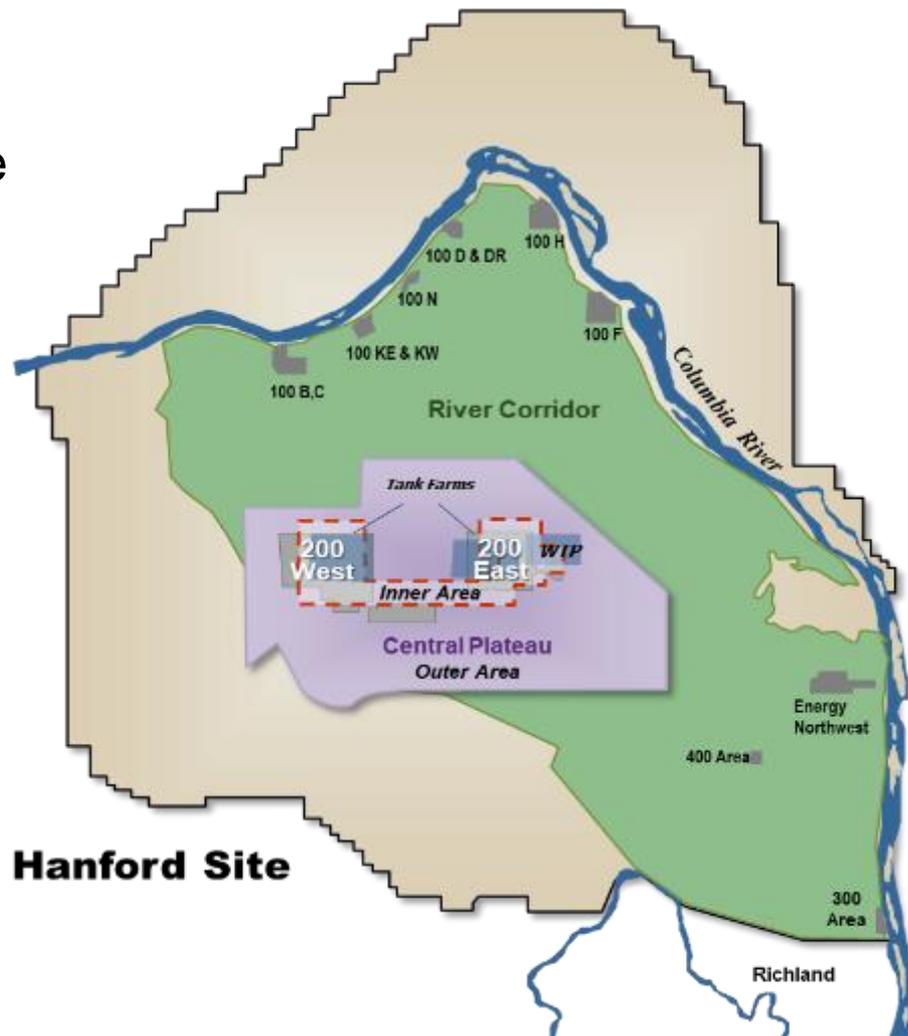
Mission: Safe, efficient, and effective cleanup that is protective of the workforce, the public, and the environment

Two DOE Offices:

- Richland Operations
- Office of River Protection

Key Cleanup Activities:

- Manage, treat, and dispose of tank waste
- Demolish facilities
- Stabilize aging structures
- Treat contaminated groundwater



- Worker Health and Safety
- Operations/Project Delivery Excellence
- Fair and Demanding Customer
- Stakeholder Engagement
- One Hanford Teamwork



Pre-COVID Hanford Advisory Board Meeting



Laboratory chemists work inside facility



Workers in personal protective equipment



2020 Drive Up Flu Clinic



COVID Testing Station



COVID Controls

Direct-Feed Low-Activity Waste



Inside the Effluent Management Facility

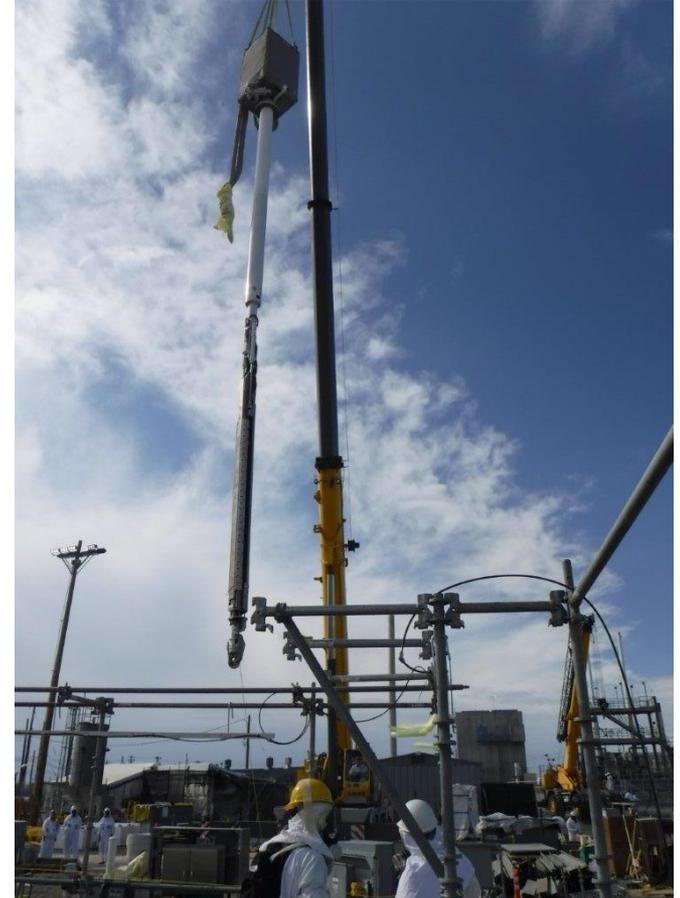


Tank-Side Cesium Removal system
concrete shield wall construction

Risk Reductions: Tank Farm Retrievals



Tank AX-102 retrieval



Tank AX-104 retrieval preparations

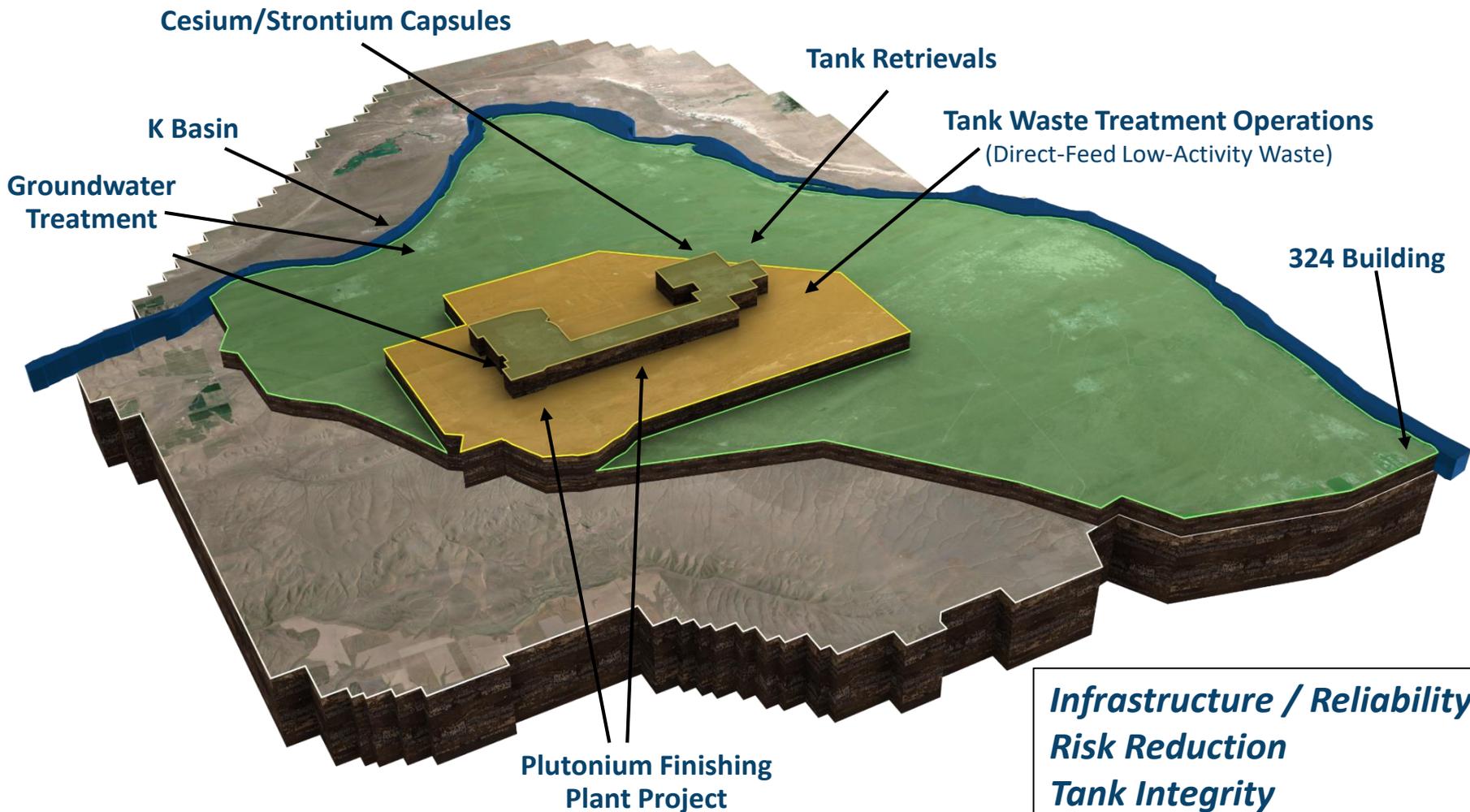
Risk Reduction: River Corridor / Central Plateau



Interim stabilization of aging underground structures



Planned Progress



*Infrastructure / Reliability
Risk Reduction
Tank Integrity
Acceleration Opportunities*

Budget and Planning Timeline

***During OMB’s Agency Formulation Phase, Budget Allocations are Embargoed and NOT Releasable Outside of the Administration**



◆ OMB Issues Spring Guidance

ID Major Issues; Dev/Analyze Options, Plan Analysis of Issues Needing Future Dec.

Submit Budgets to OMB



OMB and Agency Formulation Phase (Cont.)

OMB Conducts Fall Review

◆ OMB Briefs the President and Senior Advisors

◆ Passback. OMB Informs Agency of Budget Decisions

Budget Appeals Process

Prepare Justification Materials

◆ President Submits Budget to Congress



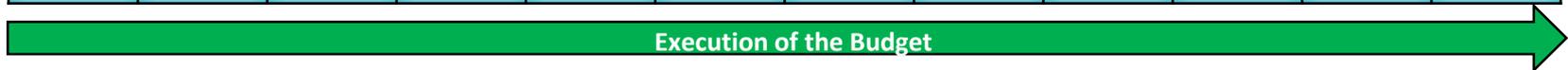
CBO Reports to Budget Committees on the Economic and Budget Outlook

CBO Re-estimates Pres. Budget request Based on their Technical and Economic Assumptions

House and Senate Submit Views and Estimates and Committees Indicate Preferences

◆ Congress Completes Resolution on the Budget

Congress Completes Appropriations Actions or Passes a CR by Sept. 30



- FY20:
 - Progress in spite of challenges
 - Communications and teamwork
- FY21: Change and Opportunity
 - Remobilization
 - Contract Transitions
 - Preparations for DFLAW Operations