

THEHONFORDSITE

Hanford Cleanup: Past, Present, Future

National Cleanup Workshop Brian Vance, Hanford Site Manager

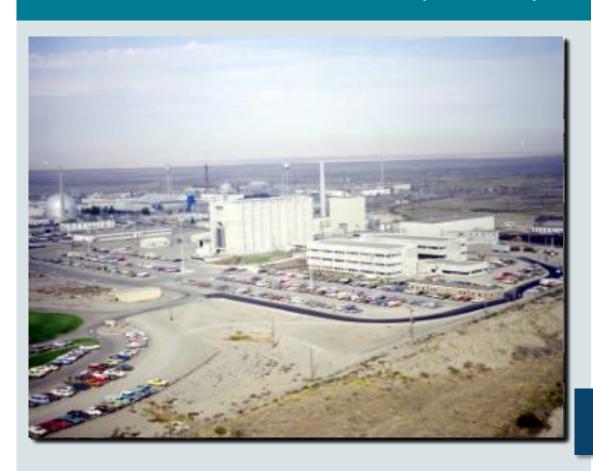






National Defense: Hanford Plutonium Production

World War II thru the Cold War Era (1944-1991)



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





Key Regulatory Drivers

- Atomic Energy Act of 1954
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
 - Three active National Priority List (NPL) sites at Hanford – 100, 200 and 300 Areas; 1100 Area removed from list in 1996
 - Facility cleanout, demolition and waste site cleanup



- Resource Conservation and Recovery Act (RCRA)
 - State of Washington delegated authority by EPA
 - Safe storage, treatment and disposal of hazardous waste
- Tri-Party Agreement (Hanford Federal Facility Agreement and Consent Order, signed in 1989)
 - Agreement between DOE, State of Washington and EPA
 - A living document that provides framework to implement and comply with regulations



THE HANFORDSITE | F Reactor Area: A First







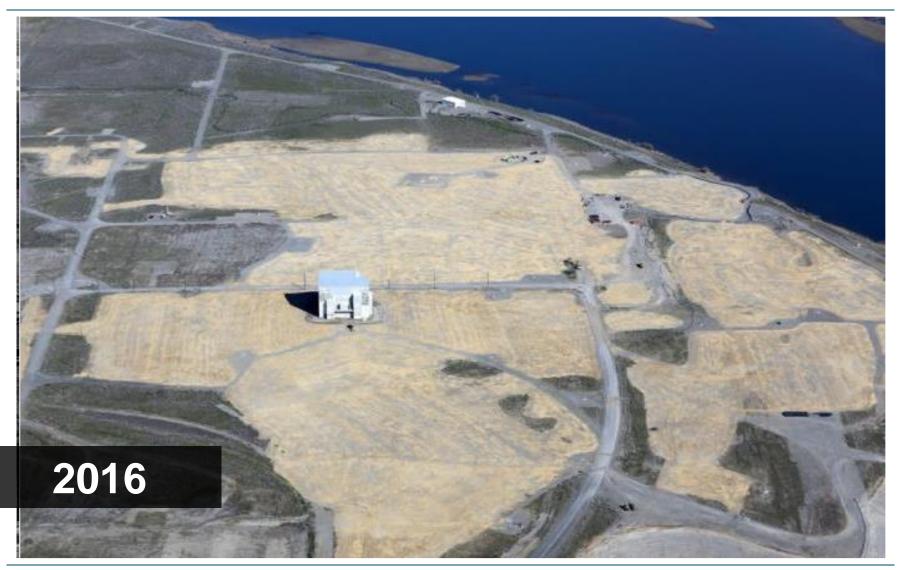
THE HANFORDSITE D and DR Reactor Areas





THEHANFORDSTTE

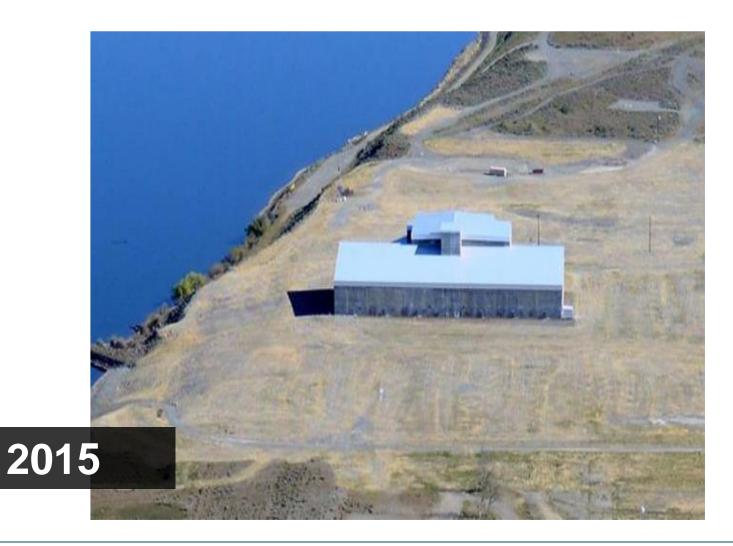
H Reactor Area







N Reactor Area







K East Reactor







300 Area Cleanup







THEHANFORDSITE

Ty Blackford CH2M HILL Plateau Remediation Company

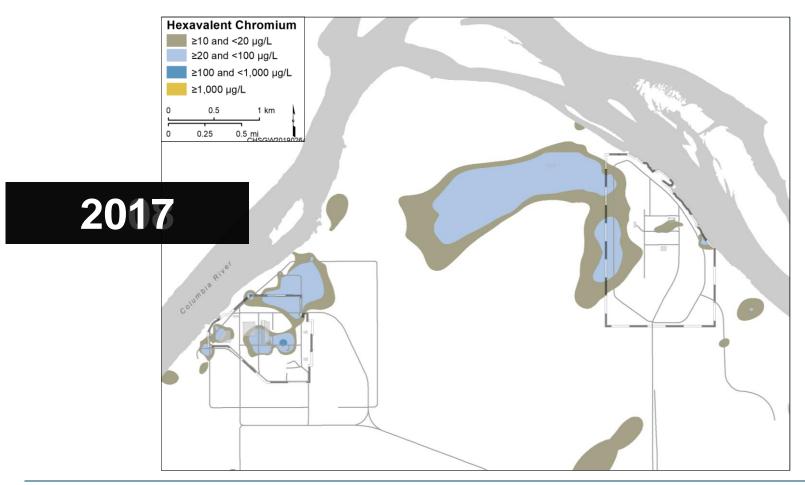






Protecting the River

100-H Hexavalent Chromium Remedy Progress

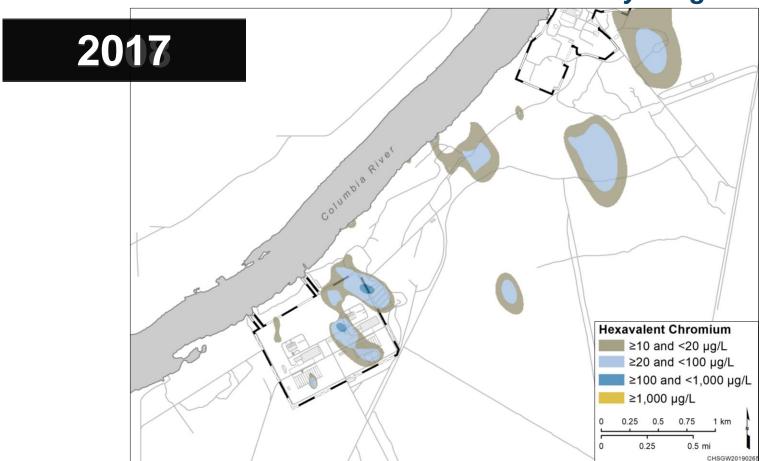






Advancing 100-K Completion

100-K Hexavalent Chromium Remedy Progress







Advancing 100-K Completion

100-K Footprint Reduction





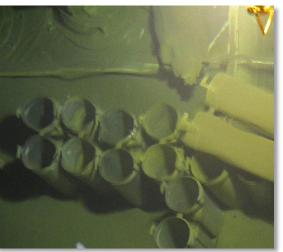


Advancing 100-K Completion

Significant Steps Toward Closure



Last Container of Sludge Shipped on September 9



Legacy Debris Removal Planning



Planning for Safe Storage





Risk Reduction Across the Site

Waste Site Along Public Highway Cleaned Up







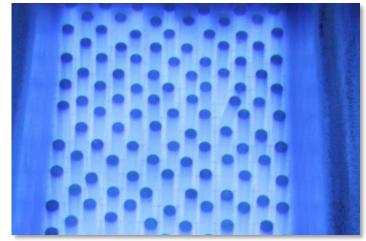
Risk Reduction Across the Site

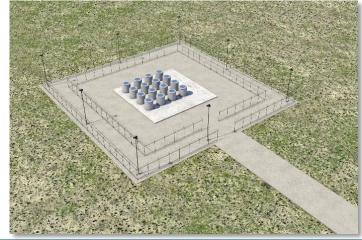
Risk Reduction in the 300 Area





Radioactive Capsules to Dry Storage

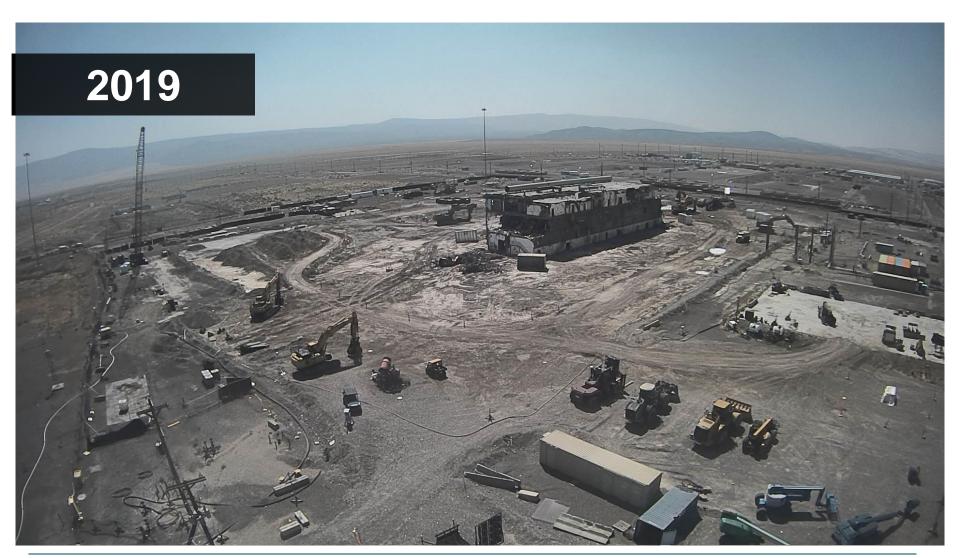








Plutonium Finishing Plant







Risk Reduction to Support 24/7 Ops

Highest-Hazard Building Demolished

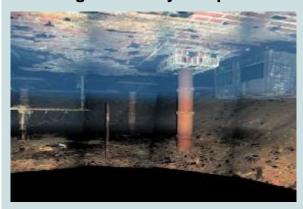


Plutonium Finishing Plant: August 2010



Plutonium Finishing Plant: 2020

Risks Ranked for Mitigation, Ensuring Continuity of Operations



Z-9 Crib...



Waste Tunnels...

Risks Ranked for Mitigation, Ensuring Continuity of Operations



... Near Site Laboratory



.. Near Disposal Facility for Vitrified Waste





THEHANFORDSITE

John Eschenberg Washington River Protection Solutions





THEHANFORDSITE

DFLAW







Proven Performance

Risk Reduction



Infrastructure Improvement













THEHANFORDSITE

Valerie McCain Bechtel







Vit Plant Jobsite Evolution







Progress in Startup, Testing





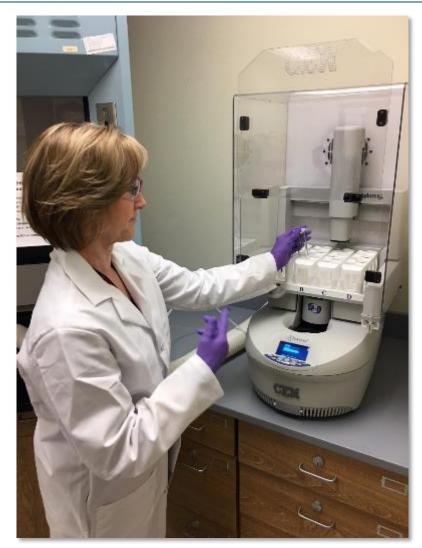








Preparing for Commissioning, Operations











THEHONFORDSITE

Bob Wilkinson Mission Support Alliance



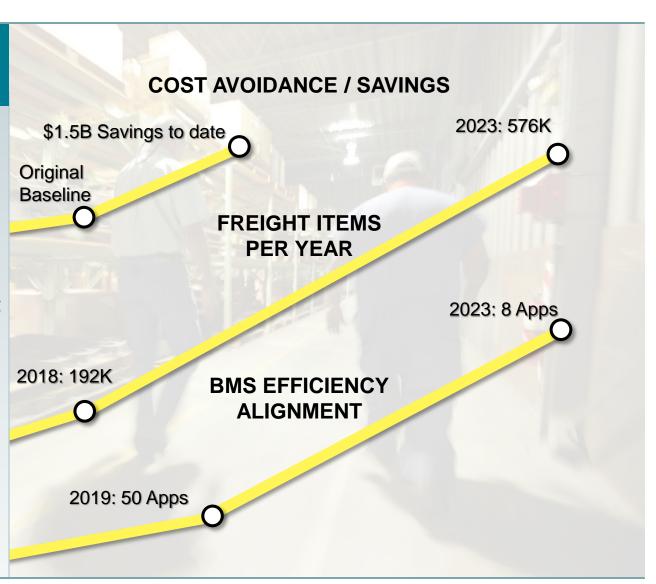




Hanford Essential Services



- Payroll, Pensions, Small Business Utilization
- Portfolio Management
- Supply Chain & Warehouse
- Business Management System
- Integration and Interface





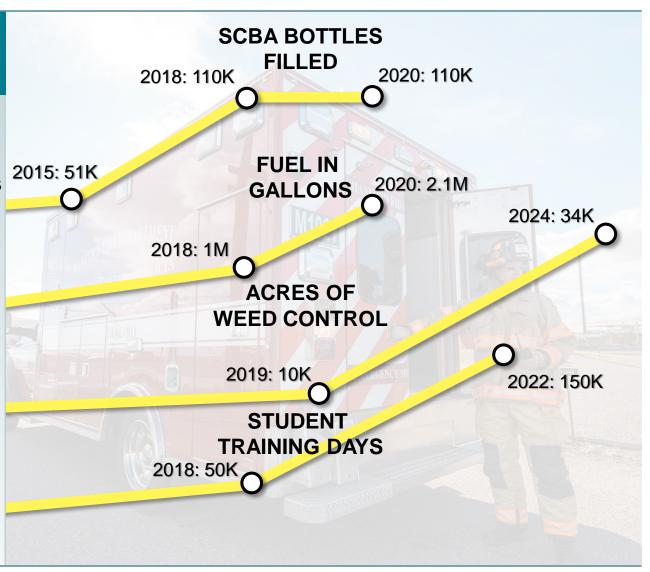


THE HANFORD SITE Hanford Essential Services



Support Services

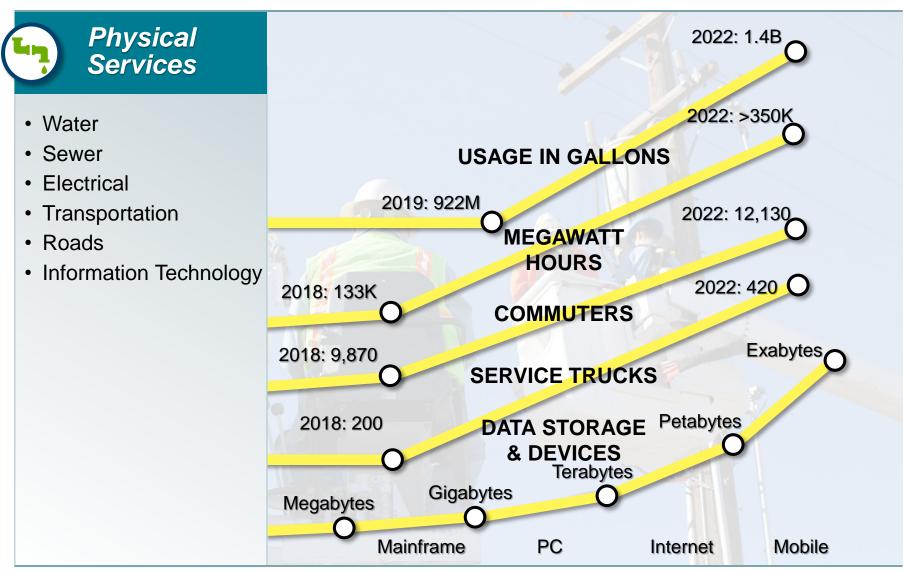
- Emergency Response
- Site Security
- Sitewide Craft Services
- Environmental Services
- Sitewide Training
- Fleet
- Crane and Rigging
- Meteorology
- Fire System Maintenance
- Project/Construction Services







Hanford Essential Services





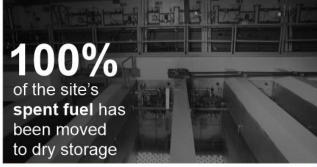


Hanford Cleanup Progress















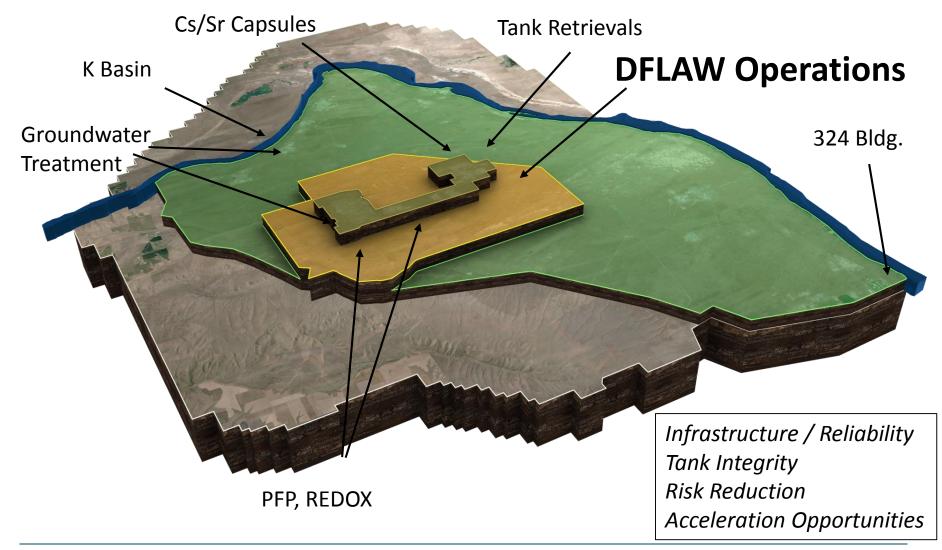






THEHANFORDSITE

Next 5 Years







Transition to 24/7 Operations







Stakeholder Engagement





THEHANFORDSITE

High Performing Team



