Washington Closure Hanford: Cleaning up the River Corridor

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River Corridor Closure Project

DOE’s Largest Environmental Management Cleanup Closure Project

Client:

Scope:
1) Remove hundreds of excess nuclear facilities
2) Place deactivated plutonium production reactors in interim safe storage
3) Clean up waste sites and burial grounds
4) Manage Hanford site waste disposal facility

- $2.7B contract
- Cost-plus incentive fee contract
- Making great progress
- Project is 92% complete
  - 321 buildings remediated
  - 526 waste sites cleaned up

Partners:

AECOM 40%  
BECHEML 30%  
CH2M 30%

River Corridor
(220 square miles and 46 linear miles along the Hanford portion of the Columbia River)

Environmental Restoration Disposal Facility (ERDF)

100 Area Reactors

Hanford Site Boundary (566 sq. miles)

Central Plateau

Former Fuel Production and Laboratories (300 Area)

One Team for Safe, Visible Cleanup of the River Corridor

Washington Closure Hanford – March 2015
Success in Project Performance

- Saved $285M in cleanup costs through efficiencies and reinvested it back into the project
- CPI = 1.12
- Transported and disposed 11 million tons of hazardous waste to Hanford’s disposal facility
- More than $1 billion in small business subcontract awards
- Met 100% of regulatory milestones
- Managing contract changes

Radiological Liquid Waste System piping in the 300 Area was stabilized, removed, and disposed of at ERDF.
Success in Project Performance

100-N Reactor Area

2005

December 2014

100-N Cleanup

- 726,000 tons of clean material was used to backfill 98 remediated waste sites
- Revegetated with more than 3,000 pounds of native bunchgrass seed, and approximately 78,000 shrub tubelings planted
- Backfill left the area with more natural appearance, using contouring and boulders
Success in Project Performance

100-B/C Reactor Area

100-C-7 Waste Site Cleanup

• More than 120 acres cleaned up; 2.5 million tons of waste material removed

• Revegetated with native bunchgrasses and roughly 52,000 tubelings of three different native plant species

• Using contouring and boulders, backfilling left the area with a more natural appearance
Success in Project Performance

300 Area

300 Area Cleanup

- Located 1.5 miles north of the city of Richland, close to the Columbia River
- Center of Hanford’s radiological research and fuel fabrication during the Manhattan Project and Cold War
- 171 facilities demolished
- 91 waste sites cleaned up
Success in Project Performance

100-D Reactor Area

100-D Area Cleanup

• Have removed what is believed to be Hanford's primary source of chromium contamination to the Columbia River
• Two major chromium sites completed
• More than 60,000 tons of chromium-contaminated soil was sent to the Environmental Restoration Disposal Facility (ERDF) and treated
Contract Work Remaining in FY 2015

- Hazardous 618-10 Burial Ground in progress
- Cleanup and transition 84 square miles
- Complete 300 Area waste sites
- Complete design for the 324 Building waste site
- Complete remediation and backfill of waste sites in B, C, N, D, and H Reactor areas
- Closeout planning under way

The 618-10 Burial Ground is one of the most highly contaminated waste sites on the River Corridor.

Soil samples found hazardous levels of contamination of more than 12,000 R/hr below a 324 Building hot cell.
WCH Closeout Closure Plan

• Finishing is hard
• Plans in place to be “done-done” at contract completion
  – Finalize paperwork in weeks, not years
Progress Toward Placement

270 Employees* have exited the project since January 2012...

188 of those employees let us know they wanted another job.

181... have already found their next job! 96% 01/30/2015

*non-represented WCH employees