Cleanup of Hanford’s legacy of plutonium production continues, with state-of-the-art waste and groundwater treatment facilities, demolition of hundreds of facilities, and cleanup of hundreds of sites with contaminated soil and waste.

Right-sizing and renovating Hanford’s infrastructure for continued safe and effective cleanup operations is ensuring the Department continues to protect workers, the public, and the environment as land is restored for controlled public access and use.
Hanford's Infrastructure Story

- 1943-1980's: Hanford was established during WWII to support the Manhattan Project. Production and research was expanded during the Cold War. Nine production reactors, several test reactors, hundreds of buildings and structures for chemical processing and laboratory research were built in this period, along with accompanying electrical, water, and sewer systems, as well as transportation infrastructure (roads, railways).

- 1980's-2005: The Cold War ends, production of plutonium at Hanford ceases, and a new era begins to assess and clean up a legacy of extensive contamination in facilities, soil, and groundwater. In 1989, a landmark agreement was reached between the U.S. Department of Energy, the U.S. Environmental Protection Agency and the State of Washington, called the Tri-Party Agreement. This agreement formed a framework for monitoring and cleanup of Hanford’s legacy contamination, one of the largest cleanup efforts in the world. Cleanup work began, some major cleanup projects and infrastructure upgrades were completed. Information technology upgrades are installed.

- 2005-2015: Cleanup efforts in areas along the Columbia River, which runs through the site, near completion, shrinking the active footprint of cleanup area to Hanford’s Central Plateau and inner areas. During this era, DOE maintains Hanford’s critical infrastructure, and the need for upgrades to infrastructure is known.

- Beyond 2015: Renovation and right-sizing of Hanford’s infrastructure is needed as most future cleanup efforts at the site are concentrated in Hanford’s Central Plateau (includes Tank Waste Treatment Plant (T WTP)). Renovation needs include the site’s systems for raw and potable water, electricity, sewer, information technology and transportation.

FY18 Planned Projects

- Complete replacement of 181D water pumping system and 24-inch diameter E-W water pipe at 100D (replaces 42-inch diameter pipe)
- Initiate upgrade of the new 2101M in 200E
- Continue replacement of T-Plant fire water supply
- Replace 8 major water mains on the Central Plateau
- Complete Phase II Upgrade to Local Area Network (Access Layer)

A Look Ahead

FY17 Planned Projects

- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe)
- Modify the 283W Clearwell.
- Continue upgrades to the 400 Area Fire Station and the emergency siren system
- Remodel and upgrade the 200E Fire Station
- Continue sewer consolidations and flow equalization

FY16 Planned Projects

- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe) and modify the 283W Clearwell.
- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100D (replaces 42-inch diameter pipe)
- Continue replacement of T-Plant fire water supply
- Complete sewer consolidations and flow equalization
- Install 12-inch potable water loop line to WTP
- Replace 8 major water mains on the Central Plateau
- Complete Phase II Upgrade to Local Area Network (Access Layer)
- Complete replacement of obsolete fire alarm panels inside selected support facilities

FY20 Planned Projects

- Replace/refurbish outdoor lighting
- Initiate replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe) and modify the 283W Clearwell.
- Install 12-inch potable water loop line to WTP
- Replace major water mains on the Central Plateau
- Complete 283W Clearwell Tracer Study
- Refurbish route 3 and 3 North
- Complete upgrades to 400 Area Fire station and the emergency siren system
- Upgrade Fire Station 92 including installation of a new equipment storage building
- Complete Phase II Upgrade to Local Area Network (Access Layer)

FY19 Planned Projects

- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100D (replaces 42-inch diameter pipe)
- Continue upgrades to 400 Area Fire Station and the emergency siren system
- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe) and modify the 283W Clearwell.
- Continue sewing consolidations and flow equalization
- Complete selected road repairs in 200E and 100N Areas.
- Continue sewer flow equalization and consolidation in the 200E Area
- Complete replacement of obsolete fire alarm panels inside selected support facilities

FY21 Planned Projects

- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe) and modify the 283W Clearwell.
- Replace 8 major water mains on the Central Plateau
- Complete Phase II Upgrade to Local Area Network (Access Layer)
- Complete 283W Clearwell Tracer Study
- Refurbish route 3 and 3 North
- Complete upgrades to 400 Area Fire station and the emergency siren system
- Upgrade Fire Station 92 including installation of a new equipment storage building
- Complete Phase II Upgrade to Local Area Network (Access Layer)

FY22 and Beyond Planned Projects

- Renovation of remaining electrical, water, sewer, and road systems, as well as upgrades to facilities and heavy equipment focused on cleanup of Central Plateau
- Complete repairs and reconditioning of 230 kV electrical transmission and 13.8 kV distribution system and replacement of selected RFARs, initiate electrical transfer trip upgrades and complete electrical access roads
- Complete upgrade of the new 24-inch water main, the large potable water tank storage system serving the Central Plateau, water filter plant pilot project, and installation of water fire loop for DFLAW
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- Continue upgrade of the new 24-inch water main, the large potable water tank storage system serving the Central Plateau, water filter plant pilot project, and installation of water fire loop for DFLAW
- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe)
- Continue upgrades to 400 Area Fire Station and the emergency siren system
- Replace key pieces of emergency response vehicle equipment and provide expanded capability for 2 large crane replacements
- Initiate replacement of obsolete fire alarm panels inside selected support facilities

- Replace 8 major water mains on the Central Plateau
- Complete Phase II Upgrade to Local Area Network (Access Layer)
- Complete replacement of 181B water pumping system and 24-inch diameter E-W water pipe at 100B (replaces 42-inch diameter pipe) and modify the 283W Clearwell.