The Hanford Site

- Originally 640 square miles – now 586 miles
- Established as part of the Manhattan Engineering District – defense mission
- 1943 – 1,500 people in residence
- 1944 – 51,000 people in residence
- Currently 8,700 DOE, prime and pre-selected subcontractor employees (excludes many)
  - Hanford - $2.03 B/annual budget
- Currently 4,500 employees at PNNL
  - $1B/annual budget
- From defense mission to environmental in late 1980’s – now largest environmental cleanup in the world
DOE Richland Presence

- Richland Operations Office (RL) – management and oversight of Hanford Site – established in 1943
- Office of River Protection (ORP) – management and oversight of tank farm operations and waste vitrification plant construction and operation – established in 1998
- Pacific Northwest Site Office (PNSO) – management and oversight of Pacific Northwest National Laboratory (PNNL) – established in 2003
Hanford Building Status

- Currently there are ~2,800 structures
  - Buildings
  - Trailers
  - Mobiles
  - Missile silos
  - Towers
  - Tanks
  - Quonset huts
- Historically ~5,400 structures
- Catalog of buildings provided
PNNL (BATTELLE)

- PNNL Operated as part of DOE Richland Operations Office (Hanford) from 1965-2005
- Still DOE funded – not part of the EM funded part of the complex
PNNL Site Map

DOE SC – PNNL Site

DOE EM – 300 Area

Leased Facilities/ Private Property

Leased Facilities/ Battelle Property

Battelle Owned
100 Area

The Hanford 100 Area is a 26-square-mile piece of land along the Columbia River where nine water-cooled plutonium reactors were constructed between 1943-1963. There are six reactor areas (three of which contain two reactors each and three that contain one reactor each) in the 100 Area. All nine reactors were operating at one point during the early 1960s, but only N Reactor (which produced both plutonium and electricity) remained in operation after 1971.
100 Areas

All 9 reactors along the river banks
*Currently being cocooned – contaminated soil being excavated*

- **B reactor**
  - First full scale reactor in the world – operational 9/44
  - National Historic Register – public tours
- **N reactor**
  - first dual purpose reactor
  - standby status in 1987
  - cocooning under way
- **K East/K West Basins**
  - until 2000, 2,300 tons of spent fuel was in the water basins
  - 80% of DOE's total inventory
  - 2004 - 2012 - spent fuel removed and dried
  - by 2017 – sludge removal scheduled for completion
- **KE Basin demolition completed**
River Corridor

Cleanup in D Area. To date 15 million tons of waste has been moved away from the Columbia River

Cleanup of K Reactor Areas

100-B-C Cleanup
200 Areas – Central Plateau

- Chemical processing of fuel irradiated at the reactors
  - separate out the plutonium
  - multiple facilities
- T Plant
  - first chemical processing at Hanford and first of its kind in the world
  - still operating
- PFP
  - Z Plant
  - convert plutonium to metal oxide
- PUREX
  - started in 56
  - mission over in 1997
- Tank Farms
  - single and double shell tanks
- Vitrification construction project
Plutonium Finishing Plant employees work in confined spaces to safely remove 230 gloveboxes and hoods.

Disposal of large glovebox

Crane repair at Plutonium Reclamation Facility
Environmental Restoration Disposal Facility (ERDF)

Approximately 15M tons of contaminated material from the River Corridor disposed
Tank Farms Overview

C-Farm Retrievals
- Waste Retrieved From 9 of 16 Tanks

AY-102
- First Discovered Double-Shell Tank Leak

T-111
- Single-Shell Tank Level Decrease
Waste Treatment Plant Overview

Low-Activity Waste Facility
- 63% Complete

High-Level Waste Facility
- 62% Complete (on hold)

Analytical Laboratory
- 68% Complete

Pretreatment Facility
- 56% Complete (on hold)
Waste Treatment Plant

- Pretreatment Facility
- Analytical Laboratory
- Low-Activity Waste Facility
- High-Level Waste
Groundwater Cleanup
The 400 Area at Hanford is home primarily to the Fast Flux Test Facility (FFTF), completed in 1978, and initial criticality was achieved in early 1980, with full power initiated in late 1980. Following an additional year of acceptance testing, FFTF operated successfully from 1982 to 1992. FFTF is currently shut down, all systems drained and non-operational.
600 AREA

• The 600 Area consists of all property on the Hanford Site not specifically included in other area designations.

• The 600 Area includes Hanford’s roads, railroads, fire station, an old concrete batch plant site, contaminated storage vaults in the east end of Gable Mountain, the former town sites of Hanford and White Bluffs, the Hanford meteorology station, the Wahluke Slope, and the Arid Lands Ecology Reserve (including Rattlesnake Mountain).
700 Area
Who We are Now?

- Richland Operations Office (RL)
  - Mission Support Alliance
  - Lockheed Martin Services
  - Washington Closure Hanford
  - HPM Corporation
  - Navarro (EEOICPA small contractor)
- Office of River Protection (ORP) *(tank farms and vitrification project)*
  - CH2MHiIl
  - Bechtel National
  - Washington River Protection Solutions
- Pacific Northwest Site Office
  - Pacific Northwest National Laboratory operated by Battelle
- Thousands of subcontractors
Who Were We Then? -- Why Does that Matter to EEOICPA?

- Complex infrastructure of contractors
- Approximately 300,000 cubic feet – 75M pieces of paper over 586-square miles
- Records moratorium since 1989
- Ownership of records clauses difficult – being partially successful at obtaining personnel records prior to contract termination
- Formalizing/automating contractor structure/flows/site presence project completed in 2012
Contractors/Companies

• Combined, we have listings for thousands of contractors, subcontractors, procurements, vendors, military branches, etc.

• These records vary and are compiled from multiple sources

• Some include contract numbers, time frames, work performed, areas, and job descriptions etc.

• Some companies include associations to other contractors, sub-contractors, to sub-contractors
Individual Record Types

• Employment
  – Hanford has over 500,000 records indexed to verify employment, which include employment files, employment lists, union cards, badging books, dispatch records, etc.

• Site presence (EV DAR)
  – Hanford also relies on the dosimetry database records, the badging data base, and work history data base to validate employment or show a record of presence on the site

• DAR
  – Occupational medical records, detailed dosimetry records, industrial hygiene searches, incident and accidents reports and workers compensation records searches are also performed when a DAR is requested
## Employment Records Search

**EEOICPA**  
Energy Employees Occupational Illness Compensation Program Act

### Return To Main

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**Search**

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For questions or comments, please send a message to [Gail Splett](mailto:gspellett@eeoicpa.org)

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