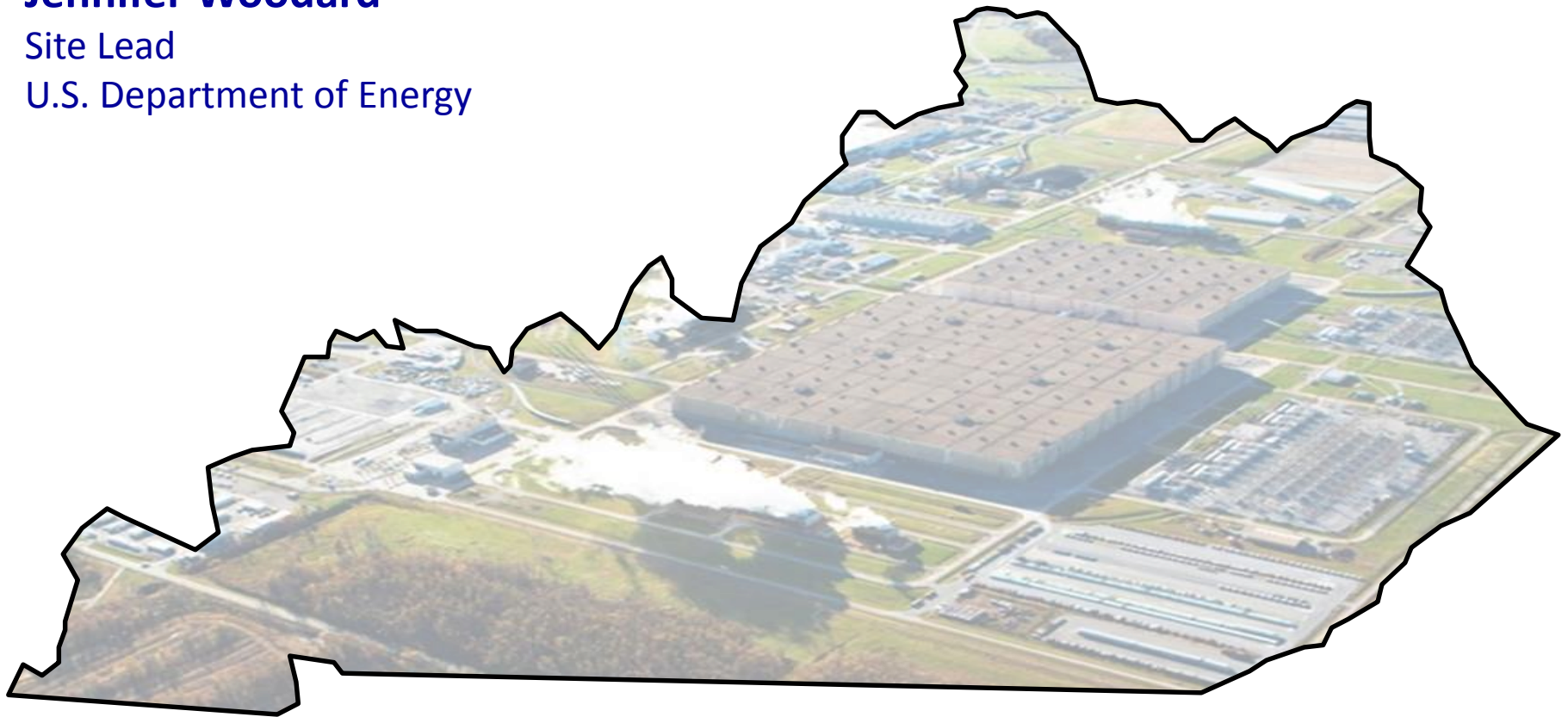


Jennifer Woodard

Site Lead

U.S. Department of Energy



- The Paducah Gaseous Diffusion Plant site is located in Western Kentucky.
- The plant is located on a 3,556-acre federal site.
- Uranium Enrichment Operations 1952-2013.
- DOE Cleanup began in 1988.
- Placed on the National Priorities List (NPL) in 1994.
- Deactivation activities began in 2014 to prepare for D&D.



DOE-EM has invested \$1.9 billion on Paducah cleanup.

- Mitigated exposure to residents by providing municipal drinking water.
- Reduced migration of off-site groundwater contamination using pump and treat systems.
- Treated more than 3 billion gallons of contaminated water; removed more than 7,000 gallons of solvent from groundwater and source areas.
- Removed 33,000 tons of contaminated scrap metal.
- Removed more than 1 million cubic feet of contaminated soils/sediment from on-site plant ditches.
- Repackaged and removed 420,000 ft³ legacy waste stored onsite in drums.



- Removed ~73,000 cubic feet of contaminated soils from historical site operations and investigated more than 180 potential areas totaling more than 200 acres.
- Removed 31 contaminated, inactive facilities totaling nearly a half-million square feet; the last facility is being torn down in 2014-15.



- C-400 TCE Removal project extracted 1,200 gallons of pure TCE from the subsurface soil overlying the regional aquifer
- Awarded 3-year, \$420M contract to Fluor Federal Services for deactivation of gaseous diffusion facilities.
- Transitioned 419 facilities, encompassing approximately 8.8M SF of floor space, to DOE authority after shutdown of USEC uranium enrichment operations.
- DOE contractors completed 4.5 million man-hours without a lost time accident. LATA KY: 3 million man-hours; Swift & Staley: 1.5 million man-hours

- USEC ceased uranium enrichment operations in May 2013.
- USEC completed operational shutdown in July 2013.
- USEC provided formal notification of return to DOE in August 2013; 2-year turnover requirement.
- DOE Deactivation contract awarded July 2014.
- Facilities transferred back to DOE October 21, 2014.



Transition Schedule

Budget

Contracts

Safety Basis

Security

NRC Transfer Authorization

Environmental Regulations

Infrastructure Optimization

Modification of Facilities Plans

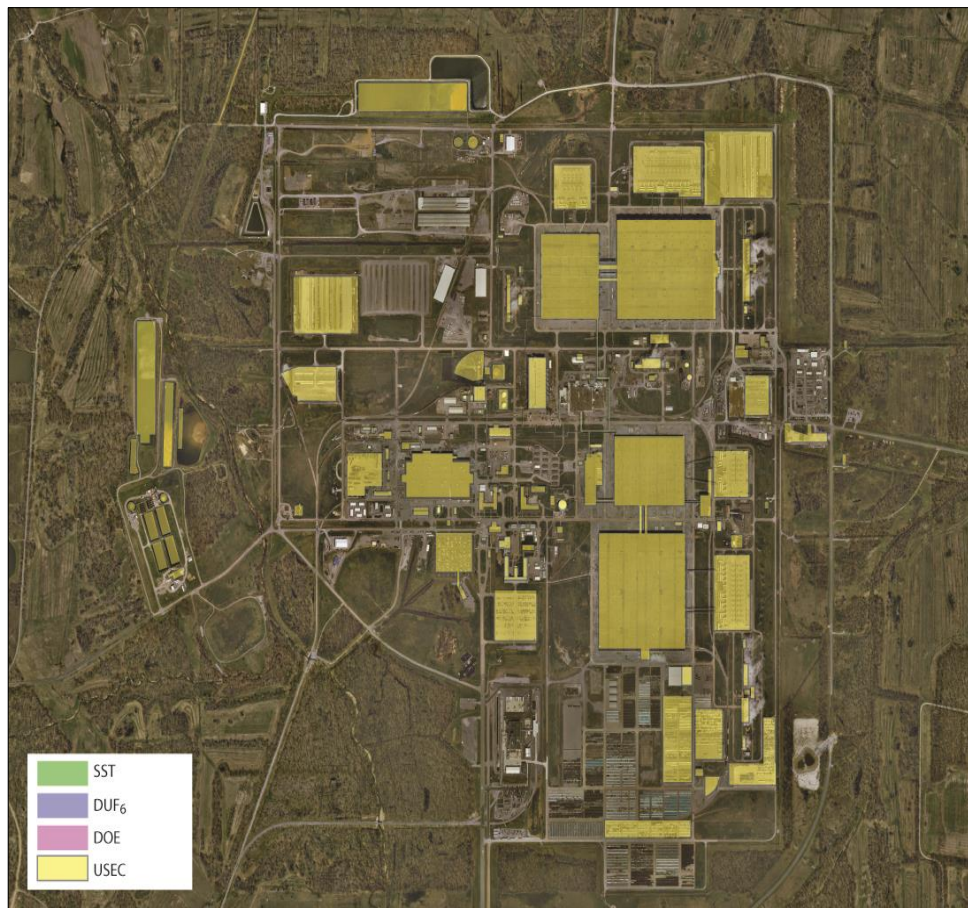
Lease Requirements

Lease Turnover Criteria

Stakeholder Interaction

Post-Return Operations

Post-Return Surveillance & Maintenance



➤ LATA KY

- 16 tasks to support rapid turnover success by deactivation contractor
- Hold-up removal system design, procure, and fabricate
- Heating system design, procure, and install
- Regulatory permitting

➤ Pro2Serve

- Documented safety development and support
- Walkdown completion and lease compliance assessment

➤ Swift & Staley

- IT systems upgrades and deployment
- Records management upgrade and transfer



➤ Fluor Federal Services - Paducah

- Mobilized management team.
- Established business infrastructure.
- Walked down facilities and set up new programs and DOE regulatory processes.
- Developed utility optimization program to reduce out-year costs.
- Initiated the Integrated Safety Management System (ISMS) program.



- Removed more than 30,000 cubic feet of material to complete C-746B Building Doors 1&2 removal project.
- Demolition of C-410 building – Completed August 2014.

➤ TCE source removal

- Completed preparations for deep-soil mixing (southwest plume).
- C-400 Phase IIa successfully completed pulse operations and shutdown.
- The Phase IIb Steam Injection treatability study at C-400 began in December to address contamination in the Regional Groundwater Aquifer.



200-ton crawler crane and drill and auger recently arrived at Paducah Site for deep-soil mixing at southwest plume source.

- Paducah contractors contributed to local charities during 2014.
- Fluor hosted a community reception and 100 community leaders attended.
- Paducah contractors helped organize and financially contributed to the annual Science Bowl in February 2015.
- LATA Kentucky visited area middle schools to inform students on careers in science and cleanup at the plant.
- SST sponsored Chamber of Commerce Power In Partnership Breakfast



