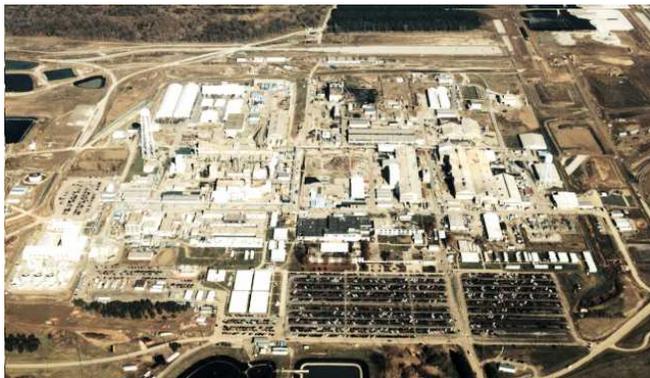




Strategic Initiative 6 – Accelerate Facility Decontamination and Dismantlement (D&D)



Subproject Description

When Fernald completed its mission of producing uranium in 1989, many uranium- and thorium-contaminated production facilities, including process lines and equipment, still contained quantities of raw, intermediate, and finished uranium products. As part of site remediation, the scope of work for the Facility D&D subproject consists of “safe shutdown” (removal of materials from process lines, piping, and equipment), facility shutdown (primarily the disconnection of utilities from the structure), and above-grade D&D of Fernald’s 255 structures. The scope also includes the size reduction, segregation, and disposition of the resultant D&D debris. Below-grade portions of structures (e.g., foundations) and other at- and below-grade appurtenances (e.g., below-grade piping, concrete pads, roads, etc.) will be removed as part of soil excavation.



Execution Strategy

The execution strategy for the D&D of Fernald’s structures was determined and documented in the Operable Unit 3 Record of Decision for Interim Remedial Action, which was signed by the U.S. EPA and DOE in July 1994.

Prior to the start of D&D on each former production building, safe shutdown was performed to remove uranium or thorium hold-up material from process lines and piping, and to isolate all utilities to the buildings so that D&D will be performed safely. The D&D of a typical former production structure involves the following steps (if applicable to the particular structure):

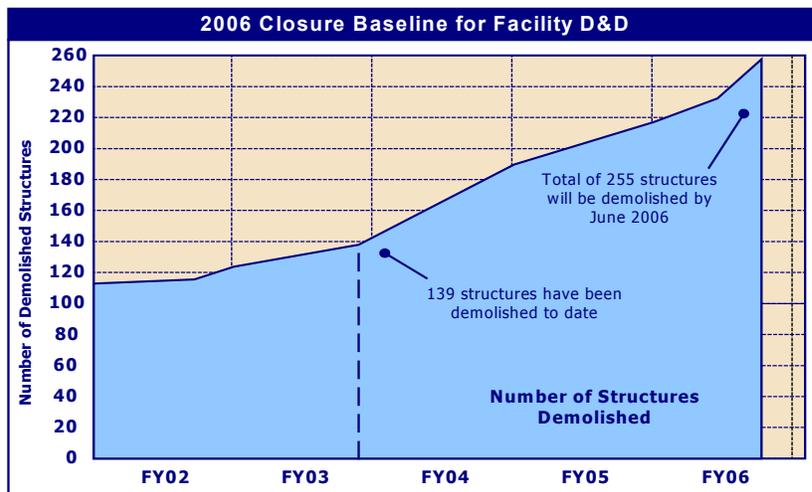
- Pre-mobilization and mobilization
- Building preparation
- Asbestos abatement
- System, piping, and equipment removal
- Acid brick removal
- Release cleaning
- Transite roofing and siding removal
- Structural steel dismantlement (including removal of any above-grade concrete)
- Debris size reduction, segregation, and containerization
- Decontamination of D&D equipment
- Demobilization.

The execution strategy for the segregation, size reduction, and disposition of the resultant D&D debris was determined and documented in the Operable Unit 3 Record of Decision for Final Remedial Action, which was signed by the U.S. EPA and DOE in September 1996. The strategy for disposition of D&D debris is in step with the site-wide remedial strategy of shipping higher-contaminated materials off site (i.e., to Envirocare or the Nevada Test Site), while disposing of less-contaminated waste in the On-Site Disposal Facility. Therefore, following demolition of each structure, the resultant D&D debris (approximately 300,000 cubic yards in total) will be segregated and size reduced based on waste acceptance criteria for placement in the OSDF or for off-site shipment.

New Strategies to Achieve 2006 Closure

In order to accelerate site closure from 2009 to 2006, the following initiatives were developed for the Facility D&D subproject:

- Realign the existing D&D subcontract to significantly accelerate the completion of Facility D&D
- Mobilize additional work crews and equipment to safely support acceleration



At the end of closure in June 2006, all process and administration buildings will have been demolished leaving only the infrastructure necessary to support on-going groundwater remediation.

Current Subproject Status

The Facility D&D subproject is currently 55% complete. Safe Shutdown was completed in March 1999, two years ahead of schedule and \$7 million under budget. While working to a 2009 site closure date, the Facility D&D subproject primarily utilized firm fixed-price subcontracts in the execution of D&D subprojects. However, following a revision of Fluor Fernald’s prime contract with DOE that incentivized Fluor Fernald to accelerate site closure into 2006, the Fernald baseline was modified to incorporate a June 2006 site closure schedule. Due to the challenges associated with meeting this aggressive June 2006 closure date, the Facility D&D subproject is transitioning from a subcontractor-performance approach to a self-performance approach in an attempt to improve safety, cost, and overall schedule.

Subproject Status:

- Safe shutdown has been completed
- Facility D&D is 55% complete
- 139 of 255 structures have been removed
- Cost to Complete: \$75 million
- Subproject will be complete in June 2006

To date, 139 of Fernald’s 255 structures have been demolished. Currently D&D of Plant 2/3, Plant 8, and the General Sump are nearing completion and D&D of the Pilot Plant and the Lab are underway. The remaining Facility D&D scope will be completed by June 2006.

Key Actions and Responsibilities

The following table lists the key actions needed to accelerate the Facility D&D subproject to meet 2006 site closure. Also included are the responsible organizations, the status of the key action, and the date that the key action is needed. The key actions for all eight strategic initiatives (subprojects) are compiled in Attachment 2.



Key Actions and Responsibilities for Facility D&D			
Action	Responsibility	Status	Date Needed
Renegotiate the MACTEC subcontract to incorporate the 2006 closure baseline	Fluor Fernald	Complete	—
Mobilize additional work crews and equipment to accelerate work in the Former Production Area	Fluor Fernald	Complete	—
Transition Facility D&D subproject from a subcontractor-performance approach to a self-performance approach	Fluor Fernald	In progress	12/03