

PROJECT MANAGEMENT PLAN EXAMPLES

Deactivation Plan Project Scope and Objectives Examples

Example 6

2.3 MISSION OBJECTIVES

Stabilization of plutonium-bearing materials and deactivation/dismantlement of the PFP Complex will result in the virtual elimination of the hazards and risks associated with the facility and will greatly reduce the costs of safe, secure S&M. Using the lessons learned from deactivation projects across the DOE Complex, further improvement on previously applied deactivation methods is anticipated.

The major mission objectives for the PFP Stabilization and Deactivation Project are as follows:

- Maintain inventory of plutonium-bearing material in safe and highly secure storage pending shipment offsite;
- Maintain the PFP facilities, systems, and residual radioactive and chemical contamination in a safe, compliant, and environmentally sound condition;
- Safely and cost-effectively stabilize and repackage the PFP material inventory as needed for safe, interim storage and to meet customer requirements for future reuse, long-term storage, or final disposition at other DOE sites;
- Support the DOE and the U.S. State Department in fulfilling their nuclear non-proliferation objectives;
- Ship the entire PFP material inventory to DOE-designated locations outside the PFP Complex for reuse, long-term storage, and/or final disposal;
- Deactivate, dismantle, and remove PFP process and support systems and structures as needed to achieve low risk, low cost end points for the PFP Complex;
- Further develop Hanford Site capabilities in nuclear facility decommissioning through implementation of lessons learned from prior onsite, offsite, and commercial nuclear facility deactivation projects; and
- Develop a synergistic partnership between the Facilities Transition and Environmental Restoration program teams in completing decommissioning of the PFP Complex.

3.8.1 Work Scope

Major Hanford Site deactivation projects are typically carried out in three distinct, phases; typically, major facility transition activities have included minimal structural demolition and have been followed by an extended period of S&M prior to eventual facility dismantlement. Previous PFP project planning documentation explored opportunities to accelerate the deactivation of PFP facilities and systems, thereby saving significant outyear resources and reducing the length of time required to achieve complete deactivation. Under the current planning case, the PFP Complex will be transitioned to a clean slab-on-grade configuration in parallel with and immediately following completion of DNFSB Recommendation 94-1 material stabilization activities, bypassing the period of extended facility S&M that typically precedes dismantlement. Previous experience with the accelerated B Plant Deactivation Project has demonstrated that this can be accomplished by challenging the traditional "min. safe" costs for PFP, reinvesting these funds in accelerated stabilization and deactivation, and taking advantage of accelerated deactivation opportunities early in the project. Accelerated shipping of SNM out of the PFP Complex will substantially reduce project safeguards and security costs, freeing up tens of millions of dollars per year for reinvestment in accelerated deactivation and dismantlement. Stabilization, deactivation, and dismantlement of the PFP Complex to a clean slab-on-grade will place the facility in an environmentally safe, secure condition that no longer requires significant S&M to maintain safe conditions.

Table 3-1 provides a specific list of buildings, facilities, and waste sites within the PFP Complex that will be dismantled and/or stabilized as part of the PFP Stabilization and Deactivation Project. The following actions will be taken to transition the PFP Complex.

- Complete deinventory of the PFP vaults.

- Clean out and dismantle all above-grade structures inside the outer security fence at PFP and the above-grade portion of the 216-Z-9 Facility to a clean slab-on-grade configuration.
- Stabilize and backfill (if required) below-grade portions of 234-5Z, 291-Z, 241-Z, and 241-Z-361.
- Close state-permitted facilities:
 - underground fuel tank,
 - septic fields,
 - RCRA treatment, storage, and disposal (TSDs) units.
- Stabilize soils inside the PFP protected area (the 200-Z Compound).
- Decontaminate or stabilize all concrete slabs exposed to the weather, then install a new concrete cap if required for safety and/or runoff control.

Completing these activities will reduce the hazards to workers and the public and allow for a reduced level of surveillance for the below-grade contaminated areas/structures that will remain upon completion of the project. This WBS function also provides for transition project management and planning, trade studies, and process support equipment necessary to accomplish transition activities.

The following activities are specifically excluded from the PFP Stabilization and Deactivation Project scope.

- Environmental remediation of cribs, ponds, and ditches will be conducted as follow-on work consistent with the goal of the *Hanford Strategic Plan* (RL 1996a) for the Central Plateau.
- Carbon tetrachloride plume remediation is an ongoing project that will not be affected by the PFP Stabilization and Deactivation Project.
- Soil remediation will be conducted as follow-on work consistent with the goal of the *Hanford Strategic Plan* (RL 1996a) for the Central Plateau.
- Clean out and removal of below-grade systems, equipment, and materials will be coordinated with the *Hanford Strategic Plan* (RL 1996a) for the Central Plateau, in conjunction with soil remediation.
- Decommissioning of the 231-Z Building is a separate PHMC activity.

Removal of mobile office trailers located east of the PFP security fences will be coordinated with other 200 West Area Remediation efforts. These trailers may be of use to other projects or follow-on efforts.

Example 7

2.0 PROJECT SCOPE

The B Plant Transition Project scope includes deactivation of B Plant process buildings (221-B and 212-B), ancillary support structures (271-B, 211-B, 291-B, etc.), mobile offices, plant systems and utilities, underground filters, and waste sites associated with B Plant.

The location of each building/facility is shown graphically in Figure 2-1. A complete list of these buildings/facilities and a brief description is shown in Table 2-1. The boundary of the B Plant Transition Project scope, as shown in Figure 2-1, surrounds approximately 50 buildings. As shown, this boundary excludes 225-B (WESF), approximately 20 active WESF support facilities, and the 224-B facility. The project boundary encompasses all facilities and waste sites included in the B Plant transition work scope. Facilities and waste sites outside of the work scope are not shown in Figure 2-1, unless for purposes of reference or information.

Table 2-1. B Plant Transition Project Buildings/Facilities.

Building Facility	Description
207 B*	Cooling Water Retention Basin
207 B	SWP Change Trailer
207 BA*	CBC Sampling Bldg

211 B*	Chemical Tank Farm
211 BA*	Chemical Swer Neutralization Bldg
211 BB	MCC Building
212 B*	Cask Transfer Station
216-B-4*	Reverse Well for 291 B and 292 B
216-B-13*	French Drain for 291 B
216-B-59*	15" Cooling Water Retention Basin
216-B-60*	Retired Crib
216-B-64*	Steam Condensate Retention Basin
217 B*	Demineralizer Bldg
221B	B Plant Canyon Bldg <ul style="list-style-type: none"> ▪ Canyon* ▪ Electrical Gallery* ▪ Pipe Gallery* ▪ Operating Gallery* ▪ SWP Change Room ▪ Railroad Tunnel
221 BA*	15" Cooling Water Monitor Bldg
221 BB*	Condensate Bldg for LLW Concentrator
221 BC	SWP Change Bldg
221 BD	Laundry Storage
221 BE	Fork Lift Station
221 BF*	BCP Storage Pit
221 BG*	24" Cooling Water Monitor Bldg
222 B	Office Bldg
226 B	Hazardous Waste Storage Area
270-E-1*	Condensate Collection Tank
2607-E4	Septic Tank
271 B	B Plant Support Bldg <ul style="list-style-type: none"> ▪ Basement ▪ First Floor* ▪ Second Floor ▪ Third Floor*
271 BA	Laundry Storage
2711 B	Breathing Air Compressor Bldg
2715 B*	Paint and Oil Storage Bldg
2716 B	Laundry Storage – RR Tunnel
272 BA	Maintenance and Material Storage Bldg
272 BB	Insulation Shop
276 B*	Paint Shop
2904 EA*	Chemical Sewer Sample Bldg
291 B*	Main Stack/Sand Filter/Turbine Bldg

291 BA*	Exhaust Air Sample House
291 BB*	Instrument Bldg – A and B Filters
291 BC*	A & B Filters
291 BD*	C Filter and Instrument Bldg
291 BF*	D Filter
291 BG*	D Filter Instrument Bldg
291 BH*	E Filter
291 BJ*	F Filter
292 B*	Stack Monitor Station
292 B	SWP Change Trailer
MO-537	SWP Change Trailer
MO-029, MO-109, MO-206, MO-232, MO-410, MO-995	Mobile Offices
Unplanned Release Sites	B Plant Unplanned Release Sites

Note: * Denotes materials or units within facility are regulated or potentially regulated.