

Plutonium Finishing Plant (PFP) Complex Endpoint Criteria
NMS-16404, Rev 0

PREAMBLE

The *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-083-00A requires the U.S. Department of Energy-Richland Operations Office (DOE-RL) to:

Complete PFP Facility Transition and Selected Disposition Activities. Completion of this major milestone includes the following key elements: 1) completion of all activities necessary to achieve end point criteria established through milestone M-83-20 for placing the PFP Facility in a safe and stable [surveillance and maintenance] S&M mode, 2) completion of all activities described in the approved M-83 series interim milestones and target date; and 3) completion of the balance of PFP selected disposition activities pursuant to the final Action Memoranda and work plans.

The Plutonium Finishing Plant (PFP) Complex Endpoint Criteria document was originally developed to establish a set of transition endpoint criteria to be applied to completion of the deactivation, decontamination, decommissioning, and demolition (D4) of above-grade structures and other components within the PFP Complex. The criteria have been utilized for detailed planning and execution of the project during and after development of DOE/RL-2004-05, *Engineering Evaluation/Cost Analysis for the Plutonium Finishing Plant Above-Grade Structures*, and associated DOE/RL-2005-13, *Action Memorandum for the Plutonium Finishing Plant Above-Grade Structures Non-Time Critical Removal Action*.

The current scope of the removal action, as described in DOE/RL-2011-03, *Removal Action Work Plan [RAWP] for the Deactivation, Decontamination, Decommissioning, and Demolition of the Plutonium Finishing Plant Complex* includes the following activities for above-grade structures and other components:

- (1) Removal of above-grade structures and equipment to slab-on-grade
- (2) Removal of equipment and components in below-grade structures that could not be dispositioned as low-level waste during final disposition activities
- (3) Isolation of potential sources of contamination to the environment, such as underground transfer lines and drains
- (4) Identification of areas where radioactive and chemical contamination will remain for final disposition
- (5) Stabilization of the remaining slabs and surface to mitigate the potential for radioactive and hazardous material migration
- (6) Transition to surveillance and maintenance (S&M) until final disposition decisions are made and implemented

During implementation of the D4 process, the U.S. Department of Energy-Richland Operations Office (DOE-RL) and the Washington State Department of Ecology (Ecology) have determined that because of potential residual transuranic contamination in some of the process building slabs, removal of selected slabs while D4 equipment and personnel are mobilized may be an effective means of reducing onsite radionuclide inventory pending final remediation. Because removal of building slabs was not envisioned during development of the original endpoint criteria, and because the Parties agree that timely transition to the S&M is the most efficient use of resources, revisions are made to the applicability of the endpoint criteria that will allow the PFP Facility to be placed in a safe and stable S&M mode, as required in Tri-Party Agreement milestone M-083-00A following removal of the above-grade structures.

The endpoint criteria have been evaluated to identify those criteria that are applicable and necessary to achieve safe and stable S&M. This has been determined to include criteria that achieve the following: (1) removal of the above grade structures; (2) removal of the required below-grade equipment and components; and (3) isolation of potential sources of contamination to the environment.

Completion of these criteria will meet the intent of Tri-Party Agreement milestone M-083-00A where it requires "completion of all activities necessary to achieve end point criteria established through milestone M-83-20 for placing the PFP Facility in a safe and stable S&M mode".

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Following transition to S&M, 236Z and 242Z building slabs will be removed, along with soil necessary to allow complete slab removal (approximately one meter below the slab). This will be followed by necessary actions to achieve transition from the removal action to a remedial action.

Table P-1 documents the criteria that must be met to enable transition of the PFP Complex to S&M (stated in the Applicability column as Pre-transition). The criteria identified as part of S&M, such as final stabilization of the surface and documentation of conditions in support of final disposition decisions, will be completed as part of S&M activities on a schedule that will be approved by the Parties in DOE/RL-2011-03, *RAWP for the D4 of the PFP Complex*.

Table P-1. PFP Endpoint Criteria Applicability Before and After Transition to S&M

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
<p>Facility-specific criteria 1-21 generally apply to individual structures. Facility-specific endpoints that are required to (1) complete removal of the above grade structures; (2) complete removal of required below-grade components; and (3) achieve isolation of potential sources of contamination to the environment are designated as pre-transition activities. Those criteria that cannot be completed for all facilities or where the endpoint requires a report or other documentation that could change significantly as a result of slab removal are designated as applicable during S&M activities.</p>				
Facility-specific	<p>1. Remove Special Nuclear Material (SNM) inventory from buildings. <u>Description:</u> PFP currently stores significant quantities of SNM in the PFP vaults. All of this material must be transferred to alternate approved storage location(s) prior to completion of the PFP transition. A walk down around the structure will be performed to verify the stored SNM has been removed.</p>	X		
Facility-specific	<p>2. Remove structures, equipment, piping, ducting etc. above the foundation/slab. <u>Description:</u> This end point includes activities to complete the structures' dismantlement to the slab/foundation. A walk down will be conducted to verify removal of the structure and internal equipment (building and equipment is gone, equipment connecting building to building is gone).</p>	X		
Facility-specific	<p>3. Cleanout or remove equipment, piping, ducting etc. from accessible below-grade spaces such that the remaining equipment, piping, ducting etc. could be dispositioned as low-level waste as part of the building rubble during the final remediation of the PFP Zone. And, if needed, satisfy the end state criteria for the Central Plateau. This criteria applies to 234-5Z Tunnels, 241-Z Cells, 241-Z-RB Valve Room, 291-Z, 216-Z-9 Control Room, and 243-ZA Tank Pit. <u>Description:</u> This end point includes activities to complete the removal of transuranic waste (TRU) (or decontaminate to low-level waste criteria) of plutonium-contaminated equipment, piping, ducting, etc. A walk down combined with work package and radiological survey data reviews will be conducted to verify removal or decontamination to low-level waste criteria of the plutonium contaminated equipment, piping, ducting, etc. prior to sealing the space (refer to criteria 17).</p>	X		
Facility-specific	<p>4. Isolate/seal ventilation ducting at building boundaries (foundation/slab/grade). <u>Description:</u> Ventilation ducting exiting the structures' boundaries will be plugged/capped or otherwise isolated to prevent material from both entering and exiting the remaining items. A walk down of the structure will be performed to verify ducting isolation.</p>	X		Additional isolation may be required if ductwork is exposed after slab removal.

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Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Facility-specific	<p>5. Buried piping that enters/exits a building will be flushed or allowed to drain to minimize hazardous constituents prior to capping/ isolating. All recovered liquids will be dispositioned through approved methods.</p> <p><u>Description:</u></p> <ul style="list-style-type: none"> Underground drain lines and piping associated with sanitary services (water, storm drains, and sewer) will be drained. No flushing will be performed. Abandoned underground drain lines and pipes to cribs, ditches, retention basins, and underground tanks (e.g. 241-Z-361 Tank, 216-Z-8 Tank, etc.) will be checked for liquids and drained, if needed, at the lowest point accessible from within buildings (e.g. lines will be checked/drained from inside 234-5Z Tunnels, 241-Z Cells, 241-Z-RB Valve Room, etc). No flushing of these lines will be performed due to prohibitions associated with provisions of the State Waste Discharge Permit No. 4508. Drain lines and pipes from process facilities to 241-Z, not associated with the 241-Z TSD permit, will be flushed to minimize hazardous constituents. However, flushing will not be performed if the line is a failed line or it is determined that flushing creates a greater hazard to worker safety or the environment than would leaving the line as-is for action during the final remediation of the PFP Zone. Lines that are not flushed will be checked for liquids and drained, if needed, at the lowest point accessible from within 241- Z. Drain lines that are part of the 241-Z TSD will be dispositioned as part of the RCRA closure plan's required actions. Lines will be flushed to minimize hazardous constituents. However, flushing will not be performed if the line is a failed line or it is determined that flushing creates a greater hazard to worker safety or the environment than would leaving the line as-is for action during follow-on remediation of the PFP Zone. Lines that are not flushed will be checked for liquids and drained, if needed, at the lowest point accessible from within 241-Z. Drain lines and pipes from process and process support facilities to 243-Z/ZA will be flushed to minimize hazardous be constituents. All other underground drain lines and pipes will be drained at the facility boundary prior to capping. 	X		<p>Additional isolation may be required if piping is exposed after slab removal.</p> <p><i>[Note: State Waste Discharge Permit ST-4508 has been superseded by ST-4511. The prohibition on flushing remains.]</i></p>

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Facility-specific	6. Isolate/seal drain lines (including floor drains) at building boundaries (foundation/slab/grade). <u>Description:</u> Process piping and drains exiting the structures' boundaries will be plugged/capped or otherwise isolated to prevent material from both entering and exiting the remaining pipe. A walk down of the structure will be performed to verify piping isolation.	X		
Facility-specific	7. Isolate/seal vents and penetrations to the environment. <u>Description:</u> In addition to ventilation ducting and piping, items may exit the facility boundary and require isolation. These items will be plugged/capped or otherwise isolated to prevent material from both entering and exiting the remaining items. A walk down of the structure will be performed to verify isolation.	X		
Facility-specific	8. Identify/label remaining tubing/piping/ ducting/drain lines containing radiation/contamination. <u>Description:</u> Tubing/piping/ducting remaining after transition & dismantlement will be documented and provided to the oncoming project/contractor. Labeling will be done in accordance with approved site procedures.		X	Information about contamination will be collected throughout the D4 process. This endpoint will be completed after slab removal, as removal of embedded or buried piping, tubing, ducting, drain lines, and ventilation ducting may be completed during slab removal.
Facility-specific	9. Obtain characterization data for remaining tubing/piping/ducting/drain lines and ventilation ducting. <u>Description:</u> Characterization data will compiled utilizing process knowledge in cases where that knowledge is likely to bound the remaining condition. When process knowledge will not bound the remaining condition, samples will be obtained with the analysis included in the data package placed in the completion package files. Process knowledge will be used to identify analytical analyses to be performed on the samples obtained.		X	Characterization data will be developed throughout D4 process. Final characterization reporting for items remaining after demolition will be developed after slab removal.
Facility-specific	10. Verify remaining plutonium in the below grade/buried systems (e.g. ducts, drain lines, etc.) does not pose a significant security risk nor does it pose a potential for criticality. <u>Description:</u> This end point addresses two concerns. The first is the need to eliminate significant security risks with the second being to eliminate any potential of a criticality. To complete this end point, material will be removed or remediated as required to preclude the potential of criticality or significant security risk. Any remaining material shall be designated as waste or contamination.	X		

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Facility-specific	11. Conduct housekeeping activities, remove and excess/dispose unattached materials and equipment. <u>Description:</u> A walk down of the structures will be conducted prior to the seal/cover/fill being installed to verify loose materials have been removed. This end point applies to both above grade and below grade spaces.		X	Final housekeeping activities will be conducted as part of final stabilization activities during the Stage 1 S&M period.
Facility-specific	12. Remove portable and loose equipment/ piping within the structures boundary (inside the building structure but below grade). <u>Description:</u> This end point includes activities to complete the interior stabilization and demolition (if required) of below grade spaces (e.g. 234-5Z Tunnels, and 291-Z). A walk down will be conducted to verify removal of the portable and loose internal equipment (equipment is gone, building shell and fixed equipment remains).	X		
Facility-specific	13. Fire extinguishers, radioactive sources from exit signs and smoke detectors, and emergency lantern batteries are removed from inside the below grade structures and reused/disposed in accordance with site procedures. <u>Description:</u> Radioactive sources from exit signs and smoke detectors, fire extinguishers, and emergency lantern batteries contain hazardous materials and therefore are removed. A walk down is conducted to verify the removal of the previously identified items.	X		
Facility-specific	14. Remove/reuse/excess/dispose unused chemicals. <u>Description:</u> This end point ensures the removal and disposition of stored chemicals. A walk down of the structure will be performed to verify stored chemicals have been removed.	X		
Facility-specific	15. Stabilize below grade spaces in buildings to preclude release of contamination and structural collapse thereby eliminating the need for surveillance and maintenance entries. <u>Description:</u> This may include application of a fixative to the walls, ceiling, floors, equipment, piping, ducting, etc. as well as of any exposed soil. Additionally, a structural assessment will be performed on the cover slab. If structural integrity is questionable, then the space may be backfilled and/or the existing cover slab reinforced.	X		
Facility-specific	16. Remove/fix/contain radioactive contamination. <u>Description:</u> This end point ensures the project has mitigated the potential for contamination migration. A review of the structures' final radiological survey report and map will be conducted to verify mitigation of contamination areas has been complete.		X	Contamination control will be conducted throughout the D4 process; final radiological surveys and activities to remove/fix/contain contamination will be conducted after all demolition and final stabilization are complete.

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Facility-specific	17. Seal structure foundation/slab (or roof in the case of 291-Z) with material having a minimum twenty year life with minimal maintenance. <u>Description:</u> It is expected the remaining foundation/slab will remain for several years. A contamination control cap may be installed to inhibit the potential for radiological or hazardous material migration. In the case of 291-Z, 234-SZ, and 216-Z-9 this includes sealing below-grade access doors and backfilling the stairwells and applying a contamination control cap over the stairwells at grade level. When finished, entry to below-grade spaces will be impossible.		X	Stabilization will be conducted after above grade structures are removed; final stabilization for the site will be established following slab removal.
Facility-specific	18. Verify that the portions of the remaining slab exposed to the weather are free of radiological contamination (contamination may be fixed and below a contamination control cap) to ensure contamination will not migrate to the environment during the surveillance and maintenance phase. <u>Description:</u> A final radiological survey will be conducted and the results reviewed. Any identified exposed radiological contamination will be removed or fixed and covered with a contamination control cap.		X	Radiological surveys and application of contamination control measures will occur throughout the D4 process. Final radiological surveys on remaining exposed slabs and stabilization of the area will occur following slab removal.
Facility-specific	19. Perform radiological survey and post radiological conditions in accordance with site radiological requirements. <u>Description:</u> A walk down will be conducted with the final radiological survey to verify postings are in compliance with site procedures.		X	Radiological surveys and posting will occur throughout the D4 process. Final radiological surveys and postings will occur following slab removal.
Facility-specific	20. Remove/dispose of non-hazardous, radioactive, hazardous, and mixed waste in accordance with approved waste handling procedures and regulatory requirements. <u>Description:</u> A final review of waste handling and disposal paperwork will be conducted to validate compliance.		X	Waste generated as a result of above-grade structure removal will be removed pre-transition. Additional waste will be generated/removed during and after slab removal.
Facility-specific	21. Slab is labeled/posted for radiological conditions (dose/contamination) and industrial hazards in accordance with approved site procedures. <u>Description:</u> After the structures' end point condition is met, cognizant personnel will perform an audit to verify site required postings are in place. This audit may be conducted to verify there are not any postings if none are required.		X	Areas may be re-posted following slab removal if conditions change. Final PFP Complex conditions will be evaluated in Complex-wide criteria 42 & 43.

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
<p>Complex-wide criteria 22-45 apply to the general PFP yard/grounds or to the PFP Complex as a whole. Some of the endpoints that relate to specific physical structures can be achieved as part of above-grade structure and below-grade component removal and are designated as applicable to pre-transition activities. Many of the complex-wide criteria involve components that will continue to be used through slab removal, require a final complex-wide walkdown that will be conducted after slab removal and final site stabilization, or require reports or documentation that will become part of the final site turnover package that will be completed after final site stabilization activities have been completed. These are designated as applicable during S&M.</p>				
Complex-wide	<p>22. Remove miscellaneous above-grade structures/materials (e.g. camera towers, security monitoring systems, con ex boxes, lay down yards, guard pill boxes, staging area shelter, dumpsters, etc.).</p> <p><u>Description:</u> To meet the project objective, above grade structures/ materials will be removed. Removal of these miscellaneous structures and materials will be verified by a PFP Complex walk down.</p>		X	Inactive fixed structures will be removed as part of the above-grade structure removal. Active fixed structures (such as fire hydrants) and equipment (such as storage containers, dumpsters, and waste boxes) used to support slab removal and site stabilization activities will remain until they are no longer needed.
Complex-wide	<p>23. Remove the inner fence to alleviate the collection of tumbleweeds.</p> <p><u>Description:</u> The exclusion area fence is a known tumbleweed accumulation point. One fence will be removed to limit the need to remove the collected tumbleweeds.</p>	X		
Complex-wide	<p>24. Post and isolate below grade systems and building foundations/slabs with subsurface void areas to prohibit vehicle traffic.</p> <p><u>Description:</u> Signs will be posted over below grade voids unable to support vehicle traffic. A review of post demolition drawings will identify the locations requiring postings. A walk down will be conducted to verify proper postings are in place.</p>		X	While areas will be posted, as needed, throughout the D4 process, final postings, review of post-demolition drawings, and final walkdown will occur following completion of slab removal as part of final site stabilization.
Complex-wide	<p>25. Isolate/seal manhole covers to prevent rain water/run off entering liquid and inhibiting personnel access to eliminate the confined space.</p> <p><u>Description:</u> Manhole covers will be sealed to inhibit water intrusion. The manhole covers will be secured in place to prevent personnel access and allow removal from confined space listings.</p>		X	Some manholes may be necessary during the Stage 1 S&M period and will not be sealed until that stage is complete. Manholes that could be impacted by demolition activities will be sealed or filled prior to demolition to eliminate or mitigate impacts.
Complex-wide	<p>26. Document compliance with confined space program for inclusion in the transition & dismantlement completion package.</p> <p><u>Description:</u> A qualified representative will walk down the PFP Complex and document compliance with site confined space requirements.</p>		X	While individual confined spaces may be closed throughout the D4 process, documentation for the final turnover package will occur following completion of slab removal as part of final site stabilization.
Complex-wide	<p>27. Document compliance with the site asbestos program for inclusion in the transition & dismantlement completion package.</p> <p><u>Description:</u> A qualified representative will walk down the PFP Complex and document compliance with site asbestos requirements.</p>		X	While asbestos inspections and assessments will occur for individual facilities throughout the D4 process, the final assessment to document compliance for the turnover package will occur following completion of slab removal as part of final site stabilization.

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Complex-wide	28. Verify waste accumulation areas are eliminated. <u>Description:</u> Document that waste accumulation areas have had stored waste removed and that documentation has been submitted to reflect that waste is no longer being stored/staged in the identified areas. A copy of the paperwork reflecting the cessation of active use will be placed into the completion package files.		X	Waste accumulation areas will continue to be in use until after slab removal is complete.
Complex-wide	29. Isolate the PFP Complex electrical supply at a point minimizing electrical dead legs. <u>Description:</u> Electricity will be isolated from the PFP Complex. Electrical system modifications may be required to continue to provide power to non-PFP systems located within the complex (e.g. lift station). Isolation will be done to limit the isolation points and electrical dead legs. Drawings will be updated and work packages and essential drawings will be reviewed to verify they reflect the electrical isolation.		X	Temporary power supplies will be used, as needed, throughout the D4 process. Final isolation of the normal electrical supply will occur during the Stage 1 S&M period.
Complex-wide	30. Isolate the PFP Complex water supply, at a point minimizing dead legs, and drain to the extent possible utilizing existing configuration. <u>Description:</u> Water will be isolated from the PFP Complex. Water system modifications may be required to continue to provide water to non-PFP systems located within the complex. Isolation will be done to minimize the number of isolation points and dead legs. Drawings will be updated and work package(s) and essential drawings will be reviewed to verify they reflect the water isolation.		X	Water supply will be needed throughout the D4 process and slab removal. Isolation of the water supply will occur after slab removal is complete.
Complex-wide	31. Backfill the PFP Complex specific septic tanks. <u>Description:</u> Septic tanks associated with the PFP Complex will be backfilled prohibiting further use. Identified septic tanks are 2607-Z, 2607-Z1, and 2607-WA. Ownership of 2607-WB will be transferred to the landlord organization since it is associated with the mobile office trailers located outside the PFP fences and are not within the scope of this project.	X		Note that 2607-WA is outside the outer security fence and will continue to be actively used after completion of the PFP Closure Project.
Complex-wide	32. Remove the PFP Complex specific above grade steam lines. <u>Description:</u> Steam lines will be removed were they run above grade inside the outer PFP fence to prevent the potential insulation degradation. All loose ends of the steam line will be properly encapsulated to protect any remaining asbestos insulation. Steam lines will be properly supported to eliminate industrial hazards.		X	Final removal of steam lines and supports will be completed as part of final site stabilization during the Stage 1 S&M period.
Complex-wide	33. Remove the PFP Complex specific utility poles. <u>Description:</u> Unused/unneeded utility poles associated with only the PFP Complex will be removed and disposed.		X	Final removal of PFP-Complex specific utility poles will be completed as part of final site stabilization during the Stage 1 S&M period.

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Complex-wide	34. Remove vegetation from radiologically contaminated areas. <u>Description:</u> Vegetation will be removed from contaminated areas and the area will be sprayed to inhibit new vegetation growth.		X	While individual areas with vegetation may be removed throughout the D4 process, the final sweep for vegetation and spraying will occur following completion of slab removal as part of final site stabilization.
Complex-wide	35. Grade soil to promote drainage away from remaining below-grade structures. <u>Description:</u> The soil shall be graded to promote drainage away from below grade structures utilizing good management practices. The distance away from the structure and slope angle will be evaluated for each below grade structure with underground ducting and other below grade structures taken into consideration.		X	While some soil grading may be conducted throughout the D4 process, final soil grading will occur following completion of slab removal as part of final site stabilization.
Complex-wide	36. Complete soil stabilization to mitigate dust/erosion. <u>Description:</u> Where structure removal or grading leaves newly exposed soil, the area will be stabilized. Review of work packages and site walk downs will be completed to verify the completion of this end point.		X	While some soil stabilization to mitigate dust/erosion may be conducted throughout the D4 process, final soil stabilization activities will occur following completion of slab removal as part of final site stabilization.
Complex-wide	37. Post locations of below grade equipment (e.g. buried ducting). <u>Description:</u> Below grade equipment remaining after transition and dismantlement will be posted/documentated and provided to the oncoming project/contractor.		X	While below-grade equipment posting will occur throughout the D4 process where needed, final documentation for the turnover package will occur following completion of slab removal as part of final site stabilization.
Complex-wide	38. Transfer ownership of PFP WIDS Sites to the Central Plateau S&M organization. <u>Description:</u> Waste Information Data Systems (WIDS) sites associated with the PFP Complex will be transferred to the oncoming project/contractor. The WIDS sites database will be updated to reflect the condition as of transfer to the S&M phase.		X	The discovery site process will continue following slab removal in accordance with TPA procedure MP-14. This may result in identification of new WIDS sites. Transfer of WIDS sites to Central Plateau S&M will be completed during the Stage 1 S&M period.
Complex-wide	39. Develop and issue an EE/CA to evaluate remediation alternatives for follow on PFP site disposition and follow-on remedial action. <u>Description:</u> Develop and issue an EE/CA to evaluate remediation alternatives for subsequent PFP site disposition and closure. An Action Memorandum will be issued by RL.	X		

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Complex-wide	<p>40. Transfer ownership of Tank 241-Z-361 to the Central Plateau S&M organization.</p> <p><u>Description:</u> Tank 241-Z-361 will be treated like other underground waste sites at PFP. To support the S&M of the tank the following information actions will be provided to the S&M organization:</p> <ul style="list-style-type: none"> • An EE/CA will be performed to evaluate remediation options and an Action Memorandum will be issued. • The structural integrity of the tank will be verified. • The HEPA filter(s) will be tested and shown to be compliant 	X		
Complex-wide	<p>41. Provide administrative/physical controls to prevent unauthorized access to unauthorized storage of hazardous/radioactive materials.</p> <p><u>Description:</u> The intent of this end point is to prevent post transition and dismantlement accumulation of materials. A single fence will remain around the PFP Complex with access gates locked. The keys will be controlled by PFP Complex personnel and subsequently transferred to the S&M organization to prevent unauthorized access.</p>		X	Activation of final site controls will occur following slab removal and completion of final radiological and industrial hazards surveys and postings associated with endpoints 42 and 43.
Complex-wide	<p>42. Document radiological conditions in final survey report for inclusion in the transition & dismantlement completion package.</p> <p><u>Description:</u> A final radiological survey will be conducted and documented in accordance with a survey plan.</p>		X	This is a compilation for the turnover package of facility-specific radiological surveys to be conducted for individual facilities in accordance with facility-specific endpoint 19.
Complex-wide	<p>43. Document remaining industrial hazards and compliance with site industrial safety requirements for inclusion in the project turnover package.</p> <p><u>Description:</u> A safety representative will walk down the remaining structure and document compliance with site requirements and remaining hazards.</p>		X	This is a compilation for the turnover package of facility-specific industrial hazards evaluations to be conducted for individual facilities in accordance with facility-specific endpoint 21.
Complex-wide	<p>44. Utilizing current process knowledge and historic information, document amount and location of remaining radiological issues/hazardous substances/dangerous wastes for inclusion in the project turnover package.</p> <p><u>Description:</u> Remaining hazardous substances/dangerous wastes will be documented and placed into the completion files. Utilization of historic knowledge of spills and process upsets will be used to develop the document.</p>		X	The final report on the location of remaining radiological issues, hazardous substances, and dangerous wastes will be developed when the site configuration is established after slab removal as part of final site stabilization.
Complex-wide	<p>45. Project turnover package items are provided: Final radiological surveys, work plans/packages, description/photos, modified configuration management documents, historical information, compliance documents that define the condition at completion of the project.</p> <p><u>Description:</u> The items identified in the end point will be compiled and placed in the completion package files.</p>		X	Identified items will be gathered throughout the D4 process; the final turnover package will be completed after slab removal and final site stabilization are completed.

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
<p>Administrative criteria 1-17 generally involve documentation of conditions or compliance with the PFP Complex as a whole. Many involve reports or documentation that will be part of the final turnover package after structures are removed, and slab removal and final site stabilization are completed. These criteria are designated as applicable during the S&M period. A few involve documentation of specific items that are already completed or can be completed as part of the above-grade structure removal and are designated as applicable to Pre-transition activities.</p>				
Admin	<p>1. Complete/close outstanding audit findings and occurrence reports. <u>Description:</u> A review of facility and site action tracking systems and open occurrence reports will be conducted and items will be addressed and closed.</p>		X	Audits will continue throughout the slab removal period which may result in findings to be closed. The potential for occurrence reports exists as long as D4 activities are being conducted.
Admin	<p>2. Document configuration management performed in accordance with site standards. <u>Description:</u> The final configuration of the PFP Complex will be reviewed against controlled drawings to verify proper incorporation of structure and utility modifications/isolations.</p>		X	The final review of site configuration against controlled drawings will be conducted in support of the turnover package development following slab removal and final site stabilization.
Admin	<p>3. Provide essential drawings and a list of all facility drawings necessary for S&M. <u>Description:</u> This end point will be done in conjunction with the development of the draft S&M Plan. The essential drawing list will be updated to reflect the condition of the PFP Complex area at the end of the project. A separate list containing both the essential drawing and those required to support S&M.</p>		X	The final documentation of essential and facility drawings will occur following slab removal and final site stabilization.
Admin	<p>4. Document remaining industrial hazards and compliance with industrial safety requirements. <u>Description:</u> This end point compiles the individual end points into one report reflecting the remaining industrial hazards.</p>		X	The final documentation of industrial hazards will be developed in conjunction with complex-wide criterion 43.
Admin	<p>5. Document compliance with confined space program. <u>Description:</u> This end point compiles the individual end points into one report reflecting the remaining confined spaces.</p>		X	Documentation of the final list of confined spaces and disposition of closed confined spaces will be developed in conjunction with complex-wide criterion 26 for the final turnover package following slab removal and final site stabilization.
Admin	<p>6. Document compliance with the asbestos program. <u>Description:</u> The post demolition condition of the PFP Complex will be assessed for compliance with the site asbestos program.</p>		X	Documentation of the final assessment of the PFP asbestos conditions will be developed in conjunction with complex-wide criterion 27 for the final turnover package following slab removal and final site stabilization.

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		Pre-transition	During S&M	
Admin	7. Document amount and location of remaining hazardous substances and/or dangerous wastes. <u>Description:</u> This end point compiles the individual end points into one report reflecting the remaining hazardous substances/dangerous wastes.		X	The final report documenting hazardous substances and/or dangerous wastes remaining in the PFP Complex will be included in the turnover package developed following slab removal and final site stabilization.
Admin	8. Complete and provide current Fire Hazards Analysis (FHA). <u>Description:</u> An FHA will be completed reflecting the end point condition of the PFP Complex.		X	The final FHA reflecting the endpoint condition of the PFP Complex will be included in the turnover package developed following slab removal and final site stabilization.
Admin	9. Transfer facility physical property records. <u>Description:</u> The property records for the PFP Complex will be updated as the transition & dismantlement effort removes excess and or disposes of property.		X	The final update of property records will be completed following slab removal and final site stabilization.
Admin	10. Provide a Surveillance & Maintenance Plan (S&M). <u>Description:</u> The transition & dismantlement project/contractor has the historic and current knowledge of the PFP Complex. Therefore, they will develop a S&M Plan for the Surveillance and Maintenance organization. The oncoming project/contractor has the responsibility to release the S&M Plan under their document release procedures.	X		
Admin	11. Provide a current/updated building emergency plan. <u>Description:</u> The PFP Complex building emergency plan will be updated (or cancelled) to reflect the end point condition.		X	The Building Emergency Plan will be updated or cancelled after slab removal.
Admin	12. Provide S&M procedures and files. <u>Description:</u> Procedures utilized by the transition & dismantlement project/contractor to conduct surveillance and maintenance at the end of the project will be copied and placed in the completion package files.		X	Final procedures for S&M will be included in the turnover package developed following slab removal and final site stabilization.
Admin	13. Provide identified regulatory commitments and regulatory documentation. <u>Description:</u> The transition & dismantlement project/contractor has the historic and current knowledge of the PFP Complex existing commitments and documentation. As such, the transition & dismantlement project/contractor will compile outstanding commitments and documentation to support the S&M organization to complete the commitments/documentation. These along with recently (within the last year of the project) completed commitments documentation (closure/completion letters) will be included in the completion package files.		X	The final list of regulatory commitments and documentation will be included in the turnover package developed following slab removal and final site stabilization.
Admin	14. Transfer classified documents to repository. <u>Description:</u> All classified documents will be removed from the PFP Complex and placed in a site approved repository.	X		

Type	Endpoint Criteria	Applicability		Comments
		Pre-transition	During S&M	
Admin	<p>15. Verify transition and dismantlement completion package contents are complete.</p> <p><u>Description:</u> This is a final review of the document log for the completion package files. This will ensure the intended documentation provided in the files have not been removed or checked out and not returned.</p>		X	The final turnover package will be completed and reviewed following slab removal and final site stabilization.
Admin	<p>16. Provide existing regulatory permitting documentation.</p> <p><u>Description:</u> The remaining regulatory permits and supporting documentation will be compiled and provided to the S&M organization.</p>		X	The final list of regulatory permits will be included in the turnover package developed following slab removal and final site stabilization.
Admin	<p>17. Compile available historical data including chemical and plutonium spills, holdup, releases, and constituents associated with building processing to support final remediation.</p> <p><u>Description:</u> This end point is designed to capture useful information on the remaining structures/systems that has been kept by facility personnel (i.e. engineers, health physics, operations, etc.) and is not available through other sources prior to their leaving the facility. This data will be compiled and placed in the completion package files. Documentation already maintained by the Hanford site document control system and/or libraries will be referenced only.</p>		X	Identified items will be gathered throughout the D4 process; the final turnover package will be completed during the Stage 1 S&M period.