DNFSB Recommendation 94-1 Hanford Site Integrated Stabilization Management Plan

Date Published
October 1995

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management

**Westinghouse
Hanford Company**

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Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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Document Number: WHC-EP-0853, Rev. 1, Volumes 1 and 2

Document Title: DNFSB Recommendation 94-1 Hanford Site Integrated Stabilization Mangement Plan

Release Date: 10/27/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz

October 27, 1995

**DNFSB RECOMMENDATION 94-1
HANFORD SITE INTEGRATED STABILIZATION
MANAGEMENT PLAN
VOLUME 2: SCHEDULES**

EXECUTIVE SUMMARY

The Hanford Site Integrated Stabilization Management Plan (SISMP) was developed in support of the U.S. Department of Energy's (DOE) Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 94-1 Integrated Program Plan (IPP). Volume 1 of the SISMP identifies the technical scope and costs associated with Hanford Site plans to resolve concerns identified in DNFSB Recommendation 94-1. Volume 2 of the SISMP provides the Resource Loaded Integrated Schedules for Spent Nuclear Fuel Project and Plutonium Finishing Plant activities identified in Volume 1 of the SISMP.

Appendix A provides the schedules and progress curves related to spent nuclear fuel management. Appendix B provides the schedules and progress curves related to plutonium-bearing material management. Appendix C provides programmatic logic diagrams that were referenced in Volume 1 of the SISMP.

APPENDIX A

HANFORD SITE SPENT NUCLEAR FUEL SCHEDULES

Activity ID			Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
ENVIRONMENTAL IMPACT STATEMENT																
IP36-010A		02OCT95*	31DEC95		▼ PREPARE K-BASINS EIS											
IP36-010			31DEC95		◆ ISSUE K-BASINS EIS ROD											
K-BASINS FUEL REMOVAL																
IP36-012A		02OCT95*	31DEC97		▼ PERFORM K-BASINS FUEL REMOVAL PREPARATION											
IP36-012			31DEC97*		◆ COMPLETE K-BASINS FUEL REMOVAL PREPARATION											
IP36-001A		31DEC97	31DEC99		▼ K-BASINS FUEL LOADOUT OPERATIONS											
IP36-001			31DEC99*		◆ COMPLETE K-BASINS FUEL LOADOUT OPERATIONS											
Project Integration 1.4.1.01																
IP3612AB10		02OCT95	01DEC97		▼ Perform Proj Integration Prior to Basin Loadout											
IP3612AB17		15DEC95*	29APR96		▼ Prepare FY-98 ADS											
IP3612AB15			15JAN96*		◆ Submit Change Request for IPS											
IP3612AB18			29APR96		◆ Issue FY-98 ADS											
IP3612AB19			03SEP96*		◆ Issue FY-97 MYPP											
IP3601AB20		02DEC97	30NOV00		▼ Project Integration During Basins Loadout											
Systems Integration 1.4.1.02																
IP3612AC12		02OCT95*	30JAN96		▼ Conduct System Requirements Review											
IP3612AC16		02OCT95*	30SEP96		▼ Perform Process Engineering Integration											
IP3612AC20		02OCT95*	29AUG96		▼ Prep Process Safety Analysis Integration Report											
IP3612AC26		02OCT95*	02JAN96		▼ Prepare Rev 0 Process Flow Diagram											
IP3612AC32		02OCT95*	30SEP96		▼ Design Safeguard & Accountability System											
IP3612AC11			15NOV95*		◆ Issue FY-96 Technical Baseline Document											
IP3612AC22		19DEC95*			◆ Issue Risk Management Plan											
IP3612AC28			02JAN96		◆ Issue Rev 0 Process Flow Diagram											
IP3612AC30		03JAN96	30SEP97		▼ Update Process Flow Diagram											
IP3612AC14			30JAN96		◆ Complete Systems Requirements Review											
IP3612AC13			01APR96*		◆ Issue SNF Process Flow Diagram											
IP3612AC24			29AUG96		◆ Process Safety Analysis Integration Report											
IP3612AC34		01OCT96	01DEC97		▼ Install Safeguards accountability System											
IP3601AC36		02DEC97	30JUN00		▼ Operate Safeguards & Accountability System											
Technology Acquisition 1.4.1.02.01.03																
IP3612AC42		02OCT95*	31JUL96		▼ Perf Analysis of Fuel Ignit/Vent/Safe Parameters											
Project Start 27SEP95 Project Finish 30SEP96 Data Date 02OCT95 Plot Date 25OCT95					IMS1 Westinghouse Hanford Company Spent Nuclear Fuel SISMP (Issue Date 10/23/95)											
Early Bar Progress Bar Critical Activity					Sheet 1 of 7 FY-96 MYPP Date Revision Checked/Approved											
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Activity ID	Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
IP3612AC46	02OCT95*	30SEP97	▼Prep/Maintain Tech Devel & Peer Review											
Fuel Characterization 14.1.02.02														
IP3612AC50	02OCT95*	29FEB96	▼Prepare KW Fuel Characterization Shipment											
IP3612AC54	02OCT95*	28JUN96	▼Prepare KE Fuel Characterization Shipment											
IP3612AC60	02OCT95*	02JAN98	▼Perform Fuel Drying/Conditioning Testing											
IP3612AC72	02OCT95*	30SEP96	▼Sample KE & KW Canister Sludge											
IP3612AC76	02OCT95*	30SEP96	▼Determine KE Floor/Pit Sludge Characteristics											
IP3612AC78		15DEC95*	◆Issue Composition of KE Floor/Pit Sludge											
IP3612AC70	02JAN96*	31MAR98	▼Perform Fuel Dry Storage Testing											
IP3612AC52		29FEB96	◆Complete Ship of KW Fuel to Hot Cells											
IP3612AC82	01MAY96*	30SEP96	▼Determine Canister Sludge Drying Behavior											
IP3612AC56		28JUN96	◆Complete Shipment of KE Fuel to Hot Cells											
IP3612AC62		28JUN96*	◆Issue 1st Fuel Drying Data Rpt for Process Defn											
IP3612AC64	01JUL96*	30APR98	▼Perform Fuel Ignition Testing											
IP3612AC84	01JUL96*	02JAN97	▼Determine Canister Sludge Reactivity/Comp											
IP3612AC74	05AUG96*	31MAR97	▼Sample KW Floor/Pit Sludge											
IP3612AC66		30SEP96*	◆Complete KW Fuel Ignition Testing											
IP3612AC80		30SEP96	◆Determine KE Floor/Pit Sludge Accept at TWRS											
IP3612AC86	01APR97	31MAR99	▼Continue Fuel & Sludge Confirmation Testing											
K-Basins Maint & Operations 14.1.03														
IP3612AD10	02OCT95*	01DEC97	▼Perform K Basin Op/Maint Prior to Loadout											
IP3612AD30	02OCT95*	29MAR96	▼Complete K Basin Design Basis Reconstitution											
IP3612AD16		29DEC95*	◆Compl K-Basins TIM Resolution											
IP3612AD12		26MAR96*	◆Compl Update K-Basin Maint Implementation Plan											
IP3612AD14		29MAR96*	◆Compl K-Basins Ess Drawings & Sys Descriptions											
IP3601AD20	21OCT97*	30NOV00	▼Perform K Basins Ops/Maint During Loadout											
IP3601AD40		30NOV00	◆Turnover Basins to Transition Project											
K-Basins Facility Projects 14.1.04.01														
IP3612AE22	02OCT95*	29APR97	▼Design/Install K Basin Facility Upgrades											
IP3612AE30	02OCT95*	30SEP96	▼Perform K Basins Office Trailer Relocations											
IP3612AE34	02OCT95*	30JUN97	▼Design/Instl Fac for Basin Loadout Personnel											

Project Start 27SEP95 Early Bar
 Project Finish 30SEP97 Progress Bar
 Data Date 02OCT95 Critical Activity
 Plot Date 25OCT95

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 Spent Nuclear Fuel
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FY-96 MYPP

Date	Revision	Checked	Approved

Activity ID	Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
IP3612AE36	02OCT95*	30JUN97	Design/Instl Support Fac for Basin Loadout Opns											
IP3612AE24		30OCT95*	Completion of K Basin Roof Repair											
Dose Reduction 1.4.1.04.02														
IP3612AF15	02OCT95*	10MAY96	Perform K Basins Walls Dose Reduction											
Fuel Removal 1.4.1.04.03														
IP3612AG14	02OCT95*	02JAN96	Perform Fuel Removal Design Studies											
IP3612AG40	02OCT95*	28APR97	Perform Fuel Removal Sys Safety Analysis/Permit											
IP3612AG20		03OCT95*	Award fuel Removal Sys Design Task											
IP3612AG24	16OCT95*	16AUG96	Design Fuel Removal System											
IP3612AG16		02JAN96*	Complete Fuel Removal System Studies											
IP3612AG22		01FEB96*	Complete SNF Fuel Removal Prelim Design											
IP3612AG26		15AUG96*	Complete Fuel Removal System Design											
IP3612AG42		29AUG96*	Confirm FRS Air Compliance											
IP3612AG35	01OCT96*	29APR97	Design/Install Fuel Removal Sys Basin Mods											
IP3612AG30	17DEC96*	15AUG97	Procure/Fab/Install Fuel Removal Sys Eqmt											
IP3612AG45	29APR97*	01DEC97	Perform Fuel Removal Syst Proc/Train/ORR											
IP3601AG46	02DEC97		Start K Basins Fuel Loadout											
IP3601AG50	02DEC97	30NOV99	Perform Fuel Loadout Operations											
IP3601AG56		30NOV99	Complete Fuel Loadout Operations											
Water Removal/Disposition 1.4.1.04.06														
IP3612AJ32	02OCT95*	15NOV95	Install BNFS K East											
IP3612AJ35	02OCT95*	07FEB96	Compl Install of Basin Water Filtration System											
IP3612AJ37	02OCT95*	28FEB96	Develop Water System Upgrade F&R											
IP3612AJ33		15NOV95*	Compl KE Basin Filtration Upgrade											
IP3612AJ31		22DEC95*	Transmit KW Air Permit NOC Written App to WDOH											
IP3612AJ36		07FEB96*	Compl KW BWTS Ready for Operation											
IP3612AJ40	08FEB96*	30SEP97	Design/Install/Start Up Basin Water Sys Upgrade											
IP3612AJ39		29FEB96*	WHC Submit Water Removal SARP to RL											
IP3612AJ43	01MAR96*	01JUL96	Develop Legacy IXC & F&R											
IP3612AJ41		30SEP97	Complete Basin Water System Upgrade											
IP3601AJ45	01OCT97*	29SEP00	Dispose of Legacy Water System IXC's											

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Project Start 27SEP95 Early Bar
 Project Finish 30SEP97 Progress Bar
 Data Date 02OCT95 Critical Activity
 Plot Date 25OCT95

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Date	Revision	Checked	Approved

Activity ID	Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Deactivate K-Basin 1.4.1.04														
IP3612AK55	02JAN96*	30SEP96	Conduct Basins Transition Interface Planning											
MCO Acquisition 1.4.1.05														
IP3612AL60	02OCT95*	12FEB96	Prepare MCO Phase 1 Design											
IP3612AL66	02OCT95*	08NOV96	Develop/Approve MCO Topical Design Report											
IP3612AL64	04DEC95*	14MAY96	Fab Qualification Test MCO											
IP3612AL61		10FEB96*	Compl MCO Phase I Design											
IP3612AL62	13FEB96	11NOV96	Perform MCO Design Testing											
IP3612AL65		06MAY96*	Compl MCO Testing											
IP3612AL72	12NOV96	22MAY97	Prepare MCO Phase 2 Design											
IP3612AL70	06MAR97*	02SEP97	Fab/Deliver Initial MCO Order											
IP3612AL71		02SEP97	Receive First MCO											
IP3601AL75	03SEP97	25FEB99	Fab/Deliver Remaining MCO Order											
IP3612AL73	03SEP97	01DEC97	Turnover MCO to Operations											
Cask/Transportation System 1.4.1.06														
IP3612AM12	02OCT95*	22JAN96	Perform Cask/Transport Design Study											
IP3612AM14	02OCT95*	27DEC96	Bid/Award Cask/Transport Design											
IP3612AM16		27DEC95*	Award Cask/Transport Design Contract											
IP3612AM20	23JAN96	07JAN97	Design Cask Transporter											
IP3612AM24	23JAN96	18APR96	Prepare Cask/Transfer Preliminary Design											
IP3612AM30	23JAN96	20AUG96	Design/Fab Qual Test Cask											
IP3612AM36	23JAN96	30SEP96	Prepare/Perform Cask Qual Test											
IP3612AM50	23JAN96	16MAY96	Prepare Draft SARP											
IP3612AM70	23JAN96*	01MAR96	Define Basin Mods for Transport System											
IP3612AM75	04MAR96	07OCT96	Design Basin Mods for Transport System											
IP3612AM25		25APR96*	Compl Cask Preliminary Design											
IP3612AM51		16MAY96*	Develop C/T Draft SARP											
IP3612AM34		20AUG96	Complete Qual Test Cask											
IP3612AM37		30SEP96*	Compl Cask/Transfer Performance Testing											
IP3612AM26	01OCT96*	15JAN97	Prepare Cask/Transfer Final Design											
IP3612AM55	01OCT96	11MAR97	Prepare/Approve Final SARP											

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Project Start 27SEP95 Early Bar
 Project Finish 30SEP96 Progress Bar
 Data Date 02OCT95 Critical Activity
 Plot Date 25OCT95

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Date	Revision	Checked	Approved

Activity ID	Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
IP3612AM80	08OCT96	28AUG97	Install Basin Mods for Transport System											
IP3612AM46	23JAN97*	22MAY97	Fab/Accept Cask Transporter											
IP3612AM60	23JAN97	19SEP97	Develop Procedures/Train Transport Opr Crew											
IP3612AM40	12MAR97*	10JUL97	Fabricate/Accept Cask Transfer Equipment											
IP3612AM44	12MAR97	10JUL97	Fabricate/Accept Cask Initial Order											
IP3612AM41		09APR97*	Compl Cask/Transfer Fab											
IP3612AM65	22SEP97	01DEC97	Perform Transportation ORR											
Canister Storage Building 1.4.1.07.01														
IP3612AN11	02OCT95*		Start Definitive Design - CSB											
IP3612AN13	02OCT95*	29MAY96	Perform CSB Design											
IP3612AN18	02OCT95*	08AUG97	Procure CSB Equipment											
IP3612AN36	02OCT95*	29DEC96	Review/Approve CSB PSE/FHA											
IP3612AN38	02OCT95*	07NOV96	Prepare CSB SAR/TSR											
IP3612AN50	02OCT95*	30DEC96	Prepare/Approval CSB Permits											
IP3612AN34	25OCT95*	02JAN96	Obtain DOH/EPA Approval CSB Construction Start											
IP3612AN14	01DEC95*		Complete Advanced Conceptual Design											
IP3612AN09		02JAN96*	Start of Procurement (GFE for CSB)											
IP3612AN12		02JAN96*	Receive Notice to Proceed on Resumption of CSB											
IP3612AN20	29JAN96*	01OCT97	Mobilize/Construct CSB											
IP3612AN16		01JUN96*	Complete CSB Definitive Design											
IP3612AN40	04JUN96*	21NOV97	Review/Approve CSB SAR											
IP3612AN24	01OCT96*	01DEC97	Perform CSB Utility Tie-ins											
IP3612AN26	30OCT96*	04NOV97	Prepare/Perform CSB Ops Procedures & Test											
IP3612AN28	02JAN97*	01DEC97	Prepare/Perform CSB ORR											
IP3612AN22		01OCT97	Complete CSB Construction											
IP3612AN30		01DEC97	Issue CSB Declaration of Readiness											
Canister Storage Building Ops 1.4.1.07.02														
IP3601AO10	02DEC97*	10MAY00	Conduct CSB Wet/Dry Storage Operations											
IP3601AO45	01JUL98*	30JUN00	Transfer/Receive CSB Fuel to CF											
IP3601AO20	05JUL00*	30NOV00	Conduct CSB Dry Storage Operations											
IP3601AO31		17OCT00	Transition CSB Operations											

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Project Start 27SEP95 Early Bar
 Project Finish 30SEP97 Progress Bar
 Data Date 02OCT95 Critical Activity
 Plot Date 25OCT95

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Activity ID	Early Start	Early Finish	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
IP3601AO30		30NOV00							◆Complete SNFP Dry Storage Period					
K-BASINS SLUDGE REMOVAL														
HSNF0AA	02OCT95	31OCT97												
HSNF0AB	03NOV97	30NOV00												
Sludge Removal - 1.4.1.04.04.01														
HSNF0AAH20	02OCT95*	29MAR96												
HSNF0AAH30	02OCT95*	02DEC96												
HSNF0AAH40	02OCT95*	02JAN97												
HSNF0AAH45	02OCT95*	30SEP96												
HSNF0AAH76	02OCT95*	29MAY96												
HSNF0AAH82	02OCT95*	30SEP96												
HSNF0AAH85	02OCT95*	30SEP96												
HSNF0AAH90	02OCT95*	01MAY97												
HSNF0AAH46	13NOV95*													
HSNF0AAH31	12JAN96*													
HSNF0AAH48	26FEB96*													
HSNF0AAH17		29FEB96*												
HSNF0AAH21		29MAR96*												
HSNF0AAH35	29APR96*													
HSNF0AAH37	30APR96*													
HSNF0AAH78	30MAY96	22AUG96												
HSNF0AAH80	03JUN96*	30OCT96												
HSNF0AAH25		28JUN96*												
HSNF0AAH50	09JUL96*													
HSNF0AAH83	01OCT96	02JUN97												
HSNF0AAH86	01OCT96	30MAY97												
HSNF0AAH70	02DEC96*	30JUN97												
HSNF0AAH75	02DEC96	30JUN97												
HSNF0AAH27		31MAR97*												
HSNF0AAH87	02JUN97	31OCT97												
HSNF0AAH84	03JUN97	31MAR98												

Project Start 27SEP95
 Project Finish 30SEP11
 Data Date 02OCT95
 Plot Date 25OCT95

Early Bar
 Progress Bar
 Critical Activity

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Project Start 1OCT92
 Project Finish 30SEP11
 Data Date 23OCT95
 Plot Date 24OCT95

Schedule dates

SNPS

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 SISMP (Issue Date 10/23/95)
 IP36-012 FUEL REMOVAL PREPARATION

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Project Start 09-27-95
 Project Finish 09-30-11
 Data Date 10-02-95
 Plot Date 10-24-95

Early Bar
 Progress Bar
 Critical Activity

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 IP36-001A FUEL LOADOUT

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APPENDIX B
PLUTONIUM-BEARING MATERIALS SCHEDULES

Activity Classification: SUMMARY LEVEL

ACTIVITY

COST ACCOUNT

WORK PACKAGE

Plot Date 27OCT95
 Data Date 5OCT95
 Project Start 15SEP93
 Project Finish 1JUN06

Activity Bar/Early Dates
 Critical Activity
 Progress Bar
 Milestone/Flag Activity

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 Plutonium Materials Stabilization
 SISMP

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	Fiscal Year												
			FY95	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	
PLUTONIUM RESIDUES & MIXED OXIDES <50% ASSAY ...Six New Muffle Furnaces															
IP33033X	18JUN96	15JUL96	☐ Operational Readiness Review												
IP33033Y	16JUL96	30JUL96	☐ Startup Processing												
IP33033Z	31JUL96	31JAN02	☐ Processing Pu Residue & Mixed Oxides <50% Assay												
IP33026A	1AUG96	31MAR98	☐ Process SS&C Poorly Charact Itms IP-3.3-026												
IP33026		31JAN00	☐ M/S IP-3.3-026 Complete Stabilization of SS&Cs												
IP33033		30MAY02	☐ M/S IP-3.3-033 Comp. Remaining Residue Stab.												
Pu Residue/Mixed Oxides <50% - Polycubes															
IP33028A		29MAR99	☐ Preparation Phase Complete												
IP33028B	20CT95A	29MAR99	☐ Preparation Phase												
IPEE029A		31JAN01	☐ Production Phase Complete - M/S IP-3.3-029												
IP33029B	30MAR99	31JAN01	☐ Production Phase												
...Pyrolysis Furnaces (For Polycubes)															
IP33028C	20CT95A	5JUL96	☐ Engineering Study												
IP33028D	8JUL96	30SEP96	☐ Design												
IP33028E	8JUL96	30SEP96	☐ Safety Analysis												
IP33028F	1OCT96	2JAN97	☐ Procurement												
IP33028G	1OCT96	2JAN97	☐ Site Preparation												
IP33028H	3JAN97	7MAR97	☐ ORR Scoping												
IP33028I	3JAN97	15APR98	☐ Installation												
IP33028J	16APR98	8DEC98	☐ Develop Procedures												
IP33028K	16APR98	8DEC98	☐ Training												
IP33028L	16APR98	8DEC98	☐ Testing												
IP33028M	9DEC98	29MAR99	☐ Operational Readiness Review												
IP33028	30MAR99		☐ M/S IP-3.3-028 Begin Polycube Stabilization												
IP33029C	30MAR99	31JAN01	☐ Process Polycubes IP-3.3-029												
IP33029		31JAN01	☐ M/S IP-3.3-029 Complete Polycube Stabilization												
...Facility Cleanup															
E10595	1OCT93A	1OCT98	☐ PUREX Deact (RL-3.2.1, RL-3.2.4, Part (RL-1.0.5))												
E10510	1OCT94A	29DEC95	☐ 232-Z Cleanup (RL-3.1.2.1)												
Activity Classification: SUMMARY LEVEL															
☐ ACTIVITY			☐ COST ACCOUNT			☐ WORK PACKAGE									
Plot Date 27OCT95 Data Date 5OCT95 Project Start 15SEP93 Project Finish 1JUN06			☐ Activity Bar/Early Dates ☐ Critical Activity ☐ Progress Bar ☐ Milestone/Flag Activity			941B Westinghouse Hanford Company Plutonium Materials Stabilization SISMP			Sheet 3 of 10						
						Date			Revision			Checked		Approved

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ACTIVITY ID	EARLY START	EARLY FINISH	FISCAL YEAR																																			
			FY95	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06																								
PLUTONIUM METAL & OXIDES >50% ASSAY ...Vault Modifications																																						
J10110	2JUN97	28NOV97	☐ Design																																			
.....Phase 1 Construct/Install (2736-ZB)																																						
J10125	1DEC97	2MAR98	☐ Phase 1 (2736-ZB) Procurement																																			
J10126	3MAR98	1JUN98	☐ Phase 1 (2736-ZB) Construction																																			
J10127	3MAR98	1JUN98	☐ Phase 1 (2736-ZB) Installation																																			
J10128		1JUN98	☒ Phase 1 (2736-ZB) Operational																																			
.....Phase 2 Construct/Install (2736-Z Vault 2)																																						
J10135	4JUN98	3SEP98	☐ Phase 2 (2736-Z Vault 2) Procurement																																			
J10136	4SEP98	24DEC98	☐ Phase 2 (2736-Z Vault 2) Construction																																			
J10137	4SEP98	24DEC98	☐ Phase 2 (2736-Z Vault 2) Installation																																			
J10138		24DEC98	☒ Phase 2 (2736-Z Vault 2) Operational																																			
.....Phase 3 Construct/Install (2736-Z Vault 4)																																						
J10145	25DEC98	26MAR99	☐ Phase 3 (2736-Z Vault 4) Procurement																																			
J10146	29MAR99	16JUL99	☐ Phase 3 (2736-Z Vault 4) Construction																																			
J10147	29MAR99	16JUL99	☐ Phase 3 (2736-Z Vault 4) Installation																																			
J10148		16JUL99	☒ Phase 3 (2736-Z Vault 4) Operational																																			
.....Phase 4 Construct/Install (2736-Z Vault 1)																																						
J10155	19JUL99	18OCT99	☐ Phase 4 (2736-Z Vault 1) Procurement																																			
J10156	19OCT99	7FEB00	☐ Phase 4 (2736-Z Vault 1) Construction																																			
J10157	19OCT99	7FEB00	☐ Phase 4 (2736-Z Vault 1) Installation																																			
J10158		7FEB00	☒ Phase 4 (2736-Z Vault 1) Operational																																			
.....Phase 5 Construct/Install (2736-Z Vault 3)																																						
J10165	8FEB00	9MAY00	☐ Phase 5 (2736-Z Vault 3) Procurement																																			
J10166	10MAY00	29AUG00	☐ Phase 5 (2736-Z Vault 3) Construction																																			
J10167	10MAY00	29AUG00	☐ Phase 5 (2736-Z Vault 3) Installation																																			
J10168		29AUG00	☒ Phase 5 (2736-Z Vault 3) Operational																																			
Activity Classification: SUMMARY LEVEL																																						
☒ ACTIVITY			☒ COST ACCOUNT			☒ WORK PACKAGE																																
Plot Date 27OCT95 Data Date 5OCT95 Project Start 15SEP93 Project Finish 1JUN06			Activity Bar/Early Dates Critical Activity Progress Bar Milestone/Flag Activity			941E			Westinghouse Hanford Company Plutonium Materials Stabilization SISMP			Sheet 8 of 10																										
			☒ /P									<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Date	Revision	Checked	Approved																				
Date	Revision	Checked	Approved																																			
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ACTIVITY ID	EARLY START	EARLY FINISH	FY95	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06
			<div>PFP COMMON ACTIVITIES ...PFP Lab Support</div> <div> ☐ ORR Scoping ☐ Installation ☐ Procedures ☐ Training ☐ Testing ☒ Preparation Phase Complete ☐ Operational Readiness Review </div> <div> Production Phase Expanded Operations Production Phase Complete Finish PFP Deactivation </div>											
H10123	3DEC96	7FEB97												
H10125	3DEC96	2JUN97												
H10126	3JUN97	2SEP97												
H10128	3JUN97	2SEP97												
H10130	3JUN97	2SEP97												
H10106A		2SEP97												
H10131	3SEP97	31OCT97												
H10107	3NOV97	31MAY04												
H10140	3NOV97	31MAY04												
H10107A		31MAY04												
Z1000		1JUN06												

Activity Classification: SUMMARY LEVEL

ACTIVITY

COST ACCOUNT

WORK PACKAGE

Plot Date 27OCT95

Data Date 5OCT95

Project Start 15SEP93

Project Finish 1JUN06

Activity Bar/Early Dates

Critical Activity

Progress Bar

Milestone/Flag Activity

941E

Westinghouse Hanford Company

Plutonium Materials Stabilization

SISMP

Sheet 10 of 10

Date	Revision	Checked	Approved

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Transition Project
94-1 Stabilization Program

Westinghouse Hanford Company
Plutonium Materials Stabilization

Residues (Interim Stable)

Transition Project
94-1 Stabilization Program

Westinghouse Hanford Company
Plutonium Materials Stabilization

Metals & Oxides (2,600 Kg Pu)

WHC-EP-0853 REV. 1

10/10/95

Solutions

Transition Project
94-1 Stabilization Program

Westinghouse Hanford Company
Plutonium Materials Stabilization

Polycubes (Combustibles)

Transition Project
94-1 Stabilization Program

Westinghouse Hanford Company
Plutonium Materials Stabilization

WHC-EP-0853 REV. 1

Residues (Reactive Solids)

Westinghouse Hanford Company
Plutonium Materials Stabilization

Transition Project
94-1 Stabilization Program

Residues (Recovered Material)

Westinghouse Hanford Company
Plutonium Materials Stabilization
(Dollars in Millions)

	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>TOTAL</u>
THERMAL TREATMENT								
RESIDUES	\$ 6.2	\$ 4.8	\$ 3.3	\$ 3.2	\$ 3.2	\$ 3.2	\$ 1.7	\$ 25.6
OXIDES	1.1	1.0	3.2	3.5	3.7	3.9	2.1	18.5
SOLUTIONS	1.2	2.2	1.5	0.8	0.0	0.0	0.0	5.7
COMBUSTIBLE RESIDUES	0.3	1.8	0.5	0.7	1.5	0.5	0.0	5.3
FACILITY CLEANOUT AND TCO	2.8	3.3	2.7	3.8	2.3	1.9	4.7	21.5
PACKAGING AND STORAGE	0.9	3.5	14.3	2.1	2.4	0.9	0.4	24.5
LABORATORY SUPPORT	1.4	1.1	1.5	1.5	1.5	1.6	1.6	10.2
PROJECT MANAGEMENT	2.2	3.1	3.2	3.3	3.4	3.6	3.7	22.5
FACILITY MODIFICATIONS/SUPPORT	<u>3.4</u>	<u>2.6</u>	<u>N/A *</u>	<u>2.0</u>	<u>1.7</u>	<u>0.2</u>	<u>0.5</u>	<u>10.4</u>
TOTAL	\$ 19.5	\$ 23.4	\$ 30.2	\$ 20.9	\$ 19.7	\$ 15.8	\$ 14.7	\$ 144.2

* SEE PACKAGING & STORAGE

APPENDIX C

PLUTONIUM-BEARING MATERIALS
PROGRAMMATIC LOGIC DIAGRAMS

TOP-LEVEL PLUTONIUM DISPOSITION LOGIC

WHC-EP-0853 REV. 1
PLUTONIUM INVENTORY MANAGEMENT LOGIC (1.0)

2/22/95

DECISION LOGIC FOR STRATEGIC, PROGRAMMATIC, AND NATIONAL ASSET MATERIALS (2.0)

DECISION LOGIC FOR NEAR TERM STABILIZATION OF REACTIVE RESIDUES (3.0)

2/22/95

DECISION LOGIC FOR DISPOSITION OF PLUTONIUM AS WASTE (4.0)

2/22/95

DECISION LOGIC FOR MATERIALS ≥ 50 WT% PU ASSAY (5.0)

2/22/95

DECISION LOGIC FOR MATERIALS <50 WT% PU ASSAY (6.0)

2/22/95

PLUTONIUM MATERIAL REPACKAGING LOGIC (7.0)

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FACILITY DECISION LOGIC (8.0)

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PROCESS SYSTEMS DECISION LOGIC (9.0)

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