DNFSB Recommendation 94-1 Hanford Site Integrated Stabilization Management Plan

Date Published
August 1995

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**Westinghouse
Hanford Company**

P.O. Box 1970
Richland, Washington

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Kara M. Broz

August 15, 1995

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

EXECUTIVE SUMMARY

The Hanford Site Integrated Stabilization Management Plan (SISMP) is being 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

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Westinghouse Hanford Company
Spent Nuclear Fuel Project
Accelerated Path Forward Schedule

MARG

Early Bar
Progress Bar

Project Start 01OCT92
Project Finish 01JUL03
Date Date 15APR95
Plot Date 09AUG95

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Westinghouse Hanford Company
Spent Nuclear Fuel Project
Accelerated Path Forward Schedule

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Project Start 01OCT92
 Project Finish 01JUL03
 Data Date 15APR95
 Plot Date 09AUG95

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Westinghouse Hanford Company
 Spent Nuclear Fuel Project
 Accelerated Path Forward Schedule

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Project Start 01OCT92
 Project Finish 01JUL03
 Data Date 15APR95
 Plot Date 09AUG95

Early Bar
 Progress Bar

MARG

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Westinghouse Hanford Company
 Spent Nuclear Fuel Project
 Accelerated Path Forward Schedule

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Spent Nuclear Fuel Project
Accelerated Path Forward Schedule

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Project Start 01OCT92
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 Plot Date 09AUG95

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 Spent Nuclear Fuel Project
 Accelerated Path Forward Schedule

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Project Start 01OCT92
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 Plot Date 09AUG95

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Westinghouse Hanford Company
 Spent Nuclear Fuel Project
 Accelerated Path Forward Schedule

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Activity ID	Activity description	Early Start	Early finish	FY95	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
PAXA103115	M/S Turnover 400 Area ISA to ER Program	15APR95	28JUN02											
PFP 1.4.1.09.07														
RAWA101	PREPARE PFP FUEL ALTERNATIVES STUDY	02OCT95*	30SEP96											
RAWA1011	MAINTAIN TECH INTERFACE with PFP FUEL	01OCT96	30SEP99											
RAWA3010	MANAGE PFP FUEL REPACKAGING	01OCT99	31JAN02											
RAWA3013	ACQUIRE TRIGA CASKS & STORAGE VAULTS	02OCT00*	28SEP01											
RAWA3014	PREP PFP FUEL PACKAGING COMPLIANCE/READINESS	02OCT00	31OCT01											
RAWA3020	MOVE PFP FUEL to CSB or 324 HOT CELL	01NOV01	30NOV01											
RAWA3022	REPACKAGE PFP FUEL to NRF TRIGA CASK	03DEC01	28DEC01											
RAWA30231	RETURN PFP FUEL to PFP	02JAN02*	31JAN02											
RAWA30232	PREP PFP MOVE to INEL COMPL/READINESS	01OCT07*	31OCT08											
RAWA30233	MANAGE PFP FUEL MOVE to INEL	01OCT07	29MAY09											
RAWA3024	MOVE PFP FUEL TO 200A ISA	02JAN09*	30JAN09											
RAWA3026	STAGE PFP FUEL at 200A ISA	02FEB09	27FEB09											
RAWA3027	SUPPORT T-3 CASK LICENSE UPDATE - FY-00	01OCT99*	30JUN00											
RAWA3028	SUPPORT T-3 CASK LICENSE UPDATE - FY-05	01OCT04*	30SEP05											
RAWA3029	TRANSFER PFP FUEL TO INEL	02MAR09*	01JUN09											
RAX103	STORE PFP FUEL at PFP (1.4 -Resp)	02OCT95*	01DEC08											
N-REACTOR FUEL 1.4.1.09.08														
SAW1100000	...N-REACTOR / K-BASIN PROJECT SUPPORT TEAM	02JAN96*	12AUG96											
SAW1202100	Prepare PDC	22FEB96	15MAY96											
SAW1203400	Prepare SEP	22FEB96	15MAY96											
SAW1302300	Prep KW Basin NOC Air Permit	22FEB96	20MAR96											
SAW1302315	DOE Review and Approval	05APR96	02MAY96											
SAW1303205	Perform Dry Practice Run	07JUN96	20JUN96											
SAW1501005	Load N_Fuel & Decon Railcar #1	18JUL96	19JUL96											
SAW1503000	Unload / Store N_Fuel - Railcar #1	25JUL96	29JUL96											
SAW1701005	Project Close-out / Lessons Learned	13AUG96	23SEP96											

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Project Start 01OCT92
 Project Finish 01JUL03
 Data Date 15APR95
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Westinghouse Hanford Company
 Spent Nuclear Fuel Project
 Accelerated Path Forward Schedule

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APPENDIX B

PLUTONIUM-BEARING MATERIALS SCHEDULES

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Project Start 15SEP93
 Project Finish 01JUN06
 Date Date 31JUL95
 Plot Date 08AUG95

Early Bar
 Progress Bar
 Critical Activity

9418

Westinghouse Hanford Company
 PFP Cleanout & Stabilization
 SISMP

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Project Start 15SEP93
 Project Finish 01JUN06
 Data Date 31JUL95
 Plot Date 08AUG95

Early Bar
 Progress Bar
 Critical Activity

941B

Westinghouse Hanford Company
 PFP Cleanout & Stabilization
 SISMP

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Westinghouse Hanford Company
PFP Cleanup & Stabilization
SISMP

841B

Project Start 15SEP93
Project Finish 01JUN06
Date Date 31JUL95
Plot Date 08AUG95

Legend:
☐ Early Bar
☐ Progress Bar
☒ Critical Activity

Date	Revision	Checked	Approved

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Project Start 15SEP93
 Project Finish 01JUN06
 Data Date 31JUL95
 Plot Date 08AUG95

Early Bar
 Progress Bar
 Critical Activity

941B

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 PFP Cleanout & Stabilization
 SISMP

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Date	Revision	Checked	Approved

Project Start 15SEP93
 Project Finish 01JUN08
 Data Date 31JUL95
 Plot Date 08AUG95

Early Bar
 Progress Bar
 Critical Activity

941B

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 PFP Cleanout & Stabilization
 SISMP

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Activity ID	Activity Description	Early Start	Early Finish	Original duration
H10120	Procurement (Part RL-1.0.5, RL-3.2.1, RL-3.2.4)	07DEC95	02DEC96	258*
H10122	Site Prep	01OCT96*	02DEC96	45*
H10125	Installation	03DEC96	02JUN97	130*
H10128	Training	03JUN97	02SEP97	66*
H10130	Testing	03JUN97	02SEP97	66*
H10140	Operations	03SEP97	31MAY04	1,759*
PACKAGING/LOADOUT SYSTEM				
I00000	PACKAGING/LOADOUT SYSTEM	05JUL95A	30MAY02	1,802*
I10110	Consolidate Procurement/Develop IP-3.2-028	05JUL95A	01MAY97	477*
I10111	M/S IP-3.2-028 Start Eng Study Repack Line	29SEP95*		0
I10115	Installation Design	02MAY97	30SEP97	108*
I10120	Procurement	01OCT97	31DEC97	66*
I10125	Site Preparation	01OCT97	31DEC97	66*
I10130	Installation IP-3.2-029	01JAN98	31MAR98	64*
I10131	M/S IP-3.2-029 Comp Design Equip & Install		29DEC98*	0
I10135	Testing	01APR98	30APR98	22*
I10140	Operational Readiness Review IP-3.2-030	01MAY98	29MAY98	21*
I10141	M/S IP-3.2-030 Train Proced ORR Prior To Start		29SEP99*	0
I10145	M/S-IP-3.2-031 Commence Repackage Operations	29OCT99*		0
I10147	Canning Operations	01JUN98	31JAN02	959*
I10148	M/S IP-3.2-032 Complete Metal Packaging		30SEP00*	0
I10150	M/S IP-3.3-018 Complete All Oxide Packaging		30MAY02*	0
VAULT MODIFICATIONS				
J00000	VAULT MODIFICATIONS	02JUN97	15SEP00	860*
J10110	Design	02JUN97*	28NOV97	130
...PHASE 1 CONSTRUCTION/INSTALL (2736-ZB)				
J10120	...PHASE 1 (2736-ZB + 234-5Z Vault 174 or 175)	01DEC97	22JUN98	146*
J10125	Phase 1 (2736-ZB) Procurement	01DEC97	02MAR98	66
J10126	Phase 1 (2736-ZB) Construction	03MAR98	22JUN98	80

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Project Start	15SEP93	Early Bar
Project Finish	01JUN08	Progress Bar
Data Date	31JUL95	Critical Activity
Plot Date	08AUG95	

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PFP Cleanout & Stabilization
SISMP

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Project Start 15SEP93
Project Finish 01JUN06
Data Date 31JUL95
Plot Date 08AUG95

Early Bar
Progress Bar
Critical Activity

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PFP Cleanout & Stabilization
SISMP

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PLUTONIUM SOLUTIONS

Project Start 15SEP93 Project Finish 29JUN07 Data Date 15APR95 Plot Date 18APR95	Schedule dates 9419	Westinghouse Hanford Company PFP Cleanout & Stabilization Pu Solutions	Sheet 1 of 1	-----DRAFT-----																								
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Date	Revision	Checked	Approved																									
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PLUTONIUM RESIDUES & MIXED OXIDES

Project Start 15SEP93 Project Finish 29JUN07 Data Date 15APR95 Plot Date 18APR95	Schedule dates 9418	Westinghouse Hanford Company PFP Cleanout & Stabilization Pu Residues & Mixed Oxides	Sheet 1 of 1 -----DRAFT----- <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> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Revision	Checked	Approved																								
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PLUTONIUM METALS & OXIDES

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Project Finish 29JUN07			Date	Revision	Checked	Approved
Data Date 15APR95						
Plot Date 18APR95						
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APPENDIX C

PLUTONIUM-BEARING MATERIALS
PROGRAMMATIC LOGIC DIAGRAMS

TOP-LEVEL PLUTONIUM DISPOSITION LOGIC

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PLUTONIUM INVENTORY MANAGEMENT LOGIC (1.0)

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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