ENGINEERING CHANGE NOTICE

Page 1 of 3

1. ECN 634247

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedeure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. JI Forsberg, Transition Project Office, N2-13, 376-6999 6. Project Title/No./Work Order No. ADVANCED REACTORS TRANSITION FY 1997 MYWP WBS 7.3 9. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-FF-SSP-052 Rev.1	4. USQ Required? [X] Yes [] No 7. Bldg./Sys./Fac. No. N/A 10. Related ECN No(s). N/A	5. Date 9/19/96 8. Approval Designator N/A 11. Related PD No. N/A
12a. Modification Work [] Yes (fill out Blk. 12b) [X] No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete N/A Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A Design Authority/Cog. Engineer Signature & Date

13a. Description of Change
 FY 1996 ADVANCED REACTORS TRANSITION MYPP WBS 7.3 Revision 1 has been revised and reissued as FY 1997 ADVANCED REACTORS TRANSITION MYWP WBS 7.3 Revision 2.

13b. Design Baseline Document? [] Yes [X] No

14a. Justification (mark one)

Criteria Change [X]	Design Improvement []	Environmental []	Facility Deactivation []
As-Found []	Facilitate Const. []	Const. Error/Omission []	Design Error/Omission []

14b. Justification Details
 WHC-SD-FF-SSP-052 Revision 1, ECN 624670, has been updated to reflect new guidance from the Department of Energy relative to anticipated funding for the life of the project. Also, on going changes to the Resource Loaded Schedule have resulted in revised work schedules and milestones.

15. Distribution (include name, MSIN, and no. of copies)
 The distribution is shown on page 6.5-1 (6.0 Appendices) at the end of the attached FY 1997 ADVANCED REACTORS TRANSITION MYWP WBS 7.3 Revision 2.

RELEASE STAMP		27
SEP 27 1996		
DATE:	HANFORD	ID:
STA:	ENGINEER	
#22		

634247

A-7900-013-3 (05/96) GEF096

APPENDIX B

UNREVIEWED SAFETY QUESTION SCREENING FORM

REFERENCE ITEM # 634274

TITLE Issue ADVANCED REACTORS TRANSITION FY 1997 MYWP WBS 7.3 Revision 2

QUESTIONS

Does the referenced item:

- A. Make PROPOSED CHANGES to the facility or procedures which differ from conditions described in the AUTHORIZATION BASIS?

NA___ No X Yes/Maybe___

Basis: This ECN issues the annual revision of the Fiscal Year 1997 Multi-Year Work Plan. This document is an administrative document only. Each implementing action which affects the AUTHORIZATION BASIS, plant equipment, or plant operations, and therefore could possibly pose a USQ, will be individually reviewed and evaluated prior to its implementation, as required by administrative procedures.

- B. Describe an ISSUE which differs from those described events or conditions in the AUTHORIZATION BASIS? NA X No___ Yes/Maybe___

Basis: _____

- C. Describe tests or experiments which differ from those described in the AUTHORIZATION BASIS? NA X No___ Yes/Maybe___

Basis: _____

NOTE: This form is not to be used for PHYSICAL PLANT MODIFICATIONS.

QUSQE #1 Douglas A. Gantt
(print name)

Douglas A. Gantt Date 9/19/96
Signature

QUSQE #2 Stephen H. Crow
(print name)

SH Crow Date 9/19/96
Signature

ADVANCED REACTORS TRANSITION FY 1997 MULTI-YEAR WORK PLAN WBS 7.3

R. K. Hulvey, Manager, FTF Transition Project Office
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: 617874 UC: N/A
Org Code: 18300 Charge Code: B171A
B&R Code: N/A Total Pages: 167

Key Words: Advanced Reactors, WBS 7.3, Multi-Year, Work Plan, 1997

Abstract: This document describes in detail the work to be accomplished in FY 1997 and the out-years for the Advanced Reactors Transition (WBS 7.3) under the management of the Babcock & Wilcox Hanford Company. This document also includes specific milestones and funding profiles. Based upon the Fiscal Year 1997 Multi-Year Work Plan, the Department of Energy will provide authorization to perform the work described.

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Bernice Wallace
Release Approval

9/19/96
Date

Release Stamp

Approved for Public Release

FY 1997 Multi-Year Work Plan Approval Sheet

ADVANCED REACTORS TRANSITION
U.S. Department of Energy
Richland Operations Office

Assistant Manager-Contracting Officer's Representative

P. A. Knollmeyer
Date 9/26/96

for 9/25/96

J. E. Mecca
Date 9/26/96

Westinghouse Hanford Company

R. J. Bliss
Date 9/20/96

E. F. Loika
Date 9/19/96

Reviewed as FY 1997 Start Point
Fluor Daniel Hanford, Inc.

L. Olguin
Date 9/25/96

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1 TECHNICAL BASELINE

The technical baseline describes the work (functions) to be accomplished and the technical standards that govern the work. The following information is provided in this section of the Multi-Year Work Plan (MYWP): Project Mission; Project End Point Targets; Summary-Level Forecasting Data (waste type, nuclear material, facility, infrastructure needs); Drivers (key mission and regulatory); Functional Definitions; Project Life Cycle Requirements; Project Issues and Assumptions.

1.1 PROJECT MISSION

Direction was given by the Department of Energy (DOE) Headquarters (HQ) on December 15, 1993 for Advanced Reactors Transition (ART) to transition the Fast Flux Test Facility (FFTF) to a radiologically and industrially safe shutdown condition. The DOE HQ on November 30, 1995, directed that a hold be placed on the draining of the secondary heat transport system sodium for an indefinite period to allow ample time to evaluate the FFTF for an alternative mission. Further, the DOE directed that no "irreversible" actions be taken; therefore, transitioning of the FFTF has been limited to the off loading of completely spent reactor fuel. During this restricted period, the facilities and systems are being maintained in a safe and environmentally sound condition. Additionally, facilities that were associated with the Office of Nuclear Energy (NE) Programs, and are no longer required to support the Liquid Metal Reactor Program are being deactivated and transferred to the Environmental Restoration Contractor (ERC) for final disposition, as appropriate. The controlling document for all ongoing activities is the ART MYWP. The two main supporting documents are the FFTF Transition Project Plan and the ART Program Resource Loaded Schedule (RLS).

The ART program has interfaces with other Hanford programs. A significant relationship involves the storage of fueled components at the Plutonium Finishing Plant (PFP) assuming the FFTF does not receive a restart order. Also required is an evaluation by the Tank Waste Remediation System (TWRS) affecting the final disposition of the FFTF sodium. The Spent Nuclear Fuels program has also been a party to planning and implementing the spent reactor fuel storage systems in the 400 Area Interim Storage Area (ISA). At the conclusion of the fuel offload task, the ISA and stored, spent reactor fuel will be transferred to the Spent Nuclear Fuels program.

The FFTF Transition Project combines the required surveillance and maintenance (S&M) activities along with the following deactivation activities: washing all irradiated and unirradiated fueled components to remove metallic sodium, placing the washed fueled components in dry casks for interim storage, draining the sodium systems, shutting down the auxiliary systems, and storing the bulk sodium for later conversion to a form suitable for product or disposal. The FFTF Transition Project Plan identifies the technical requirements and the ART Program RLS identifies resources required and schedules to complete the deactivation activities and bring FFTF to a safe shutdown state. The ART Program RLS contains a work breakdown structure (WBS) that identifies the work in discrete packages. Until sodium draining is complete, most of the S&M activities will continue in order to maintain FFTF in a safe condition, supporting worker health and safety, environmental requirements and DOE Order compliance. These S&M activities will gradually be phased out when they are no longer required to support the Transition Project. Resources released from discontinued activities will be applied to the shutdown work wherever practical to utilize the training and expertise of FFTF personnel.

The FFTF Transition Project will comply with DOE requirements as described in the FFTF Transition Project Plan.

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These requirements address worker and public health and safety, work conduct, reporting, environmental compliance, configuration control, quality assurance, record generation and preservation, and property protection. Further, the FFTF Transition Project will comply with the requirements of the Tri-Party Agreement (TPA) that were negotiated with the Washington State Department of Ecology, the U.S. Environmental Protection Agency (EPA), and DOE. As agreed to and as required, FFTF will perform both administration and adherence assessments of its Standards/Requirements Identification Document (S/RID).

The FFTF Transition Project will be completed with a two phase turnover to the ERC. The first will consist of FFTF and its support facilities, and the second will entail the Sodium Storage Facility (SSF) and Sodium Reaction Facility (SRF). The final shutdown configuration will be suitable for a long term S&M before final decontamination and decommissioning (D&D). When the deactivation activities are complete, and the final shutdown state is achieved, FFTF will be unoccupied and locked. All equipment will be shutdown and deactivated, with the exception of maintaining an inert gas supply system and minimal lighting and ventilation required to support periodic surveillance. However, final specific criteria for turnover to the ERC are still being negotiated.

In addition to the FFTF Transition Project, the ART program is responsible for the Plutonium Recycle Test Reactor (PRTR)/309 Building S&M and deactivation/compliance (D/C) to a safe shutdown state, the safeguarding and disposition of the Test Reactor and Isotope Production, General Atomics (TRIGA) (TRIGA is a Registered Trademark of General Atomics) fuel, and the disposition of NE Legacy facilities at Hanford. S&M for the 308 Building, which is in a safe shutdown state, will be funded by the ART program, although the ERC is expected to accept ownership by the first of FY 1997.

1.2 PROJECT END POINT TARGETS

This section identifies the significant end point targets, technical objectives, and safety objectives to be achieved in accomplishing the project mission. This includes general and specific objectives, deliverables, or activities that are essential to the project mission. This information provides an overview of the activities and deliverables that are contained in the schedule section.

1.2.1 End Point Targets

Table 1.2.1-1 contains the End Point Targets that are established in the Hanford Mission Direction Document (MDD). They provide the basis for the project mission and are implemented through technical requirements contained in the Hanford Site Technical Baseline.

Table 1.2.1-1 End Point Targets

1	MDD, South 600, Interim 87x Transition the Fast Flux Test Facility to low-cost, stable deactivated condition by 4/2001 (consider 9/2000).
2	MDD, South 600, Interim 90 Complete deactivation of the Nuclear Energy Legacy facilities by 9/2001 (consider 9/99).

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1.2.2 Technical Objectives

Table 1.2.2-1 contains the Technical Objectives that achieve the end point targets. They are established in various Project specific documents and are implemented through technical requirements contained in the Hanford Site Technical Baseline.

Table 1.2.2-1 Technical Objectives

1	<p>ART</p> <ul style="list-style-type: none"> To safely disposition all hazardous and radioactive materials, and prepare facilities for a minimum cost surveillance and maintenance status. The FFTF Transition Project deactivation activities are necessary to bring the FFTF and related facilities to a safe shutdown state for turnover to the Environmental Restoration Contractor (ERC) organization. Continue implementing the FFTF Transition Project Plan in accordance with the RLS, in a cost effective manner while ensuring safety, security, and environmental compliance. Comply with the TPA milestones and target dates for the transitioning of FFTF to a shutdown state. Maintain the 308 Building in a safe condition and in compliance with DOE Orders and environmental requirements. Turnover the 308 Building to the ERC for D&D. Complete construction of the SSF on an accelerated schedule by January 30, 1997. Maintain the PRTR/309 Building in a safe condition and in compliance with DOE Orders and environmental requirements. Continue transitioning the PRTR/309 Building in accordance with the RLS in a cost effective manner while ensuring safety and environmental compliance. Continue dispositioning NE Legacy items in a regulatory compliant manner and in accordance with established priorities. Included in the NE Legacy items is the transfer of test loop piping and components to LM Manufacturing under the Cooperative Research and Development Agreement (CRADA). Maintain the Fuels and Materials Examination Facility (FMEF) in a safe standby condition.
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1.2.3 Safety Objectives

Table 1.2.3-1 contains the Safety Objectives that are established in the Hanford Mission Direction Document.

Table 1.2.3-1 Safety Objectives

1	<p>MDD, South 600, Safety Objective S28x Maintain 309 Building/PRTR in a safe condition.</p>
2	<p>MDD, South 600, Safety Objective S29 Maintain safe condition of the Fast Flux Test Facility (FFTF) prior to deactivation.</p>
3	<p>MDD, South 600, Safety Objective S3 Maintain safe condition of spent fuel at the Fast Flux Test Facility (FFTF) Interim Storage Area.</p>

1.3 SUMMARY-LEVEL FORECASTING DATA

This section contains forecast information about the project inputs and outputs during the project life cycle. The forecast information is an integral part of the technical basis for the planning, scheduling, and budgeting process.

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1.3.1 Waste Type Data (Solid Waste, Tank Waste, Liquid Effluents, Special Case Waste)

Table 1.3.1-1 contains the waste (Solid Waste, Tank Waste, Liquid Effluents, Special Case Waste) inventory and volume projection data. These data are used to track the waste through generation, transfer, receipt, storage, and disposition. The Project schedule and budget reflect the plans for disposition of waste.

Table 1.3.1-1 Waste Volume Inventory
(cubic meters)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
FY 1997														
Begin Inventory							26.6							
Received														
Generated	118.362	0.257	0.257		1.7		7.6					3748.0	4.0	
Reduced	35.0													
Transferred	83.362	0.257	0.257		1.7							3748.0	4.0	
Disposed														
End Inventory							34.2							
FY 1998														
Begin Inventory							34.2							
Received														
Generated	74.357		0.257		1.7		7.6					3756.0	4.0	
Reduced	35.0													
Transferred	39.357		0.257		1.7		34.2					3756.0	4.0	
Disposed														
End Inventory							7.6							
FY 1999														
Begin Inventory							7.6							
Received														
Generated	41.99	0.145			1.7		7.6					3744.0	6.0	
Reduced	31.0													
Transferred	10.99	0.145			1.7							3744.0	6.0	
Disposed														
End Inventory							15.2							
FY 2000														
Begin Inventory							15.2							
Received														
Generated	41.12				1.7							3750.0	4.0	
Reduced	31.0													
Transferred	10.12				1.7							3750.0	4.0	
Disposed														
End Inventory							15.2							
FY 2001														
Begin Inventory							15.2							
Received														
Generated	41.12	0.257			1.7		7.5					3737.0	4.0	
Reduced	31.0													
Transferred	10.12	0.257			1.7		22.7					3737.0	4.0	
Disposed														
End Inventory														

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1.3.2 Nuclear Materials (Special Nuclear Materials, Nuclear Fuel, Cesium capsules, Strontium capsules)

Table 1.3.2-1 contains the nuclear materials (Special Nuclear Materials, Nuclear Fuel, Cesium capsules, Strontium capsules) inventory and projection data. These data are used to track the nuclear materials through transfer, receipt, storage, and disposition. The Project schedule and budget reflect the plans for disposition of nuclear materials. Fuel received in FY 1997 will be 300 Area Light Water Reactor spent nuclear fuel. Additionally FFTF fueled components will be transferred to the Plutonium Finishing Plant (PFP) protected area.

Table 1.3.2-1 Nuclear Materials Inventory

	Pu/HfEU (Kg)	Irradiated Fuel (MTHM)	Cs Capsules (Number of capsules)	Sr Capsules (Number of capsules)	Unirradiated Uranium (MT-U)
FY 1997					
Begin Inventory	331.3	11.0			22.42
Received		2.3			
Generated					
Reduced					
Transferred	331.3	0.65			0.82
Disposed					
End Inventory	0.0	12.7			21.6
FY 1998					
Begin Inventory		12.7			21.6
Received					
Generated					
Reduced					
Transferred					
Disposed					
End Inventory		12.7			21.6
FY 1999					
Begin Inventory		12.7			21.6
Received					
Generated					
Reduced					
Transferred					
Disposed					21.6
End Inventory		12.7			0.0
FY 2000					
Begin Inventory		12.7			
Received					
Generated					
Reduced					
Transferred					
Disposed					
End Inventory		12.7			
FY 2001					
Begin Inventory		12.7			
Received					
Generated					
Reduced					
Transferred		12.7			
Disposed					
End Inventory		0.0			

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1.3.3 Facilities (Excess, Deactivated)

Table 1.3.3-1 contains the facility forecasting data (facility deactivation, decontamination and decommissioning, and closure) for facilities assigned to ART ownership. Other facilities in which ART has only a tenant presence are not included in this list. The facility data are used to track the facility through acquisition, operations and maintenance, and disposal. The Project schedule and budget reflect the plans for disposition of excess and deactivated facilities.

Table 1.3.3-1 Facility Inventory

Complex	Facility	Facility Description	Acquisition Project	M&O Project	Deactivation Project	D&D Project	Closure Project
300 Area	335	SODIUM TEST FACILITY		Advanced Reactors	Advanced Reactors		
300FS	308	FUELS DEVELOPMENT LABORATORY		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
300FS	308A	FUELS DEVELOPMENT LABORATORY		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
300FS	309	SP-100 GES TEST FACILITY		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
400 Area	427	FUELS & MATERIAL EXAMINATION FACIL		Advanced Reactors	Advanced Reactors		
400 Area	427A	ARGON/HYDROGEN MIXING BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	436	TRAINING FACILITY		Advanced Reactors	Advanced Reactors		
400 Area	437	MAINTENANCE AND STORAGE FACILITY		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
400 Area	4701A	GUARD STATION, KENTUCKY BLVD		Advanced Reactors	Advanced Reactors		
400 Area	4701C	GUARD STATION, HAYES ST.		Advanced Reactors	Advanced Reactors		
400 Area	4710	FFTF OFFICE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	4713A	RIGGERS & DRIVERS OPERATIONS FACIL		Advanced Reactors	Advanced Reactors		
400 Area	4713B	FFTF MAINTENANCE SHOP		Advanced Reactors	Advanced Reactors		
400 Area	4713C	WAREHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	4713D	INTERIM MAINTENANCE AND STORAGE FA		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
400 Area	4716	FFTF TOOL CRIB		Advanced Reactors	Advanced Reactors		
400 Area	4726	JANITORIAL STORAGE		Advanced Reactors	Advanced Reactors		
400 Area	4727	MAINTENANCE FLAMMABLE STORAGE		Advanced Reactors	Advanced Reactors		
400 Area	4732A	WAREHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	4732B	WAREHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	4732C	WAREHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	4802	CONSTRUCTION SUPPORT BUILDING		Advanced Reactors	Advanced Reactors		

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Table 1.3.3-1 Facility Inventory (Continued)

Complex	Facility	Facility Description	Acquisition Project	M&O Project	Deactivation Project	D&D Project	Closure Project
400 Area	480A	WATER PUMP HOUSE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	480B	WATER PUMP HOUSE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	480D	WATER PUMP HOUSE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	481	WATER PUMP HOUSE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	4814	SPECIAL TOOLS WAREHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	481A	WATER PUMP HOUSE BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	482A	WATER STORAGE TANK		Advanced Reactors	Advanced Reactors		
400 Area	482B	WATER STORAGE TANK		Advanced Reactors	Advanced Reactors		
400 Area	482C	WATER STORAGE TANK		Advanced Reactors	Advanced Reactors		
400 Area	4831	FLAMMABLE STORAGE		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
400 Area	483A	FMEF COOLING TOWERS		Advanced Reactors	Advanced Reactors		
400 Area	483B	WATER TREATMENT BUILDING		Advanced Reactors	Advanced Reactors		
400 Area	4842A	SWITCHGEAR 451B SUBSTATION		Advanced Reactors	Advanced Reactors		
400 Area	4842B	SWITCH WATER PUMPHOUSE		Advanced Reactors	Advanced Reactors		
400 Area	4843	ALKALI METAL STORAGE		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
400 Area	4862	FMEF ENTRY WING OFFICE		Advanced Reactors	Advanced Reactors		
FFTF	402	SODIUM STORAGE FACILITY	Advanced Reactors	Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	403	FUELS STORAGE FACILITY		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	405	FFTF REACTOR BUILDING		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	408A	MAIN HEAT DUMP, EAST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	408B	MAIN HEAT DUMP, SOUTH		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	408C	MAIN HEAT DUMP, WEST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	409A	CLOSED LOOP HEAT DUMP, EAST #1		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	409B	CLOSED LOOP HEAT DUMP, EAST #2		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	432A	ISA COVERED EQUIPMENT STORAGE		Advanced Reactors	Spent Nuclear Fuel		
FFTF	440	90-DAY COVERED STORAGE PAD		Advanced Reactors	Advanced Reactors		
FFTF	453A	TRANSFORMER STATION, EAST 2.4KV		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	453B	TRANSFORMER STATION, SOUTH 2.4KV		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration

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Table 1.3.3-1 Facility Inventory (Continued)

Complex	Facility	Facility Description	Acquisition Project	M&O Project	Deactivation Project	D&D Project	Closure Project
FFTF	453C	TRANSFORMER STATION, WEST 2.4kV		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4621E	AUXILIARY EQUIPMENT BUILDING, EAST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4621W	AUXILIARY EQUIPMENT BUILDING, WEST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4703	FFTF CONTROL BUILDING		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4717	REACTOR SERVICE BUILDING		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4718	INTERIM STORAGE AREA		Advanced Reactors	Spent Nuclear Fuel		
FFTF	4721	FFTF EMERGENCY GENERATOR BUILDING		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	4734A	ARGON/NITROGEN PAD		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	483	COOLING TOWERS		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	484	ICCW EQUIPMENT BUILDING		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	491E	HTS SERVICE BUILDING, EAST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	491S	HTS SERVICE BUILDING, SOUTH		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration
FFTF	491W	HTS SERVICE BUILDING, WEST		Advanced Reactors	Advanced Reactors	Environmental Restoration	Environmental Restoration

1.3.4 Infrastructure (Power, Steam, Water, Roads, Railroad, Sanitary Waste)

This section contains the forecasting data for infrastructure support. These data are used to ensure the required infrastructure is available when it is needed. Table 1.3.4-1 provides the nominal, best estimate of infrastructure needs. Table 1.3.4-2 provides an estimate of the maximum probable need. The Project schedule and budget reflect the services (infrastructure) that are necessary to achieve the project mission.

Table 1.3.4-1 Infrastructure Requirements - Average Demand

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Allocated Land											
Analytical Laboratory Services	100.0	100.0	100.0	100.0	100.0						SAMPLES/YR
Bioassay and Dosimetry Services											
Biological Laboratory Services											
Building Maintenance											
Clean Laundry	6500.0	6500.0	6500.0	6500.0	6500.0	250.0	250.0				LBS/YR
Custodial Services	100000.0	100000.0	100000.0	100000.0	100000.0	5000.0	5000.0				SQ. FT.
Data (HLAN) Transmission	256.0	256.0	256.0	256.0	256.0	10.0	10.0				NO. OF PCs
Development Laboratory Services											
Electricity	63365.0	48921.0	48211.0	47143.0	31065.0	7500.0	7500.0	10.0	10.0	10.0	MW-HR/YR
Energy Management Services											
Environmental Molecular Science Lab Services											
Fab Shop Services											
Guaranteed Ride Home	25.0	25.0	25.0	25.0	25.0						PASSENGERS/YR

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Table 1.3.4-1 Infrastructure Requirements - Average Demand (Continued)

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Hanford Road Sys. Heavy Traffic											
Heavy Equipment											
Heavy Trucks											
In-Field Laboratory Services											
Industrial Hygiene Services											
Lifting (Cranes)	20.0	20.0	20.0	20.0	20.0						CRANE DAYS/YR
Non-rad Standards (Calibrations)	900.0	900.0	900.0	900.0	900.0						CALIBRATIONS/YR
Office Space (Leased)											
Office Space (Infrastructure Owned)	1964.0	1964.0									SQ. FT.
Office Space (Program Owned)	28472.0	28472.0	28472.0	28472.0	28472.0						SQ. FT.
Pager Service											
Potable Water											
Radioactive Standards (Calibrations)	216.0	216.0	216.0	216.0	216.0						CALIBRATIONS/YR
Rail Transportation											
Raw Water											
Sedans/Light Trucks	10.0	10.0	10.0	10.0	10.0	2.0	2.0				NO. OF VEHICLES
Steam											
Storage Space (Infrastructure Owned)	1000.0	1000.0	1000.0	1000.0	1000.0						SQ. FT.
Storage Space (Leased)											
Storage Space (Program Owned)	77510.0	77510.0	77510.0	77510.0	77510.0						SQ. FT.
Taxi Service											
Video Communication											
Voice (Telephone) Communication	263.0	263.0	237.0	237.0	237.0	26.0	28.0	11.0	11.0	11.0	NO. OF PHONES

Table 1.3.4-2 Infrastructure Requirements - Peak Demand

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Allocated Land											
Analytical Laboratory Services	100.0	100.0	100.0	100.0	100.0						SAMPLES/YR
Bioassay and Dosimetry Services											
Biological Laboratory Services											
Building Maintenance											
Clean Laundry	6500.0	6500.0	6500.0	6500.0	6500.0	250.0	250.0				LBS/YR
Custodial Services	100000.0	100000.0	100000.0	100000.0	100000.0	5000.0	5000.0				SQ. FT.
Data (HLAN) Transmission	256.0	256.0	256.0	256.0	256.0	10.0	10.0				NO. OF PCs
Development Laboratory Services											
Electricity	96798.0	96798.0	96798.0	96798.0	69642.0	10000.0	10000.0	15.0	15.0	15.0	MW-HR/YR
Energy Management Services											
Environmental Molecular Science Lab Services											
Fab Shop Services											
Guaranteed Ride Home	36.0	36.0	36.0	36.0	36.0						PASSENGERS/YR
Hanford Road Sys. Heavy Traffic											
Heavy Equipment											
Heavy Trucks											
In-Field Laboratory Services											
Industrial Hygiene Services											
Lifting (Cranes)	20.0	20.0	20.0	20.0	20.0						CRANE DAYS/YR
Non-rad Standards (Calibrations)	900.0	900.0	900.0	900.0	900.0						CALIBRATIONS/YR
Office Space (Leased)											
Office Space (Infrastructure Owned)	1964.0	1964.0									SQ. FT.
Office Space (Program Owned)	28472.0	28472.0	28472.0	28472.0	28472.0						SQ. FT.
Pager Service											
Potable Water											
Radioactive Standards (Calibrations)	216.0	216.0	216.0	216.0	216.0						CALIBRATIONS/YR
Rail Transportation											
Raw Water											
Sedans/Light Trucks	10.0	10.0	10.0	10.0	10.0	2.0	2.0				NO. OF VEHICLES
Steam											

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Table 1.3.4-2 Infrastructure Requirements - Peak Demand (Continued)

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Storage Space (Infrastructure Owned)	1000.0	1000.0	1000.0	1000.0	1000.0						SQ. FT.
Storage Space (Leased)											
Storage Space (Program Owned)	77510.0	77510.0	77510.0	77510.0	77510.0						SQ. FT.
Taxi Service											
Video Communication											
Voice (Telephone) Communication	263.0	263.0	237.0	237.0	237.0	26.0	26.0	11.0	11.0	11.0	NO. OF PHONES

1.4 DRIVERS

This section identifies the documents that are sources of project requirements, including Key and Regulatory Drivers.

1.4.1 Key Drivers

Table 1.4.1-1 lists the source documents that tend to drive the project mission (e.g. Mission Direction Document, Tri-Party Agreement).

Table 1.4.1-1 Key Drivers

Name	Title
42 USC 6901, et seq.	Resource Conservation and Recovery Act of 1976 (RCRA)
96-FFTF-004	Deferral of Fast Flux Test Facility (FFTF) Transition Activities
96-TPD-064	FY 1997 Multi-Year Program Plan (MYPP) Program Guidance Assumptions
DOE Order 5400.4	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Requirements
DOE Order 5440.1E	National Environmental Policy Act Compliance Program
DOE/RL-96-14	Updated Draft Mission Direction Document, June 1996
OTD:OAF	Fast Flux Test Facility (FFTF) Shutdown
Tri-Party Agreement	Hanford Federal Facility Agreement and Consent Order: 89-10, Rev. 1

1.4.2 Other Drivers

Table 1.4.2-1 contains the source documents that must be followed as the project mission is accomplished.

Table 1.4.2-2 Other Drivers

Name	Title
DOE Order 4330.4B	Maintenance Management Program
DOE Order 4700.1	Project Management System
DOE Order 5480.19	Conduct of Operations Requirements for DOE Facilities
DOE Order 5633.3B	Control and Accountability of Nuclear Materials, 2/12/93
DOE Order 5660.1B	Management of Nuclear Materials
DOE Order 5820.2A	Radioactive Waste Management

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Table 1.4.2-2 Other Drivers (Continued)

Name	Title
DOE/EA-0987	Disposition of Alkali Metal Test Loops
DOE/EA-0993	Shutdown of the Fast Flux Test Facility
WA780008967	Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit
WHC-SD-FF-MP-001 Rev. 1	Hanford Site Sodium Management Plan
WHC-MP-SRID-006	Westinghouse Hanford Company Standard Requirements Identification Document for FFTF
WHC-SD-SP-SSP-001 Rev. 1	309 Building Transition Plan
WHC-SD-SSP-004 Rev. 2	Fast Flux Test Facility Transition Project Plan

1.5 FUNCTIONAL DEFINITIONS

This section contains the Hanford Site Technical Baseline functions that are assigned to the project. It describes the project work in terms consistent with the Hanford Site Technical Baseline. The 'number' column in this section refers to the unique function number for the listed function as contained in the site technical baseline database maintained by Site Systems Engineering.

1.5.1 Dispose of FFTF

ART performs the first phase of the disposal process which is defined as facility deactivation. The second phase, long term surveillance and maintenance, and the third phase, further decontamination and decommissioning are performed by EM-40.

Table 1.5.1-1 Dispose of FFTF Functions

Number	Name / Description
4.1.1.4	Deactivate FFTF Deactivates contaminated buildings, utilities, and services; stabilizes and safely stores or removes radioactive and hazardous materials; prepares turnover packages and transitions useable resources associated with the FFTF complex.
4.1.1.4.1	Maintain FFTF Safety, Security, & Compliance Envelope Maintains the facility structure, qualified staff, safe, secure, and compliant equipment, documentation and provides assessment of safety, security, and compliance states. Provides all necessary resources for safe, secure, and compliant operation in accordance with governing safety codes and regulations.
4.1.1.4.2	Determine FFTF Deactivation Plan, Negotiate Turnover Endpoint, and Provide System Shutdown Plans Assess the current state of FFTF, identify and/or negotiate material and equipment disposition requirements, develop plans to deactivate facilities, and negotiate and administratively maintain the desired facility turnover endpoint specifications. Establish archive of FFTF information per spec for turnover to D&D.
4.1.1.4.3	Reconfigure FFTF For Minimum Surveillance (and Maintenance) Deactivates nonessential systems, system components, and physical structures, drains sodium, and takes other actions as required to minimize environmental, public, and personnel hazards. Takes these actions consistent with minimizing continuing FFTF costs.
4.1.1.4.4	Disposition FFTF Fuel For irradiated fuel (includes DNM/gas leakers), unload from reactor, transfer to IEM cell, wash, dry, package, store and transfer to interim storage. For unirradiated fuel assemblies, transfer, wash, dry, package, and ship to Plutonium Finishing Plant for interim storage. Also includes radioactive IC, IIC, IID & IVE fueled components. For sodium bonded test assemblies, wash, dry, package, and transfer to interim storage.

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1.5.2 Dispose of Nuclear Energy Legacies

ART performs the first phase of the disposal process which is defined as facility deactivation. The second phase, long term surveillance and maintenance, and the third phase, further decontamination and decommissioning are performed by EM-40.

Table 1.5.2-1 Dispose of Nuclear Energy Legacies Functions

Number	Name / Description
4.1.1.13	<u>Deactivate Nuclear Energy Legacies</u> Remove and dispose hazardous materials; excess or dispose of test loops piping and components; remove hazardous materials by cleaning, to the maximum extent practical, any components which must remain in place. Maintains NE Legacy facilities in a safe and compliant condition. NE Legacy facilities include FMEF, 308 Building, 335/335A Building, 337 Highbay, 3718-M Building, 3718-F Building, and 4843 Building.
4.1.1.13.1	<u>Disposition alkali metals</u> Remove non-radioactive sodium and sodium-potassium alloy (NaK) from NE Legacies test loops. Ship to off site users.
4.1.1.13.2	<u>Disposition Test Loops</u> Dismantle sodium test loops in the Hanford 309 Area and in 221T building in the 200W Area. Dispose of piping and components. Clean any large components being left in place.
4.1.1.13.3	<u>Cleanup former Treatment, Storage, Disposal (TSD) sites</u> Complete cleanup and remediation activities in designated TSD sites as required by the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit. Applicable TSDs are building 4843, Alkali Metal Storage Facility, and 3718-F, Alkali Metal Treatment and Storage Facility.

1.5.3 Dispose of 309 Building

ART performs the first phase of the disposal process which is defined as facility deactivation. The second phase, long term surveillance and maintenance, and the third phase, further decontamination and decommissioning are performed by EM-40.

Table 1.5.3-1 Dispose of 309 Building Functions

Number	Name / Description
4.1.2.2	<u>Deactivate 309 Building (PR)</u> Deactivates the 309 facility, utilities, and services; stabilizes and safely stores or removes radioactive and hazardous materials; prepares turnover packages and transitions useable resources.
4.1.2.2.1	<u>Maintain 309 Building (PR) Safety, Security & Compliance Envelope</u> Maintains the 309 Building (PR) structure, qualified staff, safe and compliant equipment, documentation and provides assessment of safety and compliance states. Provides for safe and compliant operation in accordance with governing safety codes and regulations.
4.1.2.2.2	<u>Develop 309 Building (PR) Deactivation Plan, Negotiate Turnover Endpoint, and Provide Facility Specific Engineering</u> Assesses the current state of the 309 Building (PR), identify and/or negotiate equipment disposition requirements, develop plans to deactivate facility, and negotiate and administratively maintain the desired facility turnover endpoint specifications. Establish and maintain a long-term archive of facility information. Provides necessary facility specific engineering.
4.1.2.2.3	<u>Stabilize & Reconfigure 309 Building (PR) For Minimum Surveillance and Maintenance</u> Deactivates nonessential systems, system components, and physical structures, and takes other actions as required to minimize environmental, public, and personnel hazards. Takes these actions consistent with minimizing continuing facility costs.

1.6 PROJECT LIFE-CYCLE REQUIREMENTS

Project life-cycle requirements can be established for each phase of the life-cycle at each facility. Since the ART projects are being transitioned to shutdown, only the deactivation phase and its associated project management requirements have been developed and presented in this section.

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1.6.1 Dispose of FFTF

1.6.1.1 Deactivate FFTF

Table 1.6.1.1-1 Deactivate FFTF Requirements

1	TRIGA reactor fuel Maintain the TRIGA reactor fuel during ownership of the 400 Area ISA.
2	MDD, South 600, Safety Objective S29 Maintain safe condition of the Fast Flux Test Facility (FFTF) prior to deactivation.
3	MDD, South 600, Safety Objective S3 Maintain safe condition of spent fuel at the Fast Flux Test Facility (FFTF) Interim Storage Area.
4	MDD, South 600, Interim 87x Transition the Fast Flux Test Facility to low-cost, stable deactivated condition by 4/2001 (consider 9/2000).
5	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (1D) Fueled components from the Interim Decay Storage (IDS) and Fuel Storage Facility (FSF) shall be removed and then washed (sodium removal) in the Interim Examination and Maintenance Cell (IEMC).
6	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (2D) The washed fueled components (up to seven) shall be inserted in Core Component Containers (CCC) and then the CCCs shall be placed in Interim Storage Casks (ISC) and, depending on safeguards category, shipped to the PFP Protected Area or the 400 Area Interim Storage Area (ISA).
7	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (5D) Sodium shall be drained from the FFTF into the SSF.
8	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (6D) NaK shall be mixed with FFTF sodium prior to transferring the sodium to the SSF.
9	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (7D) The sodium(Na) and NaK residuals shall be minimized.
10	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (8D) The FFTF auxiliary systems shall be deactivated.
11	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (9D) The FFTF and the Maintenance and Storage Facility (MASF) shall be maintained in a safe condition.
12	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (11D) All activities shall be conducted in accordance with applicable DOE Orders, as well as local, State, and Federal laws.
13	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (12D) The FFTF Transition shall be performed in a cost effective manner while ensuring safety, security, and environmental compliance.
14	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (13D) Transitioning of FFTF to a shutdown state shall be in accordance with the requirements of the TPA.

1.6.2 Dispose of Nuclear Energy Legacies

1.6.2.1 Deactivate Nuclear Energy Legacies

Table 1.6.2.1-1 Deactivate Nuclear Energy Legacies Requirements

1	NE Legacy Safety Maintain NE Legacy Facilities in a safe and compliant condition.
2	MDD, South 600, Interim 90 Complete deactivation of the Nuclear Energy Legacy facilities by 9/2001 (consider 9/99).
3	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (10D) The NE Legacy sodium and facilities shall be dispositioned.
4	MYWP - FFTF/Legacy Facilities/Special Initiatives Sub-Project (14D) NE Legacy items shall be dispositioned in a regulatory compliant manner and in accordance with established priorities.

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1.6.3 Dispose of 309 Building

1.6.3.1 Deactivate 309 Building (PR)

Table 1.6.3.1-1 Deactivate 309 Building (PR) Requirements

1	<u>MDD, South 600, Safety Objective S28x</u> Maintain 309 Building/PRTR in a safe condition.
2	<u>MYWP - FFTR/Legacy Facilities/Special Initiatives Sub-Project (15D)</u> The 309 Building shall be maintained, during which time surface contamination shall be removed or stabilized to allow shutdown of active support systems. All excess materials, components, and any radiological or hazardous waste shall be removed from the facility and dispositioned.
3	<u>MYWP - FFTR/Legacy Facilities/Special Initiatives Sub-Project (16D)</u> The 309 Building shall be turned over to the Environmental Restoration project.
4	<u>MYWP - FFTR/Legacy Facilities/Special Initiatives Sub-Project (17D)</u> The PRTR/309 Building shall be maintained in a safe condition and in compliance with DOE Orders and environmental requirements.
5	<u>MYWP - FFTR/Legacy Facilities/Special Initiatives Sub-Project (18D)</u> Transitioning the PRTR/309 Building shall be conducted in a cost effective manner while ensuring safety and environmental compliance.

1.7 PROJECT ISSUES AND ASSUMPTIONS

Table 1.7-1 contains the issues that affect the project. These include project specific issues, as well as the site-level issues that have been assigned to the project for resolution. It also contains the assumptions that are used as a basis for the development of project plans until the issues are formally resolved with records of decision. The "Champion" column determines if the Project has lead responsibility or is an affected participant. If the champion belongs to the Project, the Project has the lead. If not, the Project is an affected participant. Project plans include appropriate activities and resources for resolving these issues.

Table 1.7-1 Issues That Affect The Project

ISSUE	INTERIM DECISION	CHAMPION
1 <u>ART MDD Activity Dates</u> The ART baseline dates approved by the DOE-RL Assistant Manager for Facility Transition are not consistent with those shown in the June 1996 edition of the Draft Hanford Mission Direction Document.	ART baseline dates approved by the DOE-RL Assistant Manager for Facility Transition will be used until the Hanford Mission Direction Document can be updated.	Piper
2 <u>FFTF Sodium Disposition</u> The final disposition for the FFTF sodium is still to be determined. The two options are to react it to a non-hazardous, low-level radioactive waste, or to react it to form radioactive sodium hydroxide liquid, which might be used in treating the high-level tank wastes. The appropriateness of using the radioactive sodium hydroxide liquid in treating the high-level tank wastes will be determined by March 1998, when the Tank Wastes Remediation (TWR) project completes TPA milestone M-50-03.	The Sodium Reaction Facility definitive design and construction will begin in FY 1999 to produce a disposable, non-hazardous, low-level radioactive sodium waste, assumed to be sodium sulfate. If the sodium hydroxide product is required for treating the high-level tank wastes, the schedule for the reaction facility construction and operation will likely be delayed to coincide with the required delivery date for the sodium hydroxide.	Mecca
3 <u>Sodium Disposition</u> Potential use as a neutralization agent for tank waste is projected to be beyond 2015.	Interim store in the 400 Area and Central Waste Complex (CWC) until TWRS finalizes its Tank Waste treatment processes and identifies its Na needs.	Mecca Bliss

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1.7.1 Project Issues and Assumed Resolutions	
Issue	Assumed Resolution
The FFTF Transition Project Plan and the Resource Loaded Schedule show the transition activity extending beyond the five-year goal established by DOE.	The final system shutdown activities are expected to be streamlined when the final end-point criteria have been negotiated. This will accelerate the final transition date.
The DOE HQ on November 30, 1995, directed that a hold be placed on the draining of the secondary heat transport system sodium for an indefinite period. Further, the DOE directed that no "irreversible" actions be taken; therefore, transitioning of the FFTF has been limited to the off loading of completely spent reactor fuel.	This MYWP is based on an RL assumption that a decision to resume the sodium drain process will be made by January 1, 1997.
Shipping the sodium bonded metal-fuel assemblies to Idaho National Engineering Laboratory (INEL) will be delayed beyond the end point of the FFTF transition. Due to a consent order, dated October 17, 1995, INEL can not accept the assemblies until after December 31, 2000.	The sodium bonded metal-fuel assemblies will be placed in interim dry storage and turned over to the Spent Nuclear Fuels (SNF) project. When INEL is able to accept these assemblies, SNF will repack them in licensed shipping containers for shipment to INEL.
The G-3 turbine generator fuel oil tank (T-303) system will require enhancements per the Washington State Administrative Code, Section 173-360, if it remains in service beyond December 22, 1998.	On site emergency power generation capability will not be required beyond December 22, 1998. Therefore, the tank will be taken out of service and closed.
Funding must be provided at the requested levels in order to support the schedule provided in this MYWP.	Planning assumes the full funding identified in section 4.0
Associated with the transition to the new Project Hanford Management Contract, individuals will be reassigned or accept early retirement.	Planning assumes that personnel will be available and qualified to replace losses.

1.7.1-1

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2.1 Work Breakdown Structure Hierarchy

2.1-1

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2.2 WBS Dictionary		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1	5 WBS ELEMENT TITLE FFTF (ADS 6640)	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>This WBS defines the major elements and project baseline for the deactivation activities necessary to transition FFTF to a safe shutdown state. The transition activities include dry cask storage of the irradiated and unirradiated fueled components, sodium and NaK draining, accommodation of sodium and NaK residuals, and shutdown of the auxiliary systems. When the transition to shutdown is completed, FFTF will be in a stabilized and safe condition for turnover to an ERC for long term interim surveillance preparatory to a final D&D phase.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.2	5 WBS ELEMENT TITLE FFTF Shutdown Construction (ADS 6642)	
6 INDEX LINE NO. 0	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT This WBS provides for the construction of SSF that will provide an interim storage location for the FFTF sodium and NaK. It also provides for the construction of the SRF that will convert the FFTF sodium to a suitable waste form.		

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2.2 WBS Dictionary (continued)

WORK BREAKDOWN STRUCTURE DICTIONARY

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3		5 WBS ELEMENT TITLE Nuclear Energy Legacies (ADS 6641)	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0		8 DATE
9 APPROVED CHANGES			
10 SYSTEM DESIGN DESCRIPTION N/A		11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION			
A. COST CONTENT			
Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.			
B. TECHNICAL CONTENT/WORK STATEMENT			
This WBS describes four main areas: 1) Building 308; 2) Fuels and Materials Examination Facility (FMEF); 3) NE Resource Conservation and Recovery Act (RCRA) Closures; and 4) NE Legacies.			
The Building 308 work scope is limited to surveillance and maintenance of the facility.			
The FMEF work scope is limited to surveillance and maintenance of the facility. The FMEF is a seismically qualified "clean" facility that is being held in standby, waiting a possible mission. Revenue to partially offset the standby expenses is generated by leasing office and floor space to other Hanford Site organizations.			
NE RCRA Closures provides for the environmental management of NE hazardous waste facilities. This sub-activity addresses the base program responsibilities associated with these NE facilities that currently manage, or have managed, hazardous materials. The facilities under RCRA closure plans are: 1) the 105-DR Large Sodium Fire Facility (LSFF); 2) the 4843 Alkali Metal Storage Facility (AMSF); and 3) the 3718-F Alkali Metal Treatment and Storage Facility.			
NE Legacies involves the strategy development and implementation program for ultimate disposition of DOE NE non-reactor facilities and associated materials/equipment. Specific tasks include, provide coordination/oversight for program implementation, evaluate disposition of miscellaneous facility-specific items, prioritize and perform facility disposition engineering studies and the NEPA documentation, and conduct disposition of facilities in accordance with CRADA, including the sodium inventory, where applicable. This activity also provides funding for legacy occupancy landlord services for the Building 337 Highbay basement and buildings 335 and 3718M.			

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.4	5 WBS ELEMENT TITLE PRTR/309 Building (ADS 6643)	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT This WBS describes the major elements and project baseline to characterize and stabilize the PRTR/309 Building for long-term layup while awaiting the D&D phase. The PRTR/309 Building work scope includes the surveillance and operation of the facility subject to DOE Orders and federal codes for radiological facilities. The deactivation and compliance activities prepare the building for acceptance by EM-40 for long-term surveillance and maintenance pending decontamination and decommissioning. Activities will dispose of equipment, components, and waste products associated with the PRTR reactor systems, including all nonessential systems (e.g., heating ventilating and air conditioning (HVAC), electrical distribution, monitoring, and fluid), which will be shutdown and drained or de-energized. The process, laboratory, and office areas of the facility will be secured to convert the facility to a minimum safe S&W condition for turnover to an ERC for long-term interim surveillance preparatory to a final D&D phase.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.7.01	5 WBS ELEMENT TITLE Transition Project Office	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Provide planning and administration of FFTF transition to shutdown; communication with the DOE; and other special activities, as needed. Manage reserved funds required to pay for accomplishment of Performance Based Fee actions. Plan, direct, and monitor FFTF transition to shutdown and turnover to ERC. Perform program integration, including development and maintenance of the work breakdown structure, logic diagrams, and upper tier schedules to establish baselines for the preparation of resource loaded schedules and cost estimates. Make assignments to performing organizations. Maintain Transition Project files. Administer FSAR documentation and coordinate resolution of related issues. Administer the FFTF End Point Program. Provide business accounting and performance measurement functions for the execution year. Provide business and financial support and out-year program planning including, coordination of responses to review bodies appraising the safety of facility operations, review of safety related rule making actions for applicability to FFTF and their implementation, coordination and preparation of ADSs for the MYWP, preparation of required Hanford Site Management System documents, and respond to numerous DOE requests (e.g., budget exercises, white papers, special schedules, etc.).		

ADVANCED REACTORS TRANSITION
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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.01	5 WBS ELEMENT TITLE S&M/CENRTC	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER 35-EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Internal Charges, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>S&M Capital Equipment Not Related To Construction (CENRTC) activities maintain a safe and environmentally compliant reactor plant and support facilities, a modest budget of CENRTC funds that must be available to the project to cover equipment emergencies. Also, CENRTC funds are needed for the purchase of new equipment to assure compliance with new regulations and requirements.</p>		

ADVANCED REACTORS TRANSITION

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.02	5 WBS ELEMENT TITLE S&M/Systems Maintenance	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Provide activities to perform surveillance and maintenance for specific systems at FFTF, FSF, MASF, and 400 Area support buildings. Activities include: provide qualified personnel to prepare, approve, and perform corrective and preventive maintenance activities; provide Person-in-Charge (PIC) supervision of field work; provide material requisition, receipt, storage, and work site issuance; manage the Measurement & Test Equipment (M&TE), tools, and spare parts programs; provide landscaping, general housekeeping services, and transportation support for the movement of equipment and materials; provide operating procedure processing and validation. Personnel assigned to activities in this cost account have expertise in areas such as maintenance, engineering, quality assurance, safety, and health physics.</p>		

ADVANCED REACTORS TRANSITION

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WBS 7.3

2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.03	5 WBS ELEMENT TITLE S&M/Surveillance and Support Functions	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Activities to support the general surveillance and maintenance of FFTF, MASF, and related 400 Area support buildings. Activities include: provide Safety, Quality Assurance, and Health Physics surveillances, assessments, and oversight; provide training and qualification program for operations, maintenance, and other project staff; provide 400 Area building administration, FFTF personnel security program administration, Management Overview Program administration, and FFTF tour coordination; provide warehousing services for FFTF spare parts and equipment; provide administration of configuration management systems. Administer the FFTF S/RID, Emergency Preparedness, Criticality Safety, and Technical Specification surveillance programs. Conduct periodic Facility Evaluation Board assessments. Apply the re-engineering process during FY97. Perform tritium production mission evaluation and planning activities.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.07	5 WBS ELEMENT TITLE S&M/Operations	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION		
<p>A. COST CONTENT</p> <p>Labor and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Operate the FFTF, MASF, and FSF systems in a safe, efficient, and environmentally compliant manner; provide review and approval support for surveillance and maintenance work packages, design changes, and review committees; monitor, control, and record equipment operations; investigate and respond to system abnormalities; attend training classes and maintain accreditation; maintain control of maintenance and ensure personnel protection through lockouts and tagouts; and conduct post maintenance tests to ensure equipment is restored to design configurations.</p>		

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.08	5 WBS ELEMENT TITLE S&M/Consumables	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management. B. TECHNICAL CONTENT/WORK STATEMENT S&M Consumables activities include: maintenance of the Bonneville Power Administration (BPA) supplied electrical service; adequate plant fuel oil supply; inert gas inventories at a level that ensures FFTF is maintained in a safe condition to support FFTF D/C activities; maintain an adequate level of consumables to support FFTF Operations, including safety equipment, special tools and equipment; and provide for FFTF Operations offsite training.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.00	5 WBS ELEMENT TITLE S&M/Safeguards and Security	
6 INDEX LINE NO. 0	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Safeguards and Security provides: an effective patrol force, physical security and associated equipment, safeguards oversight and services, and annual security assessments.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.0E	5 WBS ELEMENT TITLE S&M/300 Area Fuel Oil Inventory Change	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Materials/Equipment and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Inventory Change - 300 Area Fuel Oil provides funding for the net inventory change in the 1691 (Inventory) and 1711 (Reserve) General Ledger sub-accounts for bunker fuel oil for the 300 Area Power House.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.0F	5 WBS ELEMENT TITLE S&M/Other Materials Inventory Change	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Materials/Equipment and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Inventory - Other Materials provides funding for the net inventory change in the 1681 (Inventory) General Ledger sub-accounts for other special materials, primarily gold, silver, and platinum used in the 300 Area Laboratories.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.0G	5 WBS ELEMENT TITLE S&M/Various Inventory Change	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Materials/Equipment and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Inventory - Various provides funding for the net inventory change in the 1691 (Inventory) and 1711 (Reserve) General Ledger spare parts sub-accounts at MASF, FFTF, Security, Computers, and the 300 Area.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.0J	5 WBS ELEMENT TITLE S&M/Inventory - Spares	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Materials/Equipment and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Inventory-Spares - Withdrawals>Returns provides funding for the net inventory change in the 1691 (Inventory) and 1711 (Reserve) General Ledger spare parts sub-accounts at MASF, FFTF, Security, and Computers.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.0L	5 WBS ELEMENT TITLE S&M/Regulatory Compliance	
6 INDEX LINE NO. 0	7 REVISION NO AND AUTHORIZATION	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M regulatory compliance activities include: Conduct FFTF, MASF, and FSF operations in a manner to ensure compliance with applicable environmental regulations and DOE Orders; maintain the environmental specifications program in support of base operations; conduct waste handling and disposition activities in support of base operations; support regulatory sampling, surveillance, and reporting requirements; provide review and approval support for S&M work packages, design changes, and review committees; support hazardous material programs, administer the "Hazards Communications" program; maintain satellite waste collection areas for maintenance waste streams.		

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WBS 7.3

2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.03	5 WBS ELEMENT TITLE D/C - Fuel Offload	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Offload all fueled components from within FFTF and place them in interim storage. Activities in these areas include: Oversee the procurement and testing of ISCs and CCCs; prepare and approve detailed refueling plans and IEMC work plans; perform remaining criticality evaluations; conduct operational readiness assessments; operate and maintain the refueling equipment; provide engineering, maintenance, and operations support for fueled component handling, washing, packaging, and shipping operations; assemble FFTF fuel assembly data packages; preserve FFTF nuclear equipment performance data and documentation.		

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WBS 7.3

2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.04	5 WBS ELEMENT TITLE D/C - Na/NaK Removal and System Shutdown	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Remove Na and NaK liquid metal from the FFTF systems and vessels. Activities include the following: systems engineering, work instruction and procedure development, and field performance for drain activities and shutdown of sodium related systems; evaluate and determine optimum Na/NaK removal process; perform acceptance testing for the sodium storage facility. Sodium will not be placed in the SSF until directed by the DOE to drain the FFTF liquid metal system.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.05	5 WBS ELEMENT TITLE D/C - Support System Shutdown	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.		
B. TECHNICAL CONTENT/WORK STATEMENT Shutdown affected FFTF systems and equipment following the completion of key transition activities such as secondary sodium drain, primary sodium drain, and FSF vessel and IDS vessel sodium drain. Provide the following activities: systems engineering, work instruction and procedure development, field performance, and disposition of resources and hazardous materials such as chemicals, transformer cooling fluids, and fuel oil.		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.06	5 WBS ELEMENT TITLE D/C - Sodium Reaction Facility Engineering	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT The Sodium Reaction Facility (SRF) will be used to react sodium that will be stored as a solid in the Sodium Storage Facility (SSF). The final design of the SRF will depend upon the outcome of TWRS Milestone M-50-03 (March 31, 1998), which will determine if the SRF will produce a solid waste for burial at Hanford, or produce sodium hydroxide for use in the Hanford TWRS. The SRF will be located adjacent the FFTF plant.</p> <p>The work activities include the functional design criteria and conceptual design report, engineering support during the design, construction and turnover of the SRF to the facility owner for operational testing and beneficial use.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.2.9.03	5 WBS ELEMENT TITLE Sodium Storage Facility Construction Project (FY97)	
6 INDEX LINE NO. 0	7 REVISION NO AND AUTHORIZATION	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>This expense funded project provides for the construction of the Sodium Storage Facility (SSF) that is located adjacent to the FFTF plant. The SSF will receive and store sodium transferred from the FFTF heat transport systems and reactor fuel storage vessels. The sodium will contain trace quantities of potassium due to transfer of NaK from various cooling loops.</p> <p>The work activities include construction, construction management, and satisfying the safety, quality assurance and environmental requirements for long term storage of solidified sodium.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.2.9.04	5 WBS ELEMENT TITLE Sodium Reaction Facility Construction Project (FY99)	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>This expense funded project provides for the construction of the Sodium Reaction Facility (SRF). The SRF will be located along side of the Sodium Storage Facility which is adjacent to the FFTF plant.</p> <p>The work activities include definitive design and construction, construction management, and satisfying the safety, quality assurance and environmental requirements for the reaction of sodium into a material suitable for permanent disposition at Hanford. The configuration and construction of the SRF will depend upon the outcome of TWRS Milestone M-50-03 (March 31, 1998), which will determine if the SRF will produce a solid waste for burial at Hanford, or produce sodium hydroxide for use in the Hanford TWRS.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.8.01	5 WBS ELEMENT TITLE 308 Building Surveillance	
6 INDEX LINE NO. 0	7 REVISION NO AND AUTHORIZATION	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT Other Contractors and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT This activity provides for the environmental and safety compliance envelope of Building 308, in the Hanford 300 Area.</p> <p>The Environmental Restoration Contractor (ERC) will be funded to perform periodic monitoring/sampling to assure that safety and environmental requirements are being met. This includes radiological and safety monitoring, and building administration. Ownership of the building and technical responsibility will be transferred to the ERC in early FY 1997, if not before.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.8.03	5 WBS ELEMENT TITLE Legacy Occupancy	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Provide Landlord services for the High Temperature Sodium Facility located in Building 337 Highbay basement; and buildings 335 and 3718M.</p> <p>Approximately 3-times per week perform a walk-through inspection of the sodium systems located in Building 337 Highbay basement and Building 3718M. Provide electrical power and electrical maintenance for buildings 335, 335A, 3718M, and 337 Highbay. Provide inert gas for sodium system protection. Provide building emergency support for buildings containing sodium.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.8.04	5 WBS ELEMENT TITLE FMEF	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Provide management, engineering, maintenance, and utilities in accordance with approved procedures, DOE Orders, and federal/state environmental requirements. The Fuels and Materials Examination Facility (FMEF) work scope is limited to surveillance and maintenance of the facility.</p> <p>The FMEF is a seismically qualified "clean" facility that is being held in standby, waiting a possible mission. Revenue to partially offset the standby expenses is generated by leasing office and floor space to other Hanford Site organizations.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.9.02	5 WBS ELEMENT TITLE NE RCRA Closures	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Three NE legacy facilities were determined to require RCRA closure plans as appropriate remediation action. The three facilities are: 1) the 105-DR LSFF; 2) the 4843 AMSF; and 3) the 3718-F Alkali Metal Treatment and Storage Facility. These three facility RCRA closure plans were submitted to WA-Ecology and EPA between 1991 and 1992. The closure plan submittals meet the three respective TPA milestones.</p> <p>Field work is complete at all three locations, except for additional sampling that must be performed at the 3718-F Alkali Metal Treatment and Storage Facility. Both 4843 and 3718-F need to be certified "clean" for closure, then the State of Washington will accept these closures. The certification of the partial "clean" closure of 105-DR LSFF has been accepted by Washington State and efforts are underway to revise the RCRA permit and transition the facility over to the ERC.</p> <p>The 221-T Containment System Test Facility (CSTF) and Building 437, Maintenance and Storage Facility (MASF), must be procedurally closed.</p> <p>During the closure process, each facility must be monitored as a hazardous material location, until the Hanford Facilities RCRA permit has been modified. Following acceptance of the closures, the Hanford Facilities RCRA permit must be modified to reflect the status of the facilities.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.9.03	5 WBS ELEMENT TITLE NE Legacies	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>Provide management, technical lead and coordination for the disposition of the non-reactor NE facilities.</p> <p>The scope of this effort includes: development of the implementation plans to eliminate NE programs legacies; implementation of the Sodium Management Plan reflecting coordination with DOE and WA-Ecology and addressing potential RCRA issues and applicability; disposition of excess material associated with these facilities, as funds permit. This includes disposition of sodium test loops in accordance with CRADA.</p>		

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.4.8.00	5 WBS ELEMENT TITLE 309 Building S&M	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>S&M activities include: building administration, building operations, maintenance, and safety analysis.</p> <p>Building administration consists of work management using the JCS system, lock and tag administration, property protection, emergency planning, facility access control, facility orientation and maintenance of the shutdown log.</p> <p>Building operations consists of paying utility bills, maintaining safe conduct of operations, and surveillance. Surveillance includes routine radiation protection surveys, operations checks, housekeeping and safety inspections and compliance assurance.</p> <p>Maintenance includes preventive and corrective maintenance activities to ensure the building's safety envelope is adequate during the transition activities. It also includes input into the maintenance section of the building's D&D plan.</p>		

ADVANCED REACTORS TRANSITION

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2.2 WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 9/24/96	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.4.9.00	5 WBS ELEMENT TITLE 309 Building D/C	
6 INDEX LINE NO.	7 REVISION NO AND AUTHORIZATION 0	8 DATE
9 APPROVED CHANGES		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EX-70	
12 ELEMENT TASK DESCRIPTION <p>A. COST CONTENT</p> <p>Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.</p> <p>B. TECHNICAL CONTENT/WORK STATEMENT</p> <p>D/C will move the facility towards turnover to the ERC for interim S&M and final D&D. Activities to be accomplished include disposition the underground emergency diesel fuel oil tank; characterize, cleanout, and stabilize the Transfer Waste Tank farm, the Rupture Loop Annex, the Fuel Storage Basin, the Fuel Examination Cell, the Fuel Transfer Basin, and the PRTR reactor cavity; replace the H&V system HEPA filters; disconnect and cap sanitary and process sewer lines. Completion reports will be prepared for key activities.</p> <p>The facility Safety Basis document will be formatted in the Interim Safety Basis (ISB) style but of lesser scope to be consistent with the graded approach philosophy of a radiological facility rather than a nuclear facility.</p>		

ADVANCED REACTORS TRANSITION

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2.3 WBS Responsibility Assignment Matrix

DOE-HQ

Technical

Bob Lang (NE)
Shane Johnson (NE)

Programmatic

Beth Bilson (EM)
Jim Ahlgrim (EM)

DOE-RL

John Wagoner, Manager

Peter Knollmeyer, Acting Assistant
Manager, Facilities

Jim Mecca, Director,
Transition Program Division

Al Farabee, FFTF Program Manager

WHC

Ed Loika, Director,
FFTF Transition Project

Jim Steffen, Manager, Fuel Fabrication
Facilities Transition Project

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2.3.a WBS Responsibility Assignment Matrix - ADS 6640						
PROGRAM ELEMENT	RL WBS NUMBER	WHC ACTIVITY	WHC COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
6640	7.3.1.1.7.01	1B17	1B1701	Transition Project Office	Hulvey	18300 FFTF Transition Project Office
6640	7.3.1.1.8.01	2B18	2B1801	CENRTC	Ruge	18200 FFTF Engineering
6640	7.3.1.1.8.02	1B18	1B1802	System Maintenance	Boehnke	18600 FFTF Maintenance
6640	7.3.1.1.8.03	1B18	1B1803	Surveillance and Support Functions	Zimmerman	18800 FFTF Safety
6640	7.3.1.1.8.07	1B18	1B1807	Operations	Doebler	18100 FFTF Operations
6640	7.3.1.1.8.08	1B18	1B1808	Consumables	Doebler	18100 FFTF Operations
6640	7.3.1.1.8.0D	1B18	1B180D	Safeguards and Security	Walton	8P000 Safeguards and Security
6640	7.3.1.1.8.0E	1B18	1B180E	300 Area Fuel Oil Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.0F	1B18	1B180F	Other Materials Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.0G	1B18	1B180G	Various Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.0J	1B18	1B180J	Inventory - Spares	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.0L	1B18	1B180L	Regulatory Compliance	Dillhoff	18700 FFTF Technical Support
6640	7.3.1.1.9.03	1B19	1B1903	Fuel Offload	Witherspoon	18300 FFTF Transition Project Office
6640	7.3.1.1.9.04	1B19	1B1904	Na/Nak Removal & System Shutdown	Burke	18200 FFTF Engineering
6640	7.3.1.1.9.05	1B19	1B1905	Support System Shutdown	Guttenberg	18200 FFTF Engineering
6640	7.3.1.1.9.06	1B19	1B1906	SRF Engineering	Burke	18200 FFTF Engineering

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2.3.b WBS Responsibility Assignment Matrix - ADS 6641						
PROGRAM ELEMENT	RL WBS NUMBER	WHC ACTIVITY	WHC COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
6641	7.3.1.3.8.01	1868	186801	308 Building Surveillance	Bitten	19100 Advanced Fuel Facilities Transition
6641	7.3.1.3.8.03	1868	186803	Legacy Occupancy	McCargar	18200 FFTF Engineering
6641	7.3.1.3.8.04	1868	186804	FMEF	Bitten	19100 Advanced Fuel Facilities Transition
6641	7.3.1.3.9.02	1869	186902	NE RCRA Closures	Dillhoff	18700 FFTF Technical Support
6641	7.3.1.3.9.03	1869	186903	NE Legacies	McCargar	18200 FFTF Engineering

2.3.c WBS Responsibility Assignment Matrix - ADS 6642						
PROGRAM ELEMENT	RL WBS NUMBER	WHC ACTIVITY	WHC COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
6642	7.3.1.2.9.03	1899	189903	SSF Construction Project	McCargar	18200 FFTF Engineering
6642	7.3.1.2.9.04	1899	189904	SRF Construction Project	McCargar	18200 FFTF Engineering

2.3.d WBS Responsibility Assignment Matrix - ADS 6643						
PROGRAM ELEMENT	RL WBS NUMBER	WHC ACTIVITY	WHC COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
6643	7.3.1.4.8	1878	187800	309 Building S&M	Bitten	19100 PRTR Transition
6643	7.3.1.4.9	1879	187900	309 Building D/C	Bitten	19100 PRTR Transition

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3.1 Project Master Baseline Schedule

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3.1.1 Wash and Package Schedule for Fueled Components

Activity	FY95	FY96	FY97	FY98	FY99	FY00
Fuel Offload ATP	8/16	1 ISC 1/26				
Wash, Package & Transfer Fueled Components to ISA		8 ISC _s 2/6 7/9				
Fuel Offload Maintenance Period		7/10 9/6				
Move Test Assemblies to TACS		9/3 10/3				
Ident-69 Washing Demonstration		2 ISC _s 10/3 12/20				
Wash, Package & Transfer Fueled Components to ISA		3 ISC _s 12/23 2/20				
PNNL Fuel Return		2/21 3/3				
Wash, Package & Transfer Fueled Components to ISA		1 ISC 3/4 3/21				
Wash, Package & Ship Fueled Components to PFP		4 ISC _s /DSWC _s 3/24 8/6				
Wash, Package & Ship Fueled Components to PFP		4 ISC _s /DSWC _s 6/23 9/9				
Fuel Offload Maintenance Period		9/10 10/14				
Wash, Package & Transfer Fueled Components to ISA		14 ISC _s 10/15 7/8				
Fuel Offload Maintenance Period		7/9 8/26				
Wash, Package & Transfer Fueled Components to ISA		20 ISC _s 8/27 9/9				
Receipt of Interim Storage Casks	0/6	10 ISC _s 5/2 6/13	20 ISC _s 12/31	22 ISC _s 5/15		

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3.1.2 Schedule for Sodium Drain

Activity	FY97	FY98	FY99	FY00
Sodium Drain Engineering and Preparations	10/1 2/7			
Direction received to resume sodium drain transition activities	1/1			
Secondary Sodium Drain Readiness Assessment	1/2 2/7			
Sodium Storage Facility Readiness Assessment	1/13 1/30			
Secondary Sodium Drain to SSF	2/10 3/5			
Secondary IHX Sodium Drain	3/6 5/18			
IDS and N-5 NaK Disposition to T-42	5/19 7/8			
Primary HTS and HTS-South Sodium Drain Readiness Assessment	6/25 7/8			
Primary HTS Sodium Loop Drain	7/9 8/18			
Primary Sodium Sampling and Process System Drain	8/19 9/10			
Reactor Vessel Drill and Sodium Drain Readiness Assessment	9/18 10/1			
Reactor Vessel Sodium Drain	10/2 12/31			
FSF NaK Disposition			12/8 3/5	
FSF Sodium Drain			3/8 4/13	
IDS/CCP Sodium Drain to T-43			9/10 1/20	
IDS Process Loop and T-43 Drain				1/21 3/3

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3.1.3 Schedule for NE Legacies

Activity	FY97	FY98	FY99	FY00	FY01
Complete TTL removal	10/1 → 3/3				
Clean small tanks	10/1 → SHTL 4/15 → TTL 9/30 → PAL 6/30				
Move 1720-DR tank to 300 Area	10/1 → 2/3				
Drain and clean 1720-DR tank	2/3 → Drain 7/1 → Clean 4/1				
Prep for draining 3718 M tank	10/1 → 6/30				
Drain and clean 3718 M tank			6/30 → Drain 6/30 → Clean 1/1		
Remove and ship Building 337 piping and controls	10/1 → 9/30				
Remove NaK and system from Building 337		10/1 → 6/1			
Drain and clean CRCTA tank		10/1 → 9/30			
Remove and ship 221-T controls and piping		10/1 → 9/30			
Drain and clean 221-T tanks			10/1 → Drain 2/1 → Clean 9/30		
NE Legacy support	10/1 → 4/1				

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ADVANCED REACTORS TRANSITION

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3.2.a Milestone List for ADS 6640					
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B17-97-101	7.3.1.1.7.01	6640	Update the Advanced Reactors Transition Resource Loaded Schedule	10/31/96
RL	B18-97-301	7.3.1.1.8.03	6640	Perform the Phase 1 Assessment of the FFTF S/RID	11/27/96
RL	B19-97-601	7.3.1.1.9.06	6640	Submit the Sodium Reaction Facility Functional Design Criteria for RL approval	11/30/96
RL	B17-97-104	7.3.1.1.7.01	6640	Update the FFTF Transition Project Plan	11/30/96
FO	B19-97-301	7.3.1.1.9.03	6640	Complete the FFTF IDENT-69 Washing Demonstration	12/20/96
RL	B18-97-201	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 96-4	12/31/96
RL	B18-97-302	7.3.1.1.8.03	6640	Develop the FFTF S/RID Phase 2 Assessment Plan	12/31/96
RL	B19-97-501	7.3.1.1.9.05	6640	Complete the FFTF Group 2 systems shutdown	1/22/97
FO	B19-97-401	7.3.1.1.9.04	6640	Complete the Sodium Storage Facility Readiness Assessment	1/30/97
FO	B19-97-402	7.3.1.1.9.04	6640	Drain the FFTF secondary sodium to the Sodium Storage Facility	3/05/97
FO	B19-97-302	7.3.1.1.9.03	6640	Transfer four FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area	3/24/97
RL	B19-97-602	7.3.1.1.9.06	6640	Submit the Sodium Reaction Facility Conceptual Design Report for RL approval	3/31/97
RL	B18-97-202	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 97-1	3/31/97
RL	B19-97-403	7.3.1.1.9.04	6640	Issue report documenting FFTF Near Full Scale Drill Testing	4/01/97

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3.2.a Milestone List for ADS 6640 (continued)

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B17-97-102	7.3.1.1.7.01	6640	Prepare the Advanced Reactors Transition FY 1999 Activity Data Sheet final drafts	4/01/97
RL	B19-97-502	7.3.1.1.9.05	6640	Complete the FFTF Group 3 systems shutdown	4/09/97
FO	B19-97-404	7.3.1.1.9.04	6640	Drain the FFTF Intermediate Heat Exchangers secondary sodium to the Sodium Storage Facility	5/16/97
RL	B18-97-203	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 97-2	6/30/97
RL	B19-97-405	7.3.1.1.9.04	6640	Flush and drain the NaK from the FFTF primary sodium cold trap (N-5) and the Interim Decay Storage NaK loops	7/08/97
RL	B19-97-406	7.3.1.1.9.04	6640	Drain the FFTF Heat Transport System primary sodium loops	8/18/97
RL	B17-97-103	7.3.1.1.7.01	6640	Prepare the Advanced Reactors Transition FY 1998 Multi-Year Work Plan final draft	8/30/97
FO	B19-97-303	7.3.1.1.9.03	6640	Ship five FFTF Disposable Solid Waste Casks and three FFTF Interim Storage Casks containing 53 FFTF fueled components to the Plutonium Finishing Plant Protected Area	9/09/97
FO	B19-97-407	7.3.1.1.9.04	6640	Drain the FFTF primary sodium sampling and process systems	9/10/97
RL	B18-97-204	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 97-3	9/30/97
FO	B19-98-403	7.3.1.1.9.04	6640	Complete the readiness assessment for the FFTF reactor vessel sodium drain to the Sodium Storage Facility	10/01/97
RL	B19-98-301	7.3.1.1.9.03	6640	Complete P0-4 processing to pins ready to leave the IEM Cell	10/30/97

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3.2.a Milestone List for ADS 6640 (continued)

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B17-98-104	7.3.1.1.7.01	6640	Update the Advanced Reactors Transition Resource Loaded Schedule	10/31/97
RL	B19-98-501	7.3.1.1.9.05	6640	Remove the FFTF PCB Transformers X5 and X6	11/20/97
RL	B17-98-106	7.3.1.1.7.01	6640	Update the FFTF Transition Project Plan	11/30/97
RL	B18-98-201	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 97-4	12/31/97
FO	B19-98-404	7.3.1.1.9.04	6640	Drain the FFTF reactor vessel sodium to the Sodium Storage Facility	12/31/97
RL	B18-98-202	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 98-1	3/31/98
RL	B17-98-103	7.3.1.1.7.01	6640	Prepare the FY 2000 Advanced Reactors Transition Activity Data Sheet final drafts	4/01/98
FO	B19-98-601	7.3.1.1.9.06	6640	Prepare the FFTF sodium disposition evaluation report/decision point	5/30/98
RL	B18-98-203	7.3.1.1.8.02	6640	Complete the FFTF Shutdown Work Phase 98-2	6/30/98
FO	B19-98-302	7.3.1.1.9.03	6640	Transfer 14 FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area	7/08/98
RL	B19-98-303	7.3.1.1.9.03	6640	Complete the processing of Delayed Neutron Monitor ACN-1	8/05/98
RL	B17-98-105	7.3.1.1.7.01	6640	Prepare the Advanced Reactors Transition FY 1999 Multi-Year Work Plan final draft	8/30/98
RL	B18-98-204	7.3.1.1.8.02	6640	Complete FFTF Shutdown Work Phase 98-3	9/30/98

¹ This milestone allows time for RL to review and submit it to WA-Ecology. See M-81-02-T01 in Table 3.2.e.

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3.2.a Milestone List for ADS 6640 (continued)

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
FO	B17-99-101	7.3.1.1.7.01	6640	Submit the FFTF End Point Criteria document to RL ²	10/01/98
RL	B17-99-103	7.3.1.1.7.01	6640	Update the Advanced Reactors Transition Resource Loaded Schedule	10/31/98
RL	B17-99-104	7.3.1.1.7.01	6640	Update the FFTF Transition Project Plan	11/30/98
RL	B19-99-501	7.3.1.1.9.05	6640	Complete the FFTF Group 4 systems shutdown	2/11/99
RL	B19-99-403	7.3.1.1.9.04	6640	Drain the Fuel Storage Facility NaK Loop	3/05/99
RL	B17-99-105	7.3.1.1.7.01	6640	Prepare the Advanced Reactors Transition FY 2001 Activity Data Sheet final drafts	4/01/99
FO	B19-99-404	7.3.1.1.9.04	6640	Drain the Fuel Storage Facility sodium to the Sodium Storage Facility	4/13/99
RL	B19-99-502	7.3.1.1.9.05	6640	Complete the FFTF Group 5 systems shutdown	4/30/99
RL	B19-99-503	7.3.1.1.9.05	6640	Remove the FFTF PCB Transformers X100 and X101	6/30/99
RL	B17-99-106	7.3.1.1.7.01	6640	Prepare the Advanced Reactors Transition FY 2000 Multi-Year Work Plan final draft	8/30/99
FO	B19-99-304	7.3.1.1.9.03	6640	Transfer 20 FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area	9/09/99
HQ	B19-99-305	7.3.1.1.9.03	6640	Complete the FFTF Fuel Offload	9/09/99

² There is a TPA milestone that has a negotiated due date of 12/98. See M-81-03 in Table 3.2.e.

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3.2.b Milestone List for ADS 6641

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B69-97-303	7.3.1.3.9.03	6641	Move the 1720-DR sodium tank to the 300 Area	2/03/97
RL	B69-97-301	7.3.1.3.9.03	6641	Complete the Transient Test Loop removal	3/03/97
RL	B69-97-304	7.3.1.3.9.03	6641	Clean the Small Heat Transfer Loop and the Thermal Transient Loop sodium tanks	9/30/97
RL	B69-98-303	7.3.1.3.9.03	6641	Remove the 337 Building NaK	6/01/98
RL	B69-98-304	7.3.1.3.9.03	6641	Clean the Prototype Application Loop Sodium Tank	6/30/98
FO	B69-98-305	7.3.1.3.9.03	6641	Revise the Hanford Site Sodium Management Plan	9/30/98

³ There is a TPA milestone that has a negotiated due date of 10/98. See M-92-10 in Table 3.2.e.

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3.2.c Milestone List for ADS 6642

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
FO	B99-97-302	7.3.1.2.9.03	6642	Complete the Sodium Storage Facility construction and turnover	11/27/96

3.2.d Milestone List for ADS 6643

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B79-97-901	7.3.1.4.9.00	6643	Stabilize the PRTR Rupture Loop Annex	9/05/97
RL	B79-97-902	7.3.1.4.9.00	6643	Stabilize the PRTR Transfer Waste Holding tanks	9/30/97
RL	B79-98-902	7.3.1.4.9.00	6643	Characterize/Stabilize the PRTR reactor cavity	12/12/97
RL	B79-98-903	7.3.1.4.9.00	6643	Stabilize the PRTR Fuel Examination Cell	12/12/97
RL	B79-98-901	7.3.1.4.9.00	6643	Stabilize the 309 Building stack and pits	9/16/98
FO	B79-98-904	7.3.1.4.9.00	6643	Transition Building 309 to shutdown status	9/30/98

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3.2.e Milestones List for Tri-Party Agreement

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
TPA-FO M-81-04-T01	B19-98-401	7.3.1.1.9.04	6640	Complete Reactor and Heat Transport System sodium drain	4/98
TPA-FO M-81-02-T01	B17-98-107	7.3.1.1.7.01	6640	Submit sodium disposition evaluation report/decision point	6/98
TPA-FO M-81-02	B19-98-402	7.3.1.2.9.03	6640	Complete Sodium Storage Facility startup	7/98
TPA-FO M-81-00-T02	B19-99-301	7.3.1.1.9.03	6640	Complete transfer of irradiated fuel to dry cask storage	10/98
TPA-FO M-81-00-T03	B19-99-302	7.3.1.1.9.03	6640	Complete transfer of unirradiated fuel to the Plutonium Finishing Plant	10/98
TPA-FO M-81-00-T04	B19-99-303	7.3.1.1.9.03	6640	Complete transfer of special fuel to the Idaho National Engineering Laboratory for consolidated fuel	10/98
TPA-FO M-92-09	B19-99-402	7.3.1.1.9.04	6640	Complete acquisition of new facilities, modifications of existing facilities, and/or modifications of planned facilities necessary for storage, treatment/processing, and disposal of Hanford Site sodium	10/98
TPA-FO M-92-10	B69-99-302	7.3.1.3.9.03	6641	Submit Hanford Site Sodium Project Management Plan (PNP) to Ecology pursuant to Agreement Action Plan section 11.5	10/98
TPA-FO M-81-03	B17-99-102	7.3.1.1.7.01	6640	Submit FTFE End Point Criteria Document	12/98
TPA-FO M-81-04-T02	B19-99-401	7.3.1.1.9.04	6640	Complete Interim Decay Storage and Fuel Storage Facility sodium drain	12/98
TPA-FO M-20-29A	B17-00-101	7.3.1.1.7.01	6640	Submit Sodium Storage Facility and Sodium Reaction Facility closure plan or request for procedural closure as defined in Section 6.3.3 of this Tri-Party Agreement to EPA and Ecology	12/99

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3.2.e Milestones List for Tri-Party Agreement					
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
TPA-FO M-81-04	B19-00-401	7.3.1.1.9.04	6640	Complete FFTF sodium drain	3/2000
TPA-FO M-81-00-T05	B19-01-501	7.3.1.1.9.05	6640	Complete auxiliary systems deactivation	3/2001
TPA-FO M-81-05	B17-01-101	7.3.1.1.7.01	6640	Submit FFTF Surveillance and Maintenance Plan	6/2001
TPA-FO M-81-06	B19-01-502	7.3.1.1.9.05	6640	Complete PCB Transformer Disposal	9/2001
TPA-FO M-81-00	B17-02-101	7.3.1.1.7.01	6640	Complete FFTF transition and initiate the Surveillance and Maintenance phase	12/2001
TPA-FO MX-92-11T	B69-02-301	7.3.1.3.9.03	6641	Complete disposition options for all Hanford Site nonradioactive sodium	3/2002

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3.3 Milestone Description Sheet			
Title: Update the Advanced Reactors Transition Resource Loaded Schedule			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 10/31/96
Control Number: B17-97-101			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the Resource Loaded Schedule (RLS) to reflect transitional progress and new guidance from DOE.			
Description of what constitutes completion of this milestone: Submit revised RLS to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Perform the Phase 1 Assessment of the FFTF S/RID			Date: 9/24/96
Assigned To: W. L. Marshall			CIN:
Program WBS Designator: 7.3.1.1.8.03			Due Date: 11/27/96
Control Number: B18-97-301			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform an administrative assessment of the FFTF Standards/Requirements Identification Document (S/RID) in accordance with QA manual CM-4-2, Quality Assurance.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of the Phase 1 assessment.			
Cost Account Manager R. O. Zimmerman		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the Sodium Storage Facility construction and turnover			Date: 9/24/96
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.2.9.03			Due Date: 11/27/96
Control Number: B99-97-302			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Complete the construction and turnover of the Sodium Storage Facility (SSF) to the operating contractor. Work scope encompasses site preparation; transporting four Clinch River Breeder Reactor tanks (three 80,000 gallons and one 52,000 gallons) from the 300 Area storage site to FFTF; constructing building foundation and sodium catch pan; installing tanks; constructing the SSF building; installing piping/tank trace heating system, controls and insulation; and performing system leak tests and trace heating system tests followed by turnover to the operating contractor.			
Description of what constitutes completion of this milestone: Construction and turnover of the SSF is complete, including sign off approval of the Acceptance of Completed Work form.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Submit the Sodium Reaction Facility Functional Design Criteria for RL approval			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.06			Due Date: 11/30/96
Control Number: B19-97-601			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare a Functional Design Criteria (FDC) for the Sodium Reaction Facility (SRF). The FDC is based on converting the FFTF sodium to a suitable waste form.			
Description of what constitutes completion of this milestone: Submit the SRF FDC to RL for approval.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Update the FFTF Transition Project Plan			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 11/30/96
Control Number: B17-97-104			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the FFTF Transition Project Plan to reflect the current scope, cost, and schedule baseline. This includes the resolution of institutional and technical issues, Tri-Party Agreement milestones, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit revised FFTF Transition Project Plan to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF IDENT-69 Washing Demonstration			Date: 9/24/96
Assigned To: S. W. Hiller			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 12/20/96
Control Number: B19-97-301			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the IDENT-69 Washing Demonstration which supports the FFTF Fuel Offload Program. This activity will wash a minimum of six IDENT-69 pin containers and place them in two FFTF Core Component Containers (CCC). Once the wash demonstration is complete, the two partially filled CCCs will be filled with additional washed FFTF fueled components, placed in two FFTF Interim Storage Casks (ISC), and transferred to the 400 Area Interim Storage Area (ISA).			
Description of what constitutes completion of this milestone: Two more loaded FFTF ISCs have been transferred to the 400 Area ISA.			
Cost Account Manager W. V. Witherspoon		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 96-4			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 12/31/96
Control Number: B18-97-201			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 96-4.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 96-4 by the FFTF Management Review Board is complete.			
Cost Account Manager		Program/Project Manager	
G. J. Boehnke		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Develop the FFTF S/RID Phase 2 Assessment Plan			Date: 9/24/96
Assigned To: W. L. Marshall			CIN:
Program WBS Designator: 7.3.1.1.8.03			Due Date: 12/31/96
Control Number: B18-97-302			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☒ Drawings ☐ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Develop the compliance assessment plan for the FFTF Standards/Requirements Identification Document (S/RID) in accordance with QA manual CM-4-2, Quality Assurance.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of the initial FFTF S/RID Phase 2 Assessment Plan.			
Cost Account Manager R. O. Zimmerman		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Group 2 systems shutdown			Date: 9/24/96
Assigned To: S. V. Doeblen			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 1/22/97
Control Number: B19-97-501			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Shut down the Group 2 systems. Note: Once a system has been shut down, one or more of the following conditions will/may exist: <ul style="list-style-type: none"> • Poses no hazards • Cannot be operated • Requires minimal maintenance • Causes no locked-in alarms • May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc. 			
Description of what constitutes completion of this milestone: The Group 2 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Complete the Sodium Storage Facility Readiness Assessment			Date: 9/24/96
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 1/30/97
Control Number: B19-97-401			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☒ TPA Number <u>M-81-02*</u>	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the readiness assessment for the new Sodium Storage Facility (SSF). This includes all post construction calibration, grooming and alignment; operational testing to ensure SSF readiness to accept liquid sodium from the FFTF; and verification that procedures are approved and crew training complete.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of the SSF readiness assessment.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

- * There is a companion TPA milestone M-81-02/B19-98-402 titled "Complete Sodium Storage Facility startup" that has a completion date of 7/98.

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3.3 Milestone Description Sheet (continued)			
Title: Move the 1720-DR sodium tank to the 300 Area			Date: 9/24/96
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 2/03/97
Control Number: B69-97-303			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Move the 1720-DR tank to the 300 Area			
Description of what constitutes completion of this milestone: The 1720-DR and its cover building are moved to the new site in the 300 Area (part of cover building may be scrapped). The pit at the previous building location has been filled in.			
Cost Account Manager		Program/Project Manager	
C. G. McCargar		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Complete the Transient Test Loop removal			Date: 9/24/96
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 3/03/97
Control Number: B69-97-301			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Remove the Transient Test Loop in Building 335-A.			
Description of what constitutes completion of this milestone: Sodium has been drained from the dump tank. All piping, electrical, and control equipment has been removed and sent offsite, recycled, or disposed. All components such as tanks, heat exchanger, pumps, and valves that are not part of the piping have been either cut up and loaded into waste drums, or safely isolated for future disposition. Insulation and wiring have been recycled or discarded. Building 335-A has been dismantled or left in a safe condition for turnover to D&D.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Drain the FFTF secondary sodium to the Sodium Storage Facility			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 3/05/97
Control Number: B19-97-402			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the FFTF Secondary Heat Transport System, including the secondary sodium process loops to the Sodium Storage Facility.			
Description of what constitutes completion of this milestone: The secondary sodium systems are drained to the maximum extent possible with the exception of the Intermediate Heat Exchangers, which will be drained later, and the cold traps, which remain filled and frozen. Remaining sodium residuals are frozen and inerted, and primary sodium is being maintained molten by trace heat and reactor vessel immersion heaters.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Transfer four FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area			Date: 9/24/96
Assigned To: S. V. Doeblner			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 3/24/97
Control Number: B19-97-302			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Continue washing, packaging and transferring FFTF fueled components in FFTF Interim Storage Casks (ISC) to the 400 Area Interim Storage Area (ISA).			
Description of what constitutes completion of this milestone: Four more loaded FFTF ISCs have been transferred to the 400 Area ISA.			
Cost Account Manager		Program/Project Manager	
W. V. Witherspoon		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Submit the Sodium Reaction Facility Conceptual Design Report for RL approval			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.06			Due Date: 3/31/97
Control Number: B19-97-602			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare a Conceptual Design Report (CDR) for the Sodium Reaction Facility (SRF). The CDR is based on converting the FFTF sodium to a suitable waste form.			
Description of what constitutes completion of this milestone: Submit SRF CDR to RL for approval.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 97-1			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 3/31/97
Control Number: B18-97-202			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 97-1.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 97-1 by the FFTF Management Review Board is complete.			
Cost Account Manager G. J. Boehnke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Issue report documenting FFTF Near Full Scale Drill Testing			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 4/01/97
Control Number: B19-97-403			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare a report documenting the results and conclusion of the near full scale (Phase III) testing of the reactor inlet plenum drill equipment. This report shall also document, in detail, the Phase I and II test results which were previously summarized in WHC-SD-FF-ER-106, "FTTF Reactor Vessel Sodium Drain - Options and Recommendations."			
Description of what constitutes completion of this milestone: Submit a copy of the test report to RL.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Prepare the Advanced Reactors Transition FY 1999 Activity Data Sheet final drafts			Date: 9/24/96
Assigned To: D. A. Gantt			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/01/97
Control Number: B17-97-102			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 1999 final draft Activity Data Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final drafts of Advanced Reactors Transition FY 1999 ADS 6640, 6641, 6642, and 6643 to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Group 3 systems shutdown			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 4/09/97
Control Number: B19-97-502			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Shut down the Group 3 systems. Note: Once a system has been shut down, one or more of the following conditions will/may exist: <ul style="list-style-type: none"> • Poses no hazards • Requires minimal maintenance • May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc. • Cannot be operated • Causes no locked-in alarms 			
Description of what constitutes completion of this milestone: The Group 3 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Drain the FFTF Intermediate Heat Exchangers secondary sodium to the Sodium Storage Facility			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 5/16/97
Control Number: B19-97-404			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the FFTF Intermediate Heat Exchangers (IHX) secondary sodium drain to the Sodium Storage Facility (SSF).			
Description of what constitutes completion of this milestone: The FFTF IHX secondary sodium has been drained to the SSF.			
Cost Account Manager		Program/Project Manager	
T. M. Burke		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 97-2			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 6/30/97
Control Number: B18-97-203			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 97-2.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 97-2 by the FFTF Management Review Board is complete.			
Cost Account Manager		Program/Project Manager	
G. J. Boehnke		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

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3.3 Milestone Description Sheet (continued)			
Title: Flush and drain the NaK from the FFTF primary sodium cold trap (N-5) and the Interim Decay Storage NaK loops			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 7/08/97
Control Number: B19-97-405			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Flush the primary sodium cold trap N-5 and the Interim Decay Storage (IDS) sodium potassium (NaK) cooling loops with sodium and then drain to the primary sodium processing system.			
Description of what constitutes completion of this milestone: The N-5 and IDS NaK cooling loops have been flushed with sodium and drained to T-42. The remaining sodium residuals are frozen and inerted.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

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3.3 Milestone Description Sheet (continued)			
Title: Drain the FFTF Heat Transport System primary sodium loops			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 8/18/97
Control Number: B19-97-406			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the FFTF primary Heat Transport System (HTS) (excluding the auxiliary sodium systems and reactor vessel) to the Sodium Storage Facility (SSF). Draining of the auxiliary sodium systems and reactor vessel are covered by separate milestones.			
Description of what constitutes completion of this milestone: The primary HTS, excluding the sodium process and sampling systems and reactor vessel, are drained to the SSF to the maximum extent possible. Sodium residuals are frozen and inerted. The primary sodium storage tank will contain a minimum heel pending completion of the auxiliary sodium systems, reactor and Interim Decay Storage vessel drains.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Prepare the Advanced Reactors Transition FY 1998 Multi-Year Work Plan final draft			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 8/30/97
Control Number: B17-97-103			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 1998 final draft Multi-Year Work Plan (MYWP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final draft of Advanced Reactors Transition FY 1998 MYWP to RL.			
Cost Account Manager		Program/Project Manager	
R. K. Hulvey		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Stabilize the PRTR Rupture Loop Annex			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/05/97
Control Number: B79-97-901			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: The Plutonium Recycle Test Reactor (PRTR) Rupture Loop Annex surfaces which contain smearable contamination must be decontaminated and/or coated, as necessary, to stabilize any residual surface contamination. Contaminated portable equipment and components must be removed and prepared for disposal.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of PRTR Rupture Loop Annex decontaminating activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Ship five FFTF Disposable Solid Waste Casks and three FFTF Interim Storage Casks containing 53 FFTF fueled components to the Plutonium Finishing Plant Protected Area			Date: 9/24/96
Assigned To: S. V. Doeblner			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 9/09/97
Control Number: 819-97-303			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Wash, package and ship 53 FFTF fueled components in concrete casks to the Plutonium Finishing Plant (PFP).			
Description of what constitutes completion of this milestone: Five FFTF Disposable Solid Waste Casks and three FFTF Interim Storage Casks have been shipped to the PFP Protected Area for interim storage.			
Cost Account Manager		Program/Project Manager	
W. V. Witherspoon		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Drain the FFTF primary sodium sampling and process systems			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 9/10/97
Control Number: B19-97-407			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the FFTF primary auxiliary sodium systems to the Sodium Storage Facility (SSF). Draining of the reactor vessel is covered by a separate milestone.			
Description of what constitutes completion of this milestone: The primary sodium process and sampling systems are drained to the SSF to the maximum extent possible. Sodium residuals are frozen and inerted. The primary sodium storage tank will contain a minimum heel pending completion of reactor and Interim Decay Storage vessel drains.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 97-3			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 9/30/97
Control Number: B18-97-204			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 97-3.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 97-3 by the FFTF Management Review Board is complete.			
Cost Account Manager		Program/Project Manager	
G. J. Boehnke		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Clean the Small Heat Transfer Loop and the Thermal Transient Loop sodium tanks			Date: 9/24/96
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 9/30/97
Control Number: B69-97-304			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: The sodium dump tanks from the Small Heat Transfer Loop and the Thermal Transient Loop need to be cleaned.			
Description of what constitutes completion of this milestone: All sodium and sodium compounds have been removed from the tanks, (confirmed by visual inspection and/or monitoring of rinse water chemistry) and the tanks are acceptable for recycle or scrap.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Stabilize the PRTR Transfer Waste holding tanks			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/30/97
Control Number: B79-97-902			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: The Transfer Waste (TW) holding tank's heels must be removed, packaged, and disposed; piping must be plugged; and tanks, sumps, and ion exchanger column must be removed, if necessary, and prepared for burial at the Solid Waste Burial Grounds.			
Description of what constitutes completion of this milestone: Submit letter to RL documenting completion of TW holding tank activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the readiness assessment for the FFTF reactor vessel sodium drain to the Sodium Storage Facility			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 10/01/97
Control Number: B19-98-403			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the readiness assessment for the FFTF plant to support initiation of reactor sodium drain. The readiness assessment verifies that all required plant preparations including plenum drill hardware fabrication/ testing, dip tube/drain piping design, procedure preparation and crew training are complete.			
Description of what constitutes completion of this milestone: The contractor portion of the readiness assessment denotes contractor approval that all necessary activities for start of reactor vessel sodium drain to the Sodium Storage Facility are complete.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete PO-4 processing to pins ready to leave the IEM Cell			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 10/30/97
Control Number: B19-98-301			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Disassemble the Advanced Oxide Fuel Test No. 4 (PO-4) in the Interim Examination and Maintenance (IEM) Cell. The identified leaker pins will be encapsulated and placed along with the rest of the pins in IDENT-69 pin containers.			
Description of what constitutes completion of this milestone: All pins have been removed from the PO-4 assembly and placed in IDENT-69 pin containers.			
Cost Account Manager	Date	Program/Project Manager	Date
W. V. Witherspoon		R. K. Hulvey	
Program Element Manager	Date		
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Update the Advanced Reactors Transition Resource Loaded Schedule			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 10/31/97
Control Number: B17-98-104			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the Resource Loaded Schedule (RLS) to reflect transitional progress and new guidance from DOE.			
Description of what constitutes completion of this milestone: Submit revised RLS to RL.			
Cost Account Manager		Program/Project Manager	
R. K. Hulvey		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Remove the FFTF PCB Transformers X5 and X6			Date: 9/24/96
Assigned To: S. Guttenberg			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 11/20/97
Control Number: B19-98-501			Rev: 0
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
<p>Milestone Description: Following Primary Heat Transport System sodium drain, electrical loads will be shifted/removed from electrical transformers X5 and X6. These transformers, which contain polychlorinated biphenyl (PCB) contaminated oil, will then be drained into drums, and the drums and transformer shells removed for disposal.</p>			
<p>Description of what constitutes completion of this milestone: The two transformer shells and the drums containing the PCB contaminated transformer oil have been transported to the Hanford Disposal Facility.</p>			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Update the FFTF Transition Project Plan			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 11/30/97
Control Number: B17-98-106			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the FFTF Transition Project Plan to reflect the current scope, cost, and schedule baseline. This includes the resolution of institutional and technical issues, Tri-Party Agreement milestones, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit revised FFTF Transition Project Plan to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Characterize/stabilize the PRTR reactor cavity			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 12/12/97
Control Number: B79-98-902			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Conduct a detailed radiological and hazardous materials survey on the radiological contents remaining in the Plutonium Recycle Test Reactor (PRTR) calandria, moderator storage tank, primary cooling system, and a representative sampling of reactor process tubes. Any heel remaining in the moderator storage tank will be removed and prepared for disposal.			
Description of what constitutes completion of this milestone: Submit letter to RL documenting completion of the PRTR reactor cavity characterization/stabilization activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Stabilize the PRTR Fuel Examination Cell			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 12/12/97
Control Number: B79-98-903			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
<p>Milestone Description: Conduct a detailed radiological and hazardous materials survey to characterize contamination found in the Plutonium Recycle Terst Reactor (PRTR) Fuel Examination Cell. Inspect the cell's trap door. Remove portable contaminated equipment and prepare for shipment to the Solid Waste Burial Grounds. Remove smearable contamination from surfaces of the cell, and where necessary, stabilize residual surface contamination.</p>			
<p>Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of PRTR Fuel Examination Cell Stabilization activities.</p>			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 97-4			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 12/31/97
Control Number: B18-98-201			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 97-4.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 97-4 by the FFTF Management Review Board is complete.			
Cost Account Manager G. J. Boehnke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Drain the FFTF reactor vessel sodium to the Sodium Storage Facility			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 12/31/97
Control Number: B19-98-404			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☒ TPA Number <u>M-81-04-T01*</u>	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the FFTF reactor vessel to the Sodium Storage Facility (SSF). The primary sodium storage tank will contain a minimum heel pending completion of Interim Decay Storage vessel drain.			
Description of what constitutes completion of this milestone: The reactor vessel is drained to SSF to the maximum extent possible. Sodium residuals are inerted.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

* There is a companion TPA milestone M-81-04-T01/B19-98-401 titled "Complete Reactor and Heat Transport System sodium drain" that has a completion date of 4/98.

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 98-1			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 3/31/98
Control Number: B18-98-202			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 98-1.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 98-1 by the FFTF Management Review Board is complete.			
Cost Account Manager G. J. Boehnke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Prepare the FY 2000 Advanced Reactors Transition Activity Data Sheet final drafts			Date: 9/24/96
Assigned To: D. A. Gantt			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/01/98
Control Number: B17-98-103			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 2000 final draft Activity Date Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final drafts of Advanced Reactors Transition FY 2000 ADS 6640, 6641, and 6642 to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Prepare the FFTF sodium disposition evaluation report/decision point			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.06			Due Date: 5/30/98
Control Number: B19-98-601			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☒ TPA Number <u>M-81-02-T01*</u>	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform an evaluation of the acceptable sodium product form for the Tank Waste Remediation System (TWRS) tank sludge pretreatment process (i.e., caustic washing). This evaluation will be conducted in concert with TWRS Tri-Party Agreement milestone M-50-03 (due March 31, 1998). The FFTF evaluation will address other conversion options for disposal of the sodium if use by TWRS is not viable.			
Description of what constitutes completion of this milestone: Submit a copy of the sodium disposition evaluation with a recommendation on the final sodium form to RL. NOTE: Completion of the Tri-Party Agreement milestone M-50-03 will require RL to submit the evaluation and the decision on the final sodium form to Ecology and EPA for information by June 30, 1998.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

- * There is a companion TPA milestone M-81-02-T01/B17-98-102 titled "Prepare sodium disposition evaluation report/decision point" that has a completion date of 6/98. The 5/30/98 date for this milestone allows time for RL to submit the evaluation to WA-Ecology.

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Remove the Building 337 NaK			Date: 9/24/96
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 6/01/98
Control Number: B69-98-303			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Remove the sodium potassium alloy (NaK) from Building 337.			
Description of what constitutes completion of this milestone: NaK is drained from the Building 337 cold trap cooling loop and cold trap jacket, and safely stored or shipped offsite. The NaK piping is also removed.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 98-2			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 6/30/98
Control Number: B18-98-203			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 98-2.			
Description of what constitutes completion of this milestone: The work designated as mandatory for Work Phase 98-2 by the FFTF Management Review Board is complete.			
Cost Account Manager G. J. Boehnke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Clean the Prototype Application Loop Sodium Tank			Date: 9/24/96
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 6/30/98
Control Number: B69-98-304			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Clean the Prototype Application Loop (PAL) sodium tank. Note: It may be necessary to remove tank internals and dispose of them as sodium-containing waste, if they cannot be cleaned effectively.			
Description of what constitutes completion of this milestone: All sodium and sodium compounds have been removed from the PAL tank, including all the tank internals. Cleanliness has been verified by visual inspection and/or analysis of rinse water. The tank is suitable for excess or recycle.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Transfer 14 FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 7/08/98
Control Number: B19-98-302			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Continue washing, packaging and transferring FFTF fueled components in FFTF Interim Storage Casks (ISC) to the 400 Area Interim Storage Area (ISA).			
Description of what constitutes completion of this milestone: Fourteen more loaded FFTF ISCs have been transferred to the 400 Area ISA.			
Cost Account Manager W. V. Witherspoon		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Complete the processing of Delayed Neutron Monitor ACN-1			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 8/05/98
Control Number: B19-98-303			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Disassemble the delayed neutron monitor leaker assembly ACN-1 [Multiduct Assembly Carbide Fuel Test consisting of 37 carbide (w/o nitrate) pins with 19 of them helium bonded and 18 sodium bonded]. The identified leaker pins will be encapsulated and placed along with the rest of the pins in IDENT-69 pin containers.			
Description of what constitutes completion of this milestone: All ACN-1 fuel pins are placed in IDENT-69 pin containers.			
Cost Account Manager	Date	Program/Project Manager	Date
W. V. Witherspoon		R. K. Hulvey	
Program Element Manager	Date		
E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Prepare the Advanced Reactors Transition FY 1999 Multi-Year Work Plan final draft			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 8/30/98
Control Number: B17-98-105			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 1999 final draft Multi-Year Work Plan (MYWP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final draft of Advanced Reactors Transition FY 1999 MYWP to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Stabilize the 309 Building Stack and Pits			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/16/98
Control Number: B79-98-901			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: The 309 Building stack and pits which contain smearable contamination will be decontaminated and/or coated, as necessary, to stabilize any residual surface contamination.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of 309 Building stack and pits decontamination activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Shutdown Work Phase 98-3			Date: 9/24/96
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.02			Due Date: 9/30/98
Control Number: B18-98-204			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Perform the mandatory work scope for Work Phase 98-3.			
Description of what constitutes completion of this milestone: All work designated as mandatory for Work Phase 98-3 by the FFTF Management Review Board is complete.			
Cost Account Manager G. J. Boehnke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Transition Building 309 to shutdown status			Date: 9/24/96
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/30/98
Control Number: B79-98-904			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Complete the shutdown transition of Building 309, including preparation of the Surveillance & Maintenance Plan and Transition Criteria Completion Checklist.			
Description of what constitutes completion of this milestone: All physical shutdown actions are complete, all waste has been removed from Building 309, the Environmental Restoration Contractor turnover documentation data package is complete, and the Surveillance and Maintenance Plan is in effect.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Revise the Hanford Site Sodium Management Plan			Date: 9/24/96
Assigned To: D. L. Nielsen			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 9/30/98
Control Number: B69-98-305			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Revise the Sodium Management Plan reflecting input from engineering studies, regulatory compliance, sodium and test loop disposition, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit updated Hanford Site Sodium Management Plan to RL.			
Cost Account Manager C. G. McCargar		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Submit the FFTF End Point Criteria document to RL			Date: 9/24/96
Assigned To: W. A. Dautel			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 10/01/98
Control Number: B17-99-101			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare FFTF End Point Criteria document.			
Description of what constitutes completion of this milestone: Submit the FFTF End Point Criteria document to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Update the Advanced Reactors Transition Resource Loaded Schedule			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 10/31/98
Control Number: B17-99-103			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the Resource Loaded Schedule (RLS) to reflect transitional progress and new guidance from DOE.			
Description of what constitutes completion of this milestone: Submit revised RLS to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Update the FFTF Transition Project Plan			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 11/30/98
Control Number: B17-99-104			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Update the FFTF Transition Project Plan to reflect the current scope, cost, and schedule baseline. This includes the resolution of institutional and technical issues, Tri-Party Agreement milestones, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit revised FFTF Transition Project Plan to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Group 4 systems shutdown			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 2/11/99
Control Number: B19-99-501			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Shut down the Group 4 systems. Note: Once a system has been shut down, one or more of the following conditions will/may exist: <ul style="list-style-type: none"> • Poses no hazards • Requires minimal maintenance • May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc. • Cannot be operated • Causes no locked-in alarms 			
Description of what constitutes completion of this milestone: The Group 4 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Drain the Fuel Storage Facility NaK Loop			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 3/05/99
Control Number: B19-99-403			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the Fuel Storage Facility (FSF) sodium potassium (NaK) loop and transfer the NaK into the FSF storage vessel.			
Description of what constitutes completion of this milestone: The FSF NaK loop is drained to the maximum possible extent, the drained NaK has been mixed with the sodium in the FSF storage vessel and the NaK loop is being maintained under an inert gas blanket.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Prepare the Advanced Reactors Transition FY 2001 Activity Data Sheet final drafts			Date: 9/24/96
Assigned To: D. A. Gantt			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/01/99
Control Number: B17-99-105			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 2001 final draft Activity Date Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final drafts of Advanced Reactors Transition FY 2001 ADS 6640 and 6641 to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Drain the Fuel Storage Facility sodium to the Sodium Storage Facility			Date: 9/24/96
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 4/13/99
Control Number: B19-99-404			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Drain the Fuel Storage Facility (FSF) sodium systems (including the storage vessel and sodium process system) to the Sodium Storage Facility (SSF).			
Description of what constitutes completion of this milestone: The FSF sodium systems are drained to SSF to the maximum extent possible. Sodium residuals are frozen and inerted.			
Cost Account Manager T. M. Burke		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Group 5 systems shutdown			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 4/30/99
Control Number: B19-99-502			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Shut down the Group 5 systems. Note: Once a system has been shut down, one or more of the following conditions will/may exist: <ul style="list-style-type: none"> • Poses no hazards • Requires minimal maintenance • May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc. • Cannot be operated • Causes no locked-in alarms 			
Description of what constitutes completion of this milestone: The systems listed for Group 5 in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Remove the FFTF PCB Transformers X100 and X101			Date: 9/24/96
Assigned To: S. Guttenberg			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 6/30/99
Control Number: B19-99-503			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Following Fuel Storage Facility sodium drain and the shut down of Groups 4 and 5 systems, electrical loads will be shifted/removed from electrical transformers X100 and X101. These transformers, which contain PCB contaminated oil, will then be drained into drums, and the drums and transformer shells removed for disposal.			
Description of what constitutes completion of this milestone: The two transformer shells and the drums containing the PCB contaminated transformer oil have been transported to the Hanford Disposal Facility.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Prepare the Advanced Reactors Transition FY 2000 Multi-Year Work Plan final draft			Date: 9/24/96
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 8/30/99
Control Number: B17-99-106			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☒ Report ☐ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Prepare fiscal year (FY) 2000 final draft Multi-Year Work Plan (MYWP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit final draft of Advanced Reactors Transition FY 2000 MYWP to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION**FY 1997 MYWP****WBS 7.3**

3.3 Milestone Description Sheet (continued)			
Title: Transfer 20 Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area			Date: 9/24/96
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 9/09/99
Control Number: B19-99-304			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☒ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Continue washing, packaging and transferring FFTF fueled components in FFTF Interim Storage Casks (ISC) to the 400 Area Interim Storage Area (ISA).			
Description of what constitutes completion of this milestone: Twenty more loaded ISCs have been transferred to the 400 Area ISA.			
Cost Account Manager W. V. Witherspoon		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

3.3 Milestone Description Sheet (continued)			
Title: Complete the FFTF Fuel Offload			Date: 9/24/96
Assigned To: S. W. Hiller			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 9/09/99
Control Number: B19-99-305			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify) Site Management System monthly report	ADDRESS TO: ☒ DOE-HQ ☐ DOE-RL ☐ Other (specify)
<p>Milestone Description: All of the irradiated and unirradiated fueled components will be transferred from the Interim Decay Storage (IDS) vessel and the Fuel Storage Facility (FSF) to the Interim Examination and Maintenance (IEM) Cell for residual sodium removal, placed in Core Component Containers, transferred to the Cask Loading Station (CLS) for placement into FFTF Interim Storage Casks or Disposable Solid Waste Casks, and then transferred to the 400 Area Interim Storage Area (ISA) or shipped to the Plutonium Finishing Plant Protected Area. The radioactive sodium-bonded fueled components will be placed in FFTF ISCs transferred to the 400 Area ISA. The unirradiated sodium-bonded fuel assembly (currently stored in the Test Assembly Conditioning Station/TACS) will be placed in a suitable container and shipped to the PFP for storage. Note: The sodium-bonded fueled components are expected to remain on the Hanford Site until after December 31, 2000, per Consent Order dated October 17, 1995, and signed by Edward J. Lodge, United States District Judge. This consent order prevents the Idaho National Engineering Laboratory from receiving out-of-state nuclear fuel shipments until the year 2001.</p>			
<p>Description of what constitutes completion of this milestone: All irradiated and unirradiated fueled components (IDENT-69 pin containers and fuel assemblies) have been transferred from the FFTF plant (e.g., IDS, FSF, IEM Cell, TACS) to dry storage.</p>			
Cost Account Manager W. V. Witherspoon		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1997 MYWP

3.4 FY 1997 Milestone Schedule for ADS 6640

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
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- ⊙ Update ART Resource Loaded Schedule
- ⊙ Perform Phase 1 Assessment Of The FFTF S/RID
- ⊙ Submit Sodium Reaction Facility Functional Design Criteria For RL Approval
- ⊙ Update FFTF Transition Project Plan
 - ⊙ Complete FFTF Ident-69 Washing Demonstration
 - ⊙ Complete FFTF Shutdown Work Phase 96-4
 - ⊙ Develop FFTF S/RID Phase 2 Assessment Plan
 - ⊙ Complete FFTF Group 2 Systems Shutdown
 - ⊙ Complete Sodium Storage Facility Readiness Assessment
 - ⊙ Drain FFTF Secondary Sodium To The Sodium Storage Facility
 - ⊙ Transfer 4 FFTF ISCs Containing Fueled Components To 400 Area ISA
 - ⊙ Submit SRF Conceptual Design Report For RL Approval
 - ⊙ Complete FFTF Shutdown Work Phase 97-1
 - ⊙ Issue Report Documenting FFTF Near Full Scale Drill Testing
 - ⊙ Prepare ART FY 1999 Activity Data Sheet Final Drafts
 - ⊙ Complete FFTF Group 3 Systems Shutdown
- Drain FFTF Intermediate Heat Exchangers Secondary Sodium to SSF ⊙
- Complete FFTF Shutdown Work Phase 97-2 ⊙
- Flush And Drain NaK From FFTF Primary Sodium Cold Trap (N-5) And IDS NaK Loops ⊙
- Drain FFTF Heat Transport System Primary Sodium Loops ⊙
- Prepare ART FY 1998 Multi-Year Work Plan Final Draft ⊙
- Ship 5 FFTF DSWCs And 3 FFTF ISCs Containing 53 Fueled Components To PFP Protected Area ⊙
- Drain FFTF Primary Sodium Sampling And Processing System ⊙
- Complete FFTF Shutdown Work Phase 97-3 ⊙

⊙ DOE-RL ⊙ DOE-HQ

3.4-1

MHC-SD-FF-SSP-052 REV 2

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1997 MYWP

3.4 FY 1997 Milestone Schedule for ADSs 6641, 6642 & 6643

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
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ADS 6641

⊗ Move 1720-DR Sodium Tank To The 300 Area

⊗ Complete Transient Test Loop Removal

Clean Small Heat Transfer Loop And Thermal Transient Loop Sodium Tanks ⊗

ADS 6642

⊗ Complete Sodium Storage Facility Construction And Turnover

ADS 6643

⊗ Stabilize PRTR Rupture Loop Annex

⊗ Stabilize PRTR Transfer Waste Holding Tanks

⊗ DOE-RL ⊗ DOE-HQ

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1997 MYWP

4.1 B/A and Cost Baseline Summaries by Year

4.1-A New Budget Authority Summary by Year and ADS ⁽¹⁾							Note: \$ are in Thousands				
RL WBS # ADS # TITLE	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
7.3.1.1 6640 FFTF	39,680	36,239	35,972	27,346	13,627	7,256	20,891	2,485	2,552	2,621	2,692
7.3.1.3 6641 NE LEGACIES	3,724	4,955	3,664	2,292	1,000	317	1,222	1,255	1,288	1,323	1,359
7.3.1.2 6642 FFTF S/D CONSTRUCTION	0	0	17,526	0	0	0	0	0	0	0	0
7.3.1.4 6643 BUILDING 309	4,122	2,900	352	362	373	384	441	453	465	477	490
SUMMARY ⁽²⁾	47,526	44,094	57,514	30,000	15,000	7,957	22,554	4,193	4,305	4,421	4,541
Projected Funding Shortfall	N/A	N/A	(4,881)	(2,012)	(8,198)	(8,901)					

(1) Values FY 1997 through FY 2002 are as submitted in the draft FY 1998 ADSs. These values do not include the costs associated with the FMEF or updated cost estimates for startup and operation of the Sodium Reaction Facility. (See section 4.1-E.)

(2) Summary of programmatic ADSs and new B/A; does not include expense carryover.

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ADVANCED REACTORS TRANSITION **WBS 7.3**

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4.1-B Budget Authority by Year and ADS								Note: \$ are in Thousands				
RL WBS # ADS # TITLE	FUND TYPE	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
7.3.1.1 6640 FFTF	Expense	39,463	36,013	35,739	27,225	13,565	7,256	20,891	2,485	2,552	2,621	2,692
	CENRTC	217	226	233	121	62	0	0	0	0	0	0
	Subtotal New B/A	39,680	36,239	35,972	27,346	13,627	7,256	20,891	2,485	2,552	2,621	2,692
	Expense Carryover (1)	7,631	0	0	0	0	0	0	0	0	0	0
	Total B/A	47,311	36,239	35,972	27,346	13,627	7,256	20,891	2,485	2,552	2,621	2,692
7.3.1.3 6641 NE LEGACIES	Expense/ Total B/A	3,724	4,955	3,664	2,292	1,000	317	1,222	1,254	1,288	1,323	1,359
7.3.1.2 6642 FFTF SHUTDOWN CONSTRUCTION	Expense/ New B/A	0	0	17,526	0	0	0	0	0	0	0	0
	Expense Carryover (1)	1,108	0	0	0	0	0	0	0	0	0	0
	Total B/A	1,108	0	17,526	0	0	0	0	0	0	0	0
7.3.1.4 6643 BUILDING 309	Expense/ Total B/A	4,122	2,900	352	362	373	384	441	453	465	477	490
PROGRAM NEW B/A		47,526	44,094	57,514	30,000	15,000	7,957	22,554	4,193	4,305	4,421	4,541
PROGRAM EXPENSE CARRYOVER		8,739	0	0	0	0	0	0	0	0	0	0
PROGRAM TOTAL B/A ⁽²⁾		56,265	44,094	57,514	30,000	15,000	7,957	22,554	4,193	4,305	4,421	4,541

(1) Includes only expense carryover approved by Site Management Board prior to 10/1/96.

(2) Of the FY 1997 Program Total B/A, \$3,283k is planned to be carried over into FY 1998. Refer to table 4.1-D for details of the expense carryover planning. This provides a B/A of \$52,982k for FY 1997.

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FY 1997 MYWP

4.1-C Cost Baseline by Year and ADS								Note: \$ are in Thousands				
RL WBS # ADS # TITLE	FUND TYPE	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
7.3.1.1 6640 FFTF	Expense	45,030	41,052	37,669	29,865	21,228	15,181	20,891	2,485	2,552	2,621	2,692
	CENRTC	217	226	233	121	62	0	0	0	0	0	0
	Total BCWS/PMB (1)	45,247	41,278	37,902	30,086	21,290	15,181	20,891	2,485	2,552	2,621	2,682
	Expected Carryover (2)		0	0	0	0	0	0	0	0	0	0
	Total	45,247	41,278	37,902	30,086	21,290	15,181	20,891	2,485	2,552	2,621	2,692
7.3.1.3 6641 NE LEGACIES	Expense/ Total BCWS/PMB	3,656	3,095	2,651	1,518	1,493	1,189	1,222	1,254	1,288	1,323	1,359
Operation of only FMEF Buildings												
7.3.1.2 6642 FFTF S/D CONSTRUCTION	Expense/ Total BCWS/PMB	1,017	0	2,505	8,360	10,581	0	0	0	0	0	0
	Expected Carryover (2)											
	Total	1,017	0	2,505	8,360	10,581	0	0	0	0	0	0
7.3.1.4 6643 BUILDING 309	Expense/ Total BCWS/PMB	3,505	2,440	396	407	418	429	441	452	465	477	490
Long term S&M of Building 309												
PROGRAM BCWS/PMB		53,425	46,814	43,454	40,371	33,781	16,799	22,554	4,193	4,305	4,421	4,541
PROGRAM TOTAL		53,425	46,814	43,454	40,371	33,781	16,799	22,554	4,193	4,305	4,421	4,541

(1) Budgeted Cost of Work Scheduled (BCWS) equals Performance Measurement Baseline (PMB).

(2) Includes Expected Expense Carryover Requested by formal change control in FY 1997.

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4.1-D Funds Obligation/Costs Profile			Note: \$ are in Thousands					
	Pre-FY 1995	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
CCC Purchase								
Funds obligated (B/A):		2,059	328					
Actual/Expected Costs (B/O):		932	1,127	328				
ISC Design & Fabricate First 10								
Funds obligated (B/A):	4,662							
Actual/Expected Costs (B/O):	989	2,821	852					
ISC Fabrication (#11 through #30)								
Funds obligated (B/A):		5,555						
Actual/Expected Costs (B/O):			4,448	1,107				
ISC Fabrication (#31 through #52)								
Funds obligated (B/A):		2,458*	3,738	370				
Actual/Expected Costs (B/O):				3,283	3,283			
SSF Construction								
Funds obligated (B/A):		7,885*						
Actual/Expected Costs (B/O):		1,589	5,188	1,108				
SRF Construction						17,526		
Funds obligated (B/A):								
Actual/Expected Costs (B/O):						2,505	8,360	10,581**
Anticipated, Uncosted Obligations at the End of the Fiscal Year:	3,673	16,288	8,739	3,283	0	15,021	6,661**	0

* Cost savings of \$2.5M in the Sodium Storage Facility (SSF) construction activity will be applied to partially fund the procurement of Interim Storage Casks (ISC) #31 through #52.

** The Sodium Reaction Facility (SRF) expected costs exceed the currently requested B/A. Refer to section 4.1-E, Budget Issues.

ADVANCED REACTORS TRANSITION

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4.1-E Budget Issues

This MYWP scope/schedule/budget identifies \$53.4M worth of work scope with only \$52.9M anticipated funds. Anticipated FY 1997 funding is \$47.5M. Approximately \$8.7M in funds will carry over from FY 1996 to fund Interim Storage Cask (ISC) procurements and Sodium Storage Facility construction; \$5.4M will be costed in FY 1997 and the balance committed to ISC costs in FY 1998. Management controls will be used to achieve sufficient efficiencies to offset this funding shortage.

The FY 1998 Activity Date Sheet (ADS) 6642 submittal failed to properly reflect inflation and overhead costs on the Sodium Reaction Facility (SRF) construction project. This results in about \$4M in added costs not identified in the FY 1999 plan presented in the FY 1998 ADS. Operating expenses for the SRF startup, operation, and deactivation have also been reevaluated and determined to be significantly higher than previously projected. These costs impact funding required in ADS 6640 beginning in FY 2001.

The Advanced Reactors Transition Program has been directed to assume programmatic responsibility for operation of the Fuels and Materials Examination Facility (FMEF) effective in FY 1997. Operation and surveillance of the FMEF costs about \$1.7M per year. Of this, \$0.6M is expected to be paid by other programs as rental for space in the building. Because this change occurred about July 1996, the ART portion of the costs, about \$1.1M per year, was not reflected in the FY 1997 and FY 1998 budget requests (ADS 6641).

For DOE planning purposes, the budget profiles reflect the long term surveillance and maintenance (S&M) costs for the 309 Building, the FFTF, and the FMEF. Although these S&M responsibilities will be transferred to the Environmental Restoration Contractor (ERC) when transition is complete, the ERC is not yet reflecting these future costs in its planning.

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4.2 Basis of Estimate

The cost estimates for the Advanced Reactors Transition Program have been developed using the methodology prescribed in the U.S. Department of Energy Office of Waste Management "Cost and Schedule Estimating Guide," Rev. 0, September 1993, Section VI, "Operating Cost Estimating Methods." The scope of the program activities are defined in the following documents:

- WHC-SD-FF-SSP-004 Revision 2, "Fast Flux Test Facility Transition Project Plan"
- WHC-SD-SP-SSP-001 Revision 1, "309 Building Transition Plan"
- WHC-SD-FF-MP -001, "Hanford Site Sodium Management Plan"
(NE Legacy sodium test loops and bulk sodium)
- RCRA Closure Plans

With the scope of the transition activities defined, cost estimates and schedules have been developed. The complexity of developing these estimates for a Resource Loaded Schedule required the involvement of many disciplines covering the entire spectrum of planning, scheduling and estimating. The disciplines that provided input included technical, operational, project management, maintenance, engineering organizations; and supporting staff organizations (e.g., Safety, Health Physics, Quality Assurance, and Security).

As the transition project has progressed, the assumptions and bases for the estimates have been periodically reassessed. In the September 1995 through March 1996 time period, an independent, detailed, outside review and critical analysis were performed at the direction of DOE-RL. This analysis looked at about 80% of the project estimate costs.

The FFTF surveillance and maintenance (S&M) activity estimates were built using a performance based cost estimate for the following reasons: 1) the S&M activities for the project are well defined and understood; and 2) the FFTF's historical and engineering data are well documented and current in the areas of corrective and preventive maintenance, operational surveillances, compliance requirements, and engineering assessments and plans.

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4.2 Basis of Estimate (continued)

The FFTF deactivation/compliance (D/C) activity estimates were built using a blend of preliminary and performance based cost estimates. Engineering and Operations expertise were used to develop shutdown assessments and plans for the plant systems and components, that resulted in the estimates being performance based. However, because many of the evolutions to be conducted are first of a kind, and because some process and technical parameters are only partially defined at this time, the estimates may tend to be preliminary or just approximate. These estimates are refined and updated as additional detailed information and experience becomes available. An exception is the Sodium Storage Facility costs which are based on a completed design and an awarded fixed-price construction contract.

Similarly, the S&M activity cost estimates for the NE Legacies were built using historical data and management assessments of changes required. The D/C activity cost estimates have been developed from using a combination of performance experience (e.g., the cost to remove insulation from a sodium test loop) and preliminary estimates (e.g., the costs associated with cutting up, packaging, and shipping sodium test loop components.)

The PRTR/309 Building cost estimates were initially performed by an outside contractor and documented in WHC-SD-SP-SSP-001 Rev. 1, "309 Building Transition Plan." The S&M activity cost estimate reflects performance based experience. The D/C cost estimate is preliminary given that the extent of contamination is unknown until characterization has been completed in specific areas of the facility.

Cost savings initiatives have also been factored into this Program Plan.

The estimates and their bases are detailed in a separate report generated using the Interactive Estimating Software Tool (IEST).

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ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

4.3 Planned Staffing Profiles in FTEs					Note: Job Family only after 1998						
COCs	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
C000	CRAFTS	41.33	44.36	39.94	23.69	12.98	2.94	0.00	0.00	0.00	0.00
C010	Carpenters	0.16	0.09								
C020	Electricians	9.12	11.14								
C030	Heating Air-Conditioning and Refrig Mechanics (HVAC)	0.00	0.00								
C040	Machinists	1.08	0.97								
C050	Masons	0.00	0.00								
C060	Millwrights	6.06	6.11								
C070	Painters	0.14	0.14								
C080	Plumbers and Pipefitters	7.55	6.38								
C090	Structural and Metal Workers	9.82	8.41								
C100	Vehicle and Mobile Equip Mechanics	0.00	0.00								
C110	Welders	0.64	0.41								
C120	Other Crafts	6.76	10.47								
E000	Engineers	140.61	125.39	113.13	79.33	40.89	6.11	0.00	0.00	0.00	0.00
E010	Chemical Engineers	0.90	0.90								
E020	Civil Engineers	0.00	0.00								
E040	Electrical Engineers	13.17	12.75								
E050	Environmental Engineers	5.67	7.35								
E060	Industrial Engineers	0.02	0.02								
E070	Mechanical Engineers	29.09	23.95								

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ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1997 MYWP

4.3 Planned Staffing Profiles in FTEs (continued)					Note: Job Family only after 1998						
COCs	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
E080	Nuclear Engineers	3.59	2.54								
E090	Petroleum/Mining Engineers	0.00	0.00								
E100	Plant Engineers	48.45	46.26								
E110	Quality Assurance/Control Engineers	4.49	3.54								
E120	Safety Engineers	6.89	4.84								
E130	Other Engineers	28.34	23.24								
E140	Construction Engineers	0.00	0.00								
G000	General Admin, Secretarial & Clerical Support	27.30	27.02	25.86	17.55	9.74	0.20	0.00	0.00	0.00	0.00
G010	Administrative Assistants	2.54	2.54								
G020	Office Clerks (General)	8.25	8.07								
G030	Office Clerks (Special)	5.24	5.24								
G040	Secretaries	11.27	11.17								
G050	Typist and Word Processors	0.00	0.00								
G060	Other General Admin, Secretarial & Clerical Support	0.00	0.00								
L000	Laborers and General Services Workers	16.04	12.97	12.84	12.46	7.33	2.05	0.00	0.00	0.00	0.00
L010	Firefighters	0.00	0.01								
L020	Food Service Workers	0.00	0.00								
L030	Janitors and Cleaners	5.00	5.00								
L040	Laundry Workers	0.00	0.00								
L050	Handlers, Helpers and Laborers (General)	0.98	0.20								

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ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

4.3 Planned Staffing Profiles in FTEs (continued)					Note: Job Family only after 1998						
COCs	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
L060	Handlers, Helpers and Laborers (Specialized)	0.00	0.00								
L070	Light Vehicle Drivers	6.52	5.45								
L080	Security Guards	2.17	1.00								
L090	Other Laborers and General Services Workers	1.36	1.32								
M000	Gen Mgrs, Exec, 1st Line Suprv'sr & Prog/Proj Mgrs	28.40	26.67	25.10	19.96	11.53	0.91	0.00	0.00	0.00	0.00
M010	First line Supervisors	1.09	1.12								
M020	General Managers and Executives	20.47	18.73								
M030	Project and Program Managers	6.84	6.82								
M040	Other Managers	0.00	0.00								
P000	Professional Administrative & Related Occupations	47.61	47.08	46.56	30.53	17.95	1.60	0.00	0.00	0.00	0.00
P010	Accountants and Auditors	3.04	2.38								
P020	Architect	0.00	0.00								
P030	Buyers, Procurement and Contracting Specialists	0.00	0.00								
P040	Communications Specialists	0.00	0.00								
P050	Compliance Inspectors	0.33	0.27								
P060	Computer Systems Analysts	0.00	0.00								
P070	Cost Estimators and Planners and Schedulers	10.18	10.00								
P080	Health Physicists	1.00	2.00								
P090	Industrial Hygienists	0.71	0.64								
P100	Lawyers	0.00	0.00								

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ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

4.3 Planned Staffing Profiles in FTEs (continued)					Note: Job Family only after 1998						
COCs	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
P110	Personnel and Labor Relations Specialists	0.00	0.00								
P120	Physicians	0.00	0.00								
P130	Physician Assist, Nurses & Other Medical Support Occupations	0.00	0.00								
P140	Safeguards and Other Security Specialists	3.05	2.02								
P150	Trainers	9.68	9.64								
P160	Technical Writers and Editors	7.18	7.96								
P170	Other Administrative & Professional Occupations	12.46	12.17								
R000	Operators	52.05	50.80	49.81	39.68	19.41	1.16	0.00	0.00	0.00	0.00
R010	Chemical System Operators	0.00	0.00								
R020	Drillers	0.00	0.00								
R030	Material Moving Equipment Operators	2.13	2.11								
R040	Nuclear Plant Operators	40.73	40.51								
R050	Nuclear Waste Process Operators	0.00	0.00								
R060	Production System Operators	0.00	0.00								
R070	Utilities Operators	7.11	7.11								
R080	Other Operators	2.08	1.07								
S000	Scientists	2.81	2.29	2.29	2.29	1.12	0.00	0.00	0.00	0.00	0.00
S010	Chemists	0.00	0.00								
S020	Environmental Scientists	0.80	0.30								
S030	Geologists	0.00	0.00								

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ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

4.3 Planned Staffing Profiles in FTEs (continued)					Note: Job Family only after 1998						
COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
S040	Life Scientists	0.00	0.00								
S050	Materials Scientists	0.00	0.00								
S060	Mathematicians	0.00	0.00								
S070	Physicists	0.02	0.00								
S080	Social Scientists	0.00	0.00								
S090	Other Scientists	1.00	1.00								
S100	Computer Scientists	0.99	0.99								
T000	Technicians	24.54	20.49	18.75	11.14	6.43	1.30	0.00	0.00	0.00	0.00
T010	Computer Operator/Coders	0.00	0.00								
T020	Drafters	1.41	0.40								
T030	Engineering Technicians	2.62	2.86								
T040	Environmental Sciences Technicians	0.00	0.00								
T050	Health Physics Technicians	12.18	10.50								
T060	Industrial Safety and Health Technicians	0.00	0.00								
T070	Instrument and Control Technicians	6.83	5.40								
T080	Laboratory Technicians	0.00	0.00								
T090	Media Technicians	0.00	0.00								
T100	Survey and Mapping Technicians	0.00	0.00								
T110	Other Technicians	1.50	1.34								
GRAND TOTAL OF JOB FAMILIES		380.69	356.83	334.27	236.64	127.38	16.28	0.00	0.00	0.00	0.00

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ADVANCED REACTORS TRANSITION WBS 7.3

4.4 Subcontractor Staffing Profiles

Subcontractor Exhibit

Dollars In Thousands

Project Hanford Breakdown Structure:

1.07.00.03

Project Hanford Title:

ADVANCED REACTOR
PROGRAMS

Expense

Service Agreement
Technical Service
Clerical

FY 1997

\$ FTEs

\$435	0
\$354	0
\$0	0

FY 1998

\$ FTEs

\$246	0
\$27	0
\$0	0

Construction

\$0 0

\$0 0

Total

\$789 0

\$273 0

Definitions:

Subcontractor is any Hanford Site subcontractor to WHC,

Dollars in Thousands: The base cost of the subcontract, excluding adders (procurement and G&A).

Service Agreement subcontracts obtain special knowledge or skills, typically not materials.

Technical Service subcontracts are primarily offsite and of a highly specialized nature.

Clerical subcontracts are for clerical support.

Construction subcontracts support capital efforts.

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4.5 FY 1997 Building Blocks							Note: \$ are in Thousands
RL WBS No./ FDS WBS No.	ADS	Description	RL Pri 1	Fund Type	FY 1997	CUM FY 1997	Justification of Scope/Impact if not funded.
7.3.1.1.7 & 7.3.1.1.8/ 1B17 & 1B18	6640	FFTF Base (S&M and Program Integration)	1	OP	29,670	29,670	Provides a safe and compliant facility./ Ensures public and worker safety, as well as environmental compliance.
7.3.1.1.8.01/ 2B1801	6640	CENRTC	1	CE	217	29,887	Provides funds for replacement equipment that is necessary to maintain the plant in a safe and compliant manner.
7.3.1.3.8.01/ 1B6801	6641	308 Building Surveillance	1	OP	165	30,052	Provides a safe and compliant facility./ Ensures public and worker safety, as well as environmental compliance.
7.3.1.4.8.00/ 1B7800	6643	309 Building S&M	1	OP	719	30,771	Provides a safe and compliant facility./ Ensures public and worker safety, as well as environmental compliance.
7.3.1.3.8.04/ 1B6804	6641	FNEF	1	OP	1,050	31,821	Provides a safe and compliant facility./ Ensures worker safety and environmental compliance. Protects DOE investment for future use.
7.3.1.3.8.03/ 1B6803	6641	Legacy Occupancy	1	OP	194	32,015	Provides landlord support for facilities partially occupied by DOE NE non-reactor equipment./ Primarily worker protection.
7.3.1.3.9.02/ 1B6902	6641	NE RCRA Closures	3C	OP	88	32,103	Provides environmental management of three NE hazardous waste facilities./ Has EPA and the Washington Department of Ecology involvement.
7.3.1.1.9.03/ 1B1903	6640	Fuel Offload	3C	OP	12,614	44,717	DOE directed FFTF to shutdown./ Must be completed before plant systems can be turned off.
7.3.1.2.9.03/ 1B9903	6642	Project 03-F-031 SSF	3C	OP	1,017	45,734	DOE directed FFTF to shutdown./ Must be completed before plant systems can be turned off.
7.3.1.1.9.04/ 1B1904	6640	Na/Nak Removal & System Shutdown	3C	OP	2,031	47,765	DOE directed FFTF to shutdown./ Must be completed before plant systems can be turned off.
7.3.1.1.9.05/ 1B1905	6640	Support System Shutdown	3C	OP	182	47,947	DOE directed FFTF to shutdown./ Must be completed before plant can be turned over for S&M.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1997 MYWP

4.5 FY 1997 Building Blocks (continued)							Note: \$ are in Thousands
RL WBS No./ FDS WBS No.	ADS	Description	RL Pri ¹	Fund Type	FY 1997	CUM FY 1997	Justification of Scope/Impact if not funded.
7.3.1.1.9.06/ 1B1906	6640	Sodium Reaction Facility (SRF) Engineering	3C	OP	533	48,480	Provides FDC and CDR required by DOE for construction projects./ Failure to develop the FDC and CDR will delay the construction of the SRF and the ultimate disposal of the FFTF sodium.
7.3.1.1.4.9.00/ 1B7900	6643	309 Building D/C	3C	OP	2,786	51,266	DOE declared Building 309 a surplus, hazardous facility./ Failure to perform stabilization work increases the risk of contaminating the environment and harming the health and safety of the workers.
7.3.1.1.3.9.03/ 1B6903	6641	NE Legacies	3C	OP	2,159	53,425	Strategy development and implementation for the disposition of DOE NE non-reactor facilities and associated materials/equipment./ Default on Cooperative Research And Development Agreement and draft TPA milestone MX-92-11T. This could result in the requirement to handle this sodium as waste in accordance with RCRA requirements, which would add to the time and cost required to disposition the sodium.
Total Operating						53,208	
Total Capital						217	
Grand Total						53,425	

¹ "RL Pri" is based on the Hanford Amplified Prioritization Criteria, dated November 20, 1995.

ADVANCED REACTORS TRANSITION

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5.1 Performance Measures

The performance of the Advanced Reactor Transition (ART) program is monitored in five specific areas, which encompass the overall management of the program. These areas are (1) environmental, safety and health (ES&H) compliance; (2) customer relations; (3) technical performance; (4) schedule performance; and (5) cost performance.

ES&H compliance evaluation is an objective evaluation based upon worker injury rates (preventable, Occupational Safety and Health Act (OSHA) recordable lost work days and recordable injuries), number of reportable occurrences, and number and types of surveillance and audit findings.

Customer relations performance is evaluated based on the frequency of interface meetings and contacts between program personnel and RL personnel, maintaining a positive public media image, and meeting customer commitments on schedule.

Technical performance is evaluated on the quality of technical documents submitted to RL, the management of technical issue resolution in support of the project schedule, and response to RL requests for technical support.

Schedule performance is evaluated on the basis of timely completion of approved milestones.

Cost performance is evaluated on the basis of the variance between the budgeted cost of work performed and the actual cost of work performed. The budgeted cost is the initial baseline budget established in this MYWP, as modified by approved changes.

Milestones, which directly support the Mission Direction Document end point objectives, are identified and tracked. A summary of these milestones is given on the following pages and each milestone is fully described on its Milestone Description Sheet in section 3.3.

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5.1 Performance Measures (continued)			
END POINT	OBJECTIVE	MEASURE	FY 1997 MILESTONE
Transition the Fast Flux Test Facility (FFTF) to low-cost, stable deactivated condition by 9/2001 (MDD #87, page B-12)	FS3. Manage the stabilization and disposition of nuclear material, fuel, hazardous materials, and deactivate the Fast Flux Facility (FFTF) and associated systems.	FS3.1 Complete Readiness Assessment for Reactor and Heat Transport System (HTS) sodium drain to Sodium Storage Facility.	Milestone B19-97-401: Complete the Sodium Storage Facility Readiness Assessment
		FS3.2 Complete Reactor and HTS sodium drain.	<p>Milestone B19-97-402: Drain the FFTF secondary sodium to the Sodium Storage Facility</p> <p>Milestone B19-97-404: Drain the FFTF Intermediate Heat Exchange secondary sodium to the Sodium Storage Facility</p> <p>Milestone B19-97-406: Drain the FFTF Heat Transport System primary sodium loops</p> <p>Milestone B19-97-407: Drain the FFTF primary sodium sampling and process systems</p>

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5.1 Performance Measures (continued)			
END POINT	OBJECTIVE	MEASURE	FY 1997 MILESTONE
		FS3.3 Wash, package, and transfer FFTF fuel components to Interim Storage Area in Interim Storage Casks.	<p>Milestone B19-97-301: Complete the FFTF IDENT-69 Washing Demonstration</p> <p>Milestone B19-97-302: Transfer four FFTF Interim Storage Casks containing FFTF fueled components to the 400 Area Interim Storage Area</p> <p>Milestone B19-97-303: Ship five FFTF Disposable Solid Waste Casks and three Interim Storage Casks containing 53 FFTF fueled components to the Plutonium Finishing Plant Protected Area</p>
Complete Deactivation of NE Legacy facilities by 9/2001 (MDD #90, page B-12)	Complete Deactivation of NE Legacy facilities by 9/2001 (MDD #90, page B-12)	Clean and/or dispose of test loop hardware and disposition sodium and sodium-potassium (NaK) alloy	<p>Milestone B69-97-301: Complete the Transient Test Loop removal</p> <p>Milestone B69-97-304: Clean the Small Heat Transfer Loop and the Thermal Transient Loop sodium tanks</p>
Complete the 300 Area Fuels Supply transition by March 31, 1998 (MDD #88, page B-12)	FS2. Complete the 300 Area Fuels Supply transition by March 31, 1998.	Clean-up the nuclear waste, stabilize Building 309 and surrounding area, and close Building 309 on or before September 30, 1998. [Reference PHMC RFP, Part III, Section J, Appendix D, Paragraph C.3.D(5)]	<p>Milestone B79-97-901: Stabilize the PRTR Rupture Loop Annex</p> <p>Milestone B79-97-902: Stabilize the Transfer Waste Holding tanks</p>

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5.2 Project Performance Baseline Schedule

Refer to WHC-SD-FF-SSP-050, "Fast Flux Test Facility Transition Project Resource Loaded Schedule," as currently revised.

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5.3 Cost Baseline by Fund Type and Month for Execution Year									Note: \$ are in Thousands				
FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Expense	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,430	53,208
CENRTC	0	0	0	0	0	0	0	0	0	0	0	217	217
Line Item	0	0	0	0	0	0	0	0	0	0	0	0	0
GPP	0	0	0	0	0	0	0	0	0	0	0	0	0
Total BCWS/PMB (1)	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425
Mgmt Reserve (2)	0	0	0	0	0	0	0	0	0	0	0	0	0
Line Item Contingency (2)	0	0	0	0	0	0	0	0	0	0	0	0	0
Expected Carryover (3)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425
PROGRAM BCWS/PMB	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425
PROGRAM TOTAL	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425

- (1) Budgeted Cost of Work Scheduled (BCWS) equals Performance Measurement Baseline (PMB)
 (2) Management Reserve and Line Item Contingency held by RL.
 (3) Includes expected Expense Carryover requested by formal change control in FY 1997.

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5.4 Cost Baseline by Cost Element and Month for Execution Year									Note: \$ are in Thousands				
COST ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
0 Salaries & Cont of Serv	2,530	2,504	2,589	2,323	2,346	3,199	2,556	2,442	2,824	2,031	2,849	2,522	30,714
1 Material	704	157	185	602	440	721	618	576	703	528	716	788	6,739
2 Purchased Services	54	45	47	88	94	113	110	110	124	43	61	40	931
3 Charges from Other Contractors	169	174	169	54	52	67	40	40	38	20	27	23	873
4 Internal Services	262	233	245	251	245	280	229	234	312	278	389	296	3,255
5 Internal Charges	395	437	870	417	396	520	413	408	492	369	567	585	5,870
6 BCS Richland	8	8	9	8	8	10	10	10	12	7	10	9	108
7 Overheads & Adders	429	410	427	372	373	503	404	393	455	331	455	384	4,936
8 Revenue													
Total BCWS/PMB	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425
PROGRAM BCWS/PMB	4,552	3,967	4,542	4,116	3,953	5,413	4,381	4,213	4,959	3,607	5,076	4,647	53,425

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5.5 Project Funding by WBS							
1997 SITE RL-WBS CODES	1997 WHC-FDS CODES	LEVEL	TITLE	MANAGER	BUDGET VALUES (\$000)		
					PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT
7.3.1	1B	ELEMENT	FFTF	Loika			
7.3.1.1	1B1	END FUNCTION	FFTF (ADS 6640)	Loika	45,247		
7.3.1.1.7	1B17	ACTIVITY	Program Integration	Loika		3,287	
7.3.1.1.7.01	1B1701	CA	Transition Project Office	Hulvey			3,287
7.3.1.1.8	1B18	ACTIVITY	Surveillance & Maintenance	Loika		26,600	
7.3.1.1.8.01	2B1801	CA	CENRTC	Ruge			217
7.3.1.1.8.02	1B1802	CA	System Maintenance	Boehnke			9,275
7.3.1.1.8.03	1B1803	CA	Surveillance and Support Functions	Zimmerman			4,670
7.3.1.1.8.07	1B1807	CA	Operations	Doebler			5,488
7.3.1.1.8.08	1B1808	CA	Consumables	Doebler			2,468
7.3.1.1.8.0D	1B180D	CA	Safeguards And Security	Walton			3,089
7.3.1.1.8.0E	1B180E	CA	300 Area Fuel Oil Inventory Change	Montano			1
7.3.1.1.8.0F	1B180F	CA	Other Materials Inventory Change	Montano			1
7.3.1.1.8.0G	1B180G	CA	Various Inventory Change	Montano			-395
7.3.1.1.8.0J	1B180J	CA	Inventory - Spares	Montano			445
7.3.1.1.8.0L	1B180L	CA	Regulatory Compliance	Dillhoff			1,340

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5.5 Project Funding by WBS (continued)							
1997 SITE RL-WBS CODES	1997 WHC-FDS CODES	LEVEL	TITLE	MANAGER	BUDGET VALUES (\$000)		
					PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT
7.3.1.1.9	1B19	ACTIVITY	Deactivation/Compliance	Loika		15,360	
7.3.1.1.9.03	1B1903	CA	Fuel Offload (except ISCs & CCCs)	Witherspoon			7,896
			ISCs & CCCs				4,718
7.3.1.1.9.04	1B1904	CA	Na/Nak Removal & System Shutdown	Burke			2,031
7.3.1.1.9.05	1B1905	CA	Support System Shutdown	Hoitink			182
7.3.1.1.9.06	1B1906	CA	SRF Engineering	Burke			533
7.3.1.2	1B9	END FUNCTION	FFTF Shutdown Construction (ADS 6642)	Loika	1,017		
7.3.1.2.9	1B99	ACTIVITY	Deactivation/Compliance	Loika		1,017	
7.3.1.2.9.03	1B9903	CA	Project 03-F-031 Sodium Storage Facility	McCargar			1,017
7.3.1.3	1B6	END FUNCTION	NE Legacies (ADS 6641)	Loika	3,656		
7.3.1.3.8	1B68	ACTIVITY	Surveillance & Maintenance	Loika		1,409	
7.3.1.3.8.01	1B6801	CA	308 Building Surveillance	Bitten			165
7.3.1.3.8.03	1B6803	CA	Legacy Occupancy	McCargar			194
7.3.1.3.8.04	1B6804	CA	FMEF	Bitten			1,050
7.3.1.3.9	1B69	ACTIVITY	Deactivation/Compliance	Loika		2,247	
7.3.1.3.9.02	1B6902	CA	NE RCRA Closures	Dillhoff			88

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5.5 Project Funding by WBS (continued)							
1997 SITE RL-WBS CODES	1997 WMC-FDS CODES	LEVEL	TITLE	MANAGER	BUDGET VALUES (\$000)		
					PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT
7.3.1.3.9.03	1B6903	CA	NE Legacies	McCarger			2,159
7.3.1.4	1B7	END FUNCTION	PRTR/309 Building (ADS 6643)	Bitten	3,505		
7.3.1.4.8	1B78	ACTIVITY	Surveillance & Maintenance	Bitten		719	
7.3.1.4.8.00	1B7800	CA	309 Building S&M	Bitten			719
7.3.1.4.9	1B79	ACTIVITY	Deactivation/Compliance	Bitten		2,786	
7.3.1.4.9.00	1B7900	CA	309 Building D/C	Bitten			2,786
GRAND TOTAL					53,425		

\$5.5M of this work scope is funded from FY 1996 carryover of committed funds. In addition to the above work scope, \$3.0M of FY 1996 carryover funds and \$0.3M of FY 1997 funds will be obligated toward purchase of the remaining ISCs. (Refer to section 4.1-D.)

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FY 1997 MYWP

6.1 Stretch Goals

The DOE has assigned three stretch goals to the Advanced Reactors Transition Program (ART) in the Draft Hanford Mission Direction Document. These three goals are:

1. Transition the FFTF to low-cost, stable, deactivated condition by 9/2000 (vs. 3/29/2001 baseline)
2. Complete Nuclear Energy Legacies deactivation by 9/1999 (vs. 9/2001 baseline)
3. Complete PRTR/309 Building Deactivation by 3/1998 (vs. 9/1998 baseline)

Completion of these tasks by the dates in the stretch goals is not provided for in the current baseline of this MYWP. However, preliminary evaluation indicates that each stretch goal is achievable if adequate resources can be applied in a timely fashion. Specific assumptions and requirements for achieving each stretch goal are outlined below.

GOAL: TRANSITION THE FFTF TO LOW-COST, STABLE, DEACTIVATED CONDITION BY 9/2000 (vs. 3/29/2001 baseline)

ASSUMPTIONS/REQUIREMENTS:

It is anticipated that the period of time required for final shutdown of FFTF systems can be accelerated from 18 months after the end of fuel washing to just 12 months. This can be achieved in three ways:

1. Where possible, portions of systems will be shut down early; for example: The removal of PCB transformers, originally planned for the last year and a half of transition, is being accomplished now by rerouting power needs to other sources.
2. Every effort will be made to negotiate end point criteria which minimizes the required work to achieve final shutdown.
3. Improved planning, based on end point criteria and enhanced detail, as ART approaches the final phase of the transition and identifies further efficiencies in the coordination of system shutdown activities; for example: ensuring the advance preparation of shutdown work packages so that the field work is pacing the transition.

ADVANCED REACTORS TRANSITION

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FY 1997 MYWP

6.1 Stretch Goals (continued)

GOAL: COMPLETE NUCLEAR ENERGY LEGACIES DEACTIVATION BY 9/1999 (vs. baseline of 9/2001)

ASSUMPTIONS/REQUIREMENTS:

This activity involves deactivation of the sodium test loops at multiple locations on the Hanford site. This work can be accelerated to an early completion by applying maximum resources in each location and by privatizing a portion of the work. In order to achieve this acceleration, however, five conditions must be satisfied:

1. This activity must be fully funded in FY 1997 through FY 1999:

FY 1997 requirement:	\$2.1M
FY 1998 requirement:	\$2.0M
FY 1999 requirement (approximate):	\$1.5M

2. Favorable contracts must be placed for timely transfer of the bulk sodium to commercial buyers. The most expedient transfer method involves the buyer using railcars for receipt of the sodium, rather than smaller containers.
3. The use of a private contractor can accelerate the cleaning of three large tanks. (Energy and Technology Engineering Center is currently using a private contractor for a similar task.)
4. Dismantling of the CRCTA vessel in Building 337 Highbay must proceed with unanticipated problems.
5. Personnel must be available from performing organizations, currently Process Engineering and ICF KEH construction crafts.

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6.1 Stretch Goals (continued)

GOAL: COMPLETE 309 BUILDING/PRTR DEACTIVATION BY 3/1998 (vs. baseline 9/1998)

ASSUMPTIONS/REQUIREMENTS:

This activity can be accelerated by applying more personnel to parallel tasks in beginning early in FY 1997 and continuing into FY 1998. However, this activity must be fully funded in FY 1997 (\$3.6M) and FY 1998 (\$2.4M) simply to meet the current baseline date. Funding for both years is in question today. To achieve this stretch goal, the following conditions must be satisfied:

1. FY 1997 requirement: \$4.4M
FY 1998 requirement: \$1.7M
2. FY 1997 work must be accelerated to allow early start of planned FY 1998 work on the heating and ventilating stack and filter pits.
3. Personnel must be available from performing organizations, currently crafts from the ICF KEH organization.

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6.2 Cost Savings

FY 1997 MYWP TRANSITION CROSSWALK
FY 1996 BASELINE SUMMARY REPORT
Schedule 1
(\$ in Millions)

Program: ADVANCED REACTORS

Baseline Analysis		1996	1997	1998	1999	TOTAL
(1)	Beginning Baseline - FY 1996 MYPP (9/26/95)	52.6	50.8	46.6	42.1	192.0
(2)	FY 1996 Reported Savings (Schedule 2A and 2B)					
	(2.1) Deleted Work Scope	0.0	0.0	0.0		0.0
	(2.2) Efficiencies	0.0	0.0	0.0	0.0	0.0
(3)	FY 1996 Other C/R Activity (Schedule 2A and 2B)					
	(3.1) Work Scope Deferrals	(0.2)	0.2	0.0	0.0	0.0
	(3.2) Work Scope Transfers	0.0	0.0	0.0	0.0	0.0
	(3.3) Work Scope Additions - Accelerated	3.9	(3.9)	0.0	0.0	0.0
	(3.4) Work Scope Additions - New	2.2	0.6	0.0	0.0	2.8
(4)	Prior Year Carryover Work Scope					0.0
(5)	FY 1996 MYPP Net of FY 1996 C/R Actions	58.5	47.7	46.6	42.1	2.8
(6)	FY 1997 Baseline Planning Actions (Schedule 3)					
	6.1 Deleted Work Scope	(0.4)	(0.9)	(3.1)	(2.1)	(6.5)
	6.2 Work Scope Deferrals	0.0	1.9	0.0	0.0	1.9
	6.3 Work Scope Additions - Accelerated	0.0	0.9	0.0	0.0	0.9
	6.4 Work Scope Additions - New	0.0	3.7	3.5	3.6	10.8
	6.5 Work Scope Transfers	0.0	0.0	(0.3)	(0.2)	(0.5)
	Total 1997 Planning Actions	(0.4)	6.6	0.1	1.3	6.6
(7)	FY 1997 Approved MYWP Baseline	58.1	53.2	46.7	43.4	9.3

FY 1997 MYWP GUIDANCE from RL

ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

6.2 Cost Savings (continued)

FY 1997 MYWP TRANSITION CROSSWALK **Schedule 2A Approved Change Requests** **(\$ in Millions)**

Program: ADVANCED REACTORS

FY 1996 Reported Savings

C/R NUMBER	DESCRIPTION	SAVINGS TYPE	1996	1997	1998	1999	TOTAL
		Deletion					0.0
		Deletion					0.0
		Sub Total Deletions	0.0	0.0	0.0	0.0	0.0
ART-E96-025	Defer Procurement ISC Cont.	Deferral	(0.2)	0.2			0.0
ART-E96-058	Defer S/RIDS Scope	Deferral	0.0	0.0			0.0
		Sub Total Deferrals	(0.2)	0.2	0.0	0.0	0.0
		Transfer					0.0
		Transfer					0.0
		Sub Total Transfers	0.0	0.0	0.0	0.0	0.0
ART-E96-030	ISC Baseline Change	Addition-Accelerated	2.7	(2.7)			0.0
ART-E96-022	NE Legacies Piping Removal	Addition-Accelerated	0.4	(0.4)			0.0
ART-E96-040	309 Building Transition	Addition-Accelerated	0.5	(0.5)			0.0
		Sub Total Accelerated	3.6	(3.6)	0.0	0.0	0.0
ART-E96-060	Project Hanford Contract	Addition-New	0.1				0.1
ART-E96-066	300 Area Pilot Project	Addition-New	0.1				0.1
		Sub Total New	0.2	0.0	0.0	0.0	0.2
<u>Savings Actions</u>							
	ROF Activity	Efficiency					0.0
	Discretionary Savings/Underruns	Efficiency					0.0
		Sub Total Efficiency	0.0	0.0	0.0	0.0	0.0

C/R Number Narrative of Major Savings by Change Request

ADVANCED REACTORS TRANSITION **WBS 7.3**

FY 1997 MYWP

6.2 Cost Savings (continued)

FY 1997 MYWP TRANSITION CROSSWALK

Schedule 2B Pending Change Requests

(\$ in Millions)

Program: ADVANCED REACTORS

FY 1996 Reported Savings

<u>C/R NUMBER</u>	<u>DESCRIPTION</u>	<u>SAVINGS TYPE</u>	1996	1997	1998	1999	TOTAL
		Deletion					0.0
		Deletion					0.0
		Deletion					0.0
		Sub Total Deletions	0.0	0.0	0.0	0.0	0.0
		Deferral					0.0
		Deferral					0.0
		Sub Total Deferrals	0.0	0.0	0.0	0.0	0.0
		Transfer					0.0
		Transfer					0.0
		Sub Total Transfers	0.0	0.0	0.0	0.0	0.0
ART-E96-079	Sodium Storage Facility Scope	Addition-Accelerated	0.3	(0.3)			0.0
		Addition-Accelerated					0.0
		Sub Total Accelerated	0.3	(0.3)	0.0	0.0	0.0
ART-E96-076	FFTF Drain Hold Scope	Addition-New	1.4	0.6			2.0
ART-E85-085	Tritium Production Study	Addition-New	0.6				0.6
		Sub Total New	2.0	0.6	0.0	0.0	2.6

Savings Actions

ROF Activity	Efficiency						0.0
Discretionary Savings/Underruns	Efficiency						0.0
	Sub Total Efficiency	0.0	0.0	0.0	0.0	0.0	0.0

C/R Number Narrative of Major Savings by Change Request

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ADVANCED REACTORS TRANSITION

FY 1997 MYWP

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6.2 Cost Savings (continued)

FY 1997 MYWP TRANSITION CROSSWALK

FY 1997 BASELINE PLANNING ACTIONS

Schedule 3

(\$ in Millions)

Program: ADVANCED REACTORS

FY 1997 Baseline Planning Actions

		1996	1997	1998	1999	TOTAL
(6.1)	Deleted Work Scope					
(1)	NE LEGACY EFFICIENCIES		(\$0.9)	(\$2.1)	(\$2.1)	(\$5.1)
(2)	309 BLDG DEACTIVATION			(\$1.0)		(\$1.0)
(3)						\$0.0
(4)	Planned efficiencies	(\$0.4)				(\$0.4)
	Total	(\$0.4)	(\$0.9)	(\$3.1)	(\$2.1)	(\$6.5)
(6.2)	Work Scope Deferred					
(1)	SODIUM DRAIN		\$0.4			\$0.4
(2)	UNIRRADIATED FUEL OFFLOAD		\$1.5			\$1.5
(3)						\$0.0
(4)						\$0.0
	Total	\$0.0	\$1.9	\$0.0	\$0.0	\$1.9
(6.3)	Work Scope Additions - Accelerated					
(1)	309 BLDG DEACTIVATION		\$0.9			\$0.9
(2)						\$0.0
(3)						\$0.0
(4)						\$0.0
	Total	\$0.0	\$0.9	\$0.0	\$0.0	\$0.9
(6.4)	Work Scope Additions - New					
(1)	FMEF BUILDING S&M		\$1.1	\$1.1	\$1.1	\$3.3
(2)	PATROL ASSESSMENT		\$1.0	\$1.1	\$1.2	\$3.3
(3)	INCREASED OVERHEADS		\$1.6	\$1.3	\$1.3	\$4.2
(4)						\$0.0
	Total	\$0.0	\$3.7	\$3.5	\$3.6	\$10.8
(6.5)	Work Scope Transfers					
(1)	308 BLDG TRANSFER TO ERC			(\$0.3)	(\$0.2)	(\$0.5)
(2)						\$0.0
(3)						\$0.0
	Total	\$0.0	\$0.0	(\$0.3)	(\$0.2)	(\$0.5)

FY 1997 MYWP

ADVANCED REACTORS TRANSITION

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6.3 Project Work Scope Mapping				Comments
Work Scope Title	Identifiers			
	FY 1996	FY 1997		
No changes to report.				

ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

6.4 Glossary

ADS	Activity Data Sheet
ALMS	Auxiliary Liquid Metal System
AMSF	Alkali Metal Storage Facility
ART	Advanced Reactors Transition
ATP	Acceptance Test Procedure
BCWS	Budget Cost of Work Schedule
BEMR	Baseline Environmental Management Report
BPA	Bonneville Power Administration
B/A	Budget Authorization
B/O	Budget Obligation
CA	Cost Account
C/R	Change Report
CAA	Clean Air Act
CENRTC	Capital Equipment Not Related To Construction
CCC	Core Component Container
CCP	Core Component Pot
CDR	Conceptual Design Report
CRADA	Cooperative Research And Development Agreement
CRCTA	Composite Reactor Components Test Activity
CSTF	Containment System Test Facility
CWC	Central Waste Complex
D&D	Decontamination and Decommissioning
D/C	Deactivation/Compliance Actions
DFA	Driver Fuel Assembly
DHX	Dump Heat Exchanger
DNM	Delayed Neutron Monitor
DOE	Department of Energy
DSWC	Disposable Solid Waste Cask
ECN	Engineering Change Request
EDS	Examination and Decontamination Services
EM-40	Office of Environmental Restoration
EPA	Environmental Protection Agency
ERC	Environmental Restoration Contractor
ES&H	Environment, Safety And Health
FDC	Functional Design Criteria
FF or FFTF	Fast Flux Test Facility
FMEF	Fuels and Materials Examination Facility
FO	Field Office (Section 3.2 milestone type)
FONSI	Finding Of No Significant Impact
FSAR	Final Safety Analysis Report
FSF	Fuel Storage Facility
FTE	Full-Time Equivalent
FY	Fiscal Year
GPP	General Plant Project
HAZ	Hazardous Waste
HTS	Heat Transport System
HTS-S	Heat Transport System - South
HQ	Headquarters

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6.4 Glossary (continued)

HVAC	Heating Ventilating and Air Conditioning
IEM	Interim Examination and Maintenance
IEMC	Interim Examination and Maintenance Cell
IDS	Interim Decay Storage
IEST	Interactive Estimating Software Tool
IHX	Intermediate Heat Exchanger
INEL	Idaho National Engineering Laboratory
ISA	Interim Storage Area
ISB	Interim Safety Basis
ISC	Interim Storage Cask
IX	Ion Exchange
JCS	Job Control System
Kg	Kilograms
LIQ	Liquid
LLMW	Low Level Mixed Waste
LLW	Low Level Waste
Kg	Kilograms
LSFF	Large Sodium Fire Facility
M&O	Maintenance And Operation
M&TE	Measuring and Test Equipment
MASF	Maintenance and Storage Facility
MDD	Hanford Mission Direction Document
MTHW	Metric Tons of Heavy Metal
MT-U	Metric Tons - Unranium
MYPP	Multi-Year Program Plan
MYWP	Multi-Year Work Plan
Na	Sodium
NaK	Sodium Potassium Alloy
NE	Nuclear Energy
NEPA	National Environmental Policy Act
NOC	Notice Of Construction
NRF	Neutron Radiography Facility
OTP	Operational Test Procedure
PAL	Prototype Application Loop
PCB	Polychlorinated Biphenyl
PMB	Performance Measurement Baseline
PPF	Plutonium Finishing Plant
PRTR	Plutonium Recycle Test Reactor
PIC	Person In Charge
PR	Plutonium Reactor
QC	Quality Control
RCRA	Resource Conservation and Recovery Act of 1976
RCT	Radiological Control Technician
RL	DOE Richland Operations Office
RLA	Rupture Loop Annex
RLS	Resource Loaded Schedule
S&M	Surveillance and Maintenance
S/D	Shutdown

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SD	Supporting Document
SMB	Site Management Board
SOL	Solid
S/RID	Standards/Requirements Identification Document
SRF	Sodium Reaction Facility
SSF	Sodium Storage Facility
SSP	System Shutdown Plan
TPA	Tri-Party Agreement
TRIGA®	Test Reactor and Isotope Production, General Atomics
TRU	Transuranic
TRUM	Transuranic Mixed
TSD	Treatment, Storage, Disposal
TTL	Thermal Transient Loop
TW	Transfer Waste

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6.5 Distribution - Onsite

35 RL

R. A. Almquist (12)	N2-39
R. C. Budzich	R3-78
K. D. Cameron (2)	A5-58
D. H. Chapin	N2-39
T. H. Davies	N2-39
O. A. Farabee (2)	N2-39
R. G. Hastings	N2-39
P. A. Knollmeyer	A5-11
J. E. Mecca	R3-79
N. D. Moorer (12)	A5-11
S. D. Stites	N2-39

48 WHC

M. A. Baumann	R3-61
E. J. Bitten	N1-41
G. J. Boehnke	N1-88
R. R. Borisch	R3-56
T. M. Burke	N2-01
D. B. Cartmell	R3-50
S. H. Crow	N2-13
T. A. Dillhoff	N2-57
S. V. Doebler	N2-34
D. M. Eder (8)	B3-62
J. I. Forsberg	N2-13
D. A. Gantt (5)	N2-13
S. Guttenberg	N2-53
S. W. Hiller	N2-02
R. K. Hulvey	N2-33
G. W. Jackson	B3-03
D. B. Klos	N2-51
E. F. Loika	N2-51
C. G. McCargar	N2-56
J. R. Montano (2)	N2-51
L. A. Nelsen	N2-50
J. E. Parker	N2-11
G. N. Ruge	N2-54
S. W. Scott	N2-57
J. M. Steffen	N1-47
C. W. Walton	L4-01
W. V. Witherspoon III (3)	N2-13
R. O. Zimmerman	N2-10
Central Files (Orig. + 2)	A3-88
Correspondence Control	A3-01
Transition Project Office (2)	N2-53
Technical Reference Center	N2-12

2 Other

D. E. Olguin	H5-31
L. J. Wertz	H5-20

DISTRIBUTION SHEET

To DISTRIBUTION	From STATION 22	Page 1 of 1
		Date <u>9/27/96</u>
Project Title/Work Order FFTF		EDT N6.
		ECN No. <u>634247</u>

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
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ANALYSIS & SUPPORT (OPS)	N2-57	(1)			
FFTF SAFETY	N2-10	(1)			
ANALYSIS & SUPPORT (MAINTENANCE)	N2-57	(1)			
400 AREA TRAINING	N2-40	(1)			
FFTF QA	N2-11	(1)			
STATION 15 NA WUNDERLICH	E6-12	(1)	ECNs FOR DWGs ONLY		
STATION 22 GC PERKINS	N2-12	(1)	ECN, SD, ROR		
BM WALLACE (AUDITING 400 AREA)	N2-12	(1)	ECN, SD, ROR		
TECHNICAL REFERENCE CENTER					
DOCUMENTS SD, OMM, SDD, FSAR, SPECS, ETC.	N2-12	(1)	SD ONLY		
DRAWINGS	N2-12	(2)			

SH CROW N2-13 (1) ECN, SD, ROR