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Title/Desc:

ADVANCED REACTORS TRANSITION FY1996 MULTI YEAR
PROGRAM PLAN WBS 7.3

ENGINEERING CHANGE NOTICE

Page 1 of 3

1. ECN No 624670

Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ Cancel/Void ☐		3. Originator's Name, Organization, MSIN, and Telephone No. JI Forsberg, Transition Project Office, N2-13, 376-6999		3a. USQ Required? [X] Yes [] No	4. Date 9/22/95
		5. Project Title/No./Work Order No. ADVANCED REACTORS TRANSITION FY 1995 MYPP WBS 7.3		6. Bldg./Sys./Fac. No. NA	7. Approval Designator NA
		8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-FF-SSP-052 Rev. 0		9. Related ECN No(s). NA	10. Related PD No. NA
11a. Modification Work [] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)		11b. Work Package No. NA	11c. Modification Work Complete NA _____ Cog. Engineer Signature & Date		11d. Restored to Original Condition (Temp. or Standby ECN only) NA _____ Cog. Engineer Signature & Date
12. Description of Change FY 1995 ADVANCED REACTORS TRANSITION MYPP WBS 7.3 has been revised and reissued as FY 1996 ADVANCED REACTORS TRANSITION MYPP WBS 7.3 Revision 1.					
13a. Justification (mark one) Criteria Change [X] Design Improvement [] Environmental [] Facility Deactivation [] As-Found [] Facilitate Const [] Const. Error/Omission [] Design Error/Omission []					
13b. Justification Details WHC-SD-FF-SSP-052 Revision 0, EDT 606207, has been updated to reflect new guidance from DOE 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.					
14. Distribution (include name, MSIN, and no. of copies) The distribution is shown on page 5-1 (5. Distribution) at the very end of attached FY 1996 ADVANCED REACTORS TRANSITION MYPP WBS 7.3 Revision 1.				RELEASE STAMP OFFICIAL RELEASE BY WHC DATE SEP 26 1995 Sta 22	

ENGINEERING CHANGE NOTICE

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1. ECN (use no. from pg. 1)

624670

15. Design Verification Required

☐ Yes
☒ No

16. Cost Impact

ENGINEERING

 Additional ☐ \$
 Savings ☐ \$

CONSTRUCTION

 Additional ☐ \$
 Savings ☐ \$

17. Schedule Impact (days)

 Improvement ☐
 Delay ☐

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	☐	Seismic/Stress Analysis	☐	Tank Calibration Manual	☐
Functional Design Criteria	☐	Stress/Design Report	☐	Health Physics Procedure	☐
Operating Specification	☐	Interface Control Drawing	☐	Spares Multiple Unit Listing	☐
Criticality Specification	☐	Calibration Procedure	☐	Test Procedures/Specification	☐
Conceptual Design Report	☐	Installation Procedure	☐	Component Index	☐
Equipment Spec.	☐	Maintenance Procedure	☐	ASME Coded Item	☐
Const. Spec.	☐	Engineering Procedure	☐	Human Factor Consideration	☐
Procurement Spec.	☐	Operating Instruction	☐	Computer Software	☐
Vendor Information	☐	Operating Procedure	☐	Electric Circuit Schedule	☐
OM Manual	☐	Operational Safety Requirement	☐	ICRS Procedure	☐
FSAR/SAR	☐	IEFD Drawing	☐	Process Control Manual/Plan	☐
Safety Equipment List	☐	Cell Arrangement Drawing	☐	Process Flow Chart	☐
Radiation Work Permit	☐	Essential Material Specification	☐	Purchase Requisition	☐
Environmental Impact Statement	☐	Fac. Proc. Samp. Schedule	☐	Tickler File	☐
Environmental Report	☐	Inspection Plan	☐		☐
Environmental Permit	☐	Inventory Adjustment Request	☐		☐

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision

Document Number/Revision

Document Number/Revision

NONE

20. Approvals

Signature

Date

Signature

Date

OPERATIONS AND ENGINEERING

Cog. Eng. SH Crow

SH Crow

9/22/95

Cog. Mgr. RK Hulvey

RK Hulvey

9/22/95

QA

Safety

Environ.

Other

EF Loika

EF Loika

9/22/95

JR Montano

JR Montano

9/22/95

JM Steffen

JM Steffen

9/22/95

ARCHITECT-ENGINEER

PE

QA

Safety

Design

Environ.

Other

DEPARTMENT OF ENERGY

 Signature or a Control Number that
 tracks the Approval Signature

ADDITIONAL

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RELEASE AUTHORIZATION

Document Number: WHC-SD-FF-SSP-052, Rev. 1

Document Title: Advanced Reactors Transition Fiscal Year 1996 Multi-Year Program Plan WBS 7.3

Release Date: September 21, 1995

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

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:



T.L. Ontiveros

September 21, 1995

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SUPPORTING DOCUMENT

1. Total Pages 183

2. Title

Advanced Reactors Transition Fiscal Year 1996
Multi-Year Program Plan WBS 7.3

3. Number

WHC-SD-FF-SSP-052

4. Rev No.

1

5. Key Words

Multi-Year, Program Plan, WBS 7.3, Advanced
Reactors, 1996

6. Author

Name: R. K. Hulvey

Russell K Hulvey
Signature

Organization/Charge Code 18300/B171A

7. Abstract

This document describes in detail the work to be accomplished in FY 1996 and the out years for the Advanced Reactors Transition (WBS 7.3). This document describes specific milestones and funding profiles. Based upon the Fiscal Year 1996 Multi-Year Program Plan (MYPP), DOE will provide authorization to perform the work outlined in the FY 1996 MYPP.

8. RELEASE STAMP

OFFICIAL RELEASE *4388*
BY WHC
DATE **SEP 26 1995**
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Page 1

Advanced Reactors Transition Fiscal Year 1996 Multi-Year Program Plan WBS 7.3

(6) Cog. Mgr. Date

R. K. Hulvey

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MYPP Approval Sheet

ADVANCED REACTORS TRANSITION FY 1996 MYPP WBS 7.3

RL Program Manager



O. A. Farabee

9/21/95
Date

Assistant Manager-Contracting Officer's Representative



L. L. Piper

9/26/95
Date

WHC Contractor



R. J. Bliss

9/26/95
Date

Director-FFTF Transition Project



E. F. Loika

9/22/95
Date

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ADVANCED REACTORS TRANSITION

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1.A. Program Mission

Following direction given by the Department of Energy (DOE) Headquarters (HQ) on December 15, 1993, Advanced Reactors Transition (ART) is continuing the transitioning of the Fast Flux Test Facility (FFTF) to a radiologically and industrially safe shutdown condition. The controlling document for this transition is the Advanced Reactors Transition Multi-Year Program Plan. The two main supporting documents are the FFTF Transition Project Plan and the FFTF Transition Project Resource Loaded Schedule (RLS). During the transitional period to achieve the shutdown end-state, the facilities and systems will continue to be 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 will be deactivated and transferred to the Environmental Restoration Contractor (ERC) for final disposition, as appropriate.

The ART program has interfaces with other Hanford programs. Significant relationships involve the storage of the fueled components at the Plutonium Finishing Plant (PFP) and an evaluation by the Tank Waste Remediation System (TWRS) affecting the final disposition of the FFTF sodium.

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1.B. Program Strategy

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 FFTF Transition Project RLS identifies resources required and schedules to complete the deactivation activities and bring FFTF to a safe shutdown state. The FFTF Transition Project 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 intent of the FFTF Transition Project is to comply with DOE requirements as described in the FFTF Transition Project Plan. 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 was 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). 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, minimal lighting and ventilation, and some fire protection equipment to support periodic surveillance. However, final specific criteria for turnover to the ERC have not yet been defined. A key issue is the disposition of Sodium-Potassium (NaK) residuals remaining following the drain activities. Detailed discussions with the ERC will be conducted to develop these criteria.

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1.B. Program Strategy (continued)

In addition to the FFTF Transition Project, the ART program is responsible for the S&M of the 308 Building which is in a safe shutdown state, 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 (TRIGA¹) fuel, and the disposition of NE Legacy facilities at Hanford.

¹ TRIGA is a Registered Trademark of General Atomics.

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1.B.1. Technical Functions/Requirements

The technical functions and requirements are addressed in detail in these reference documents:

- WHC-SD-SSP-004 Rev. 1, "Fast Flux Test Facility Transition Project Plan," dated November 15, 1994.
- WHC-SD-FF-SSP-050 Rev. 1, "Fast Flux Test Facility Transition Project Resource Loaded Schedule," dated October 31, 1994.
- WHC-SD-FF-MP-001 Rev. 0, "Hanford Site Sodium Management Plan," dated April 26, 1994.
- WHC-SD-FL-SSP-001 Rev. 1, "308 Building Shutdown Plan," dated September 13, 1993.
- WHC-SD-SP-SSP-001 Rev. 1, "309 Building Transition Plan," dated April 28, 1995.
- Activity Data Sheets 6640, 6641, 6642, & 6643, dated March 28, 1995.

The main goals to be achieved in conjunction with transition to shutdown are:

- Removing fueled components from the Interim Decay Storage (IDS) and Fuel Storage Facility (FSF) and washing (sodium removal) them in the Interim Examination and Maintenance Cell (IEMC);
- Inserting the washed fueled components (up to seven) in Core Component Containers (CCC) and then placing the CCCs in Interim Storage Casks (ISC). Of the approximately 372 fueled components that will be placed in 55 ISCs, five ISCs will contain 32 unirradiated driver fuel assemblies (DFA) and two ISCs will contain a total of 13 irradiated fuel components (10 DFAs and 3 IDENT-69 pin containers) that will be shipped to the PFP Protected Area because of their safeguards category. The remainder will be transferred to the 400 Area Interim Storage Area (ISA);
- Shipping the sodium bonded, metal fuel, assemblies to Idaho National Engineering Laboratory (INEL);
- Constructing the SSF;
- Draining the sodium from FFTF into the SSF;

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1.B.1. Technical Functions/Requirements (continued)

- Mixing the NaK with FFTF sodium prior to transferring the sodium to the SSF;
- Minimizing the sodium (Na) and NaK residuals;
- Deactivating the FFTF auxiliary systems;
- Maintaining FFTF and the Maintenance and Storage Facility (MASF) in a safe condition through fiscal year (FY) 2001 by S&M activities;
- Maintaining the 308 Building in a safe condition through October 1996 by S&M activities;
- Preparing and shipping the TRIGA® reactor fuel to the 400 Area ISA;
- Turning the 308 Building over to the ERC by October 1996;
- Maintaining the 309 Building during which time surface contamination is removed or stabilized to allow shutdown of active support systems; removing and dispositioning all excess materials, components, and any radiological or hazardous waste from the facility; preparing and approving safety documentation consistent with shutdown needs and state permitting requirements.
- Turning the 309 Building over to the ERC;
- Dispositioning the NE Legacy sodium and facilities; and
- Most importantly, conducting all activities in accordance with applicable DOE Orders, as well as local, State and Federal laws.

TPA milestones have been established by DOE Richland Operations Office (RL), EPA, and the State of Washington Department of Ecology (WA-Ecology) to support the above requirements.

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1.B.2. Program Objectives

- 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.
- Complete disposition of the TRIGA® fuel in FY-1996.
- 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).

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1.B.3. Planning Assumptions

- The FFTF Transition Project Plan and the RLS address the main DOE goal to achieve shutdown in approximately five years. Although the RLS shows shutdown duration longer than five years, this longer duration is driven by logic associated with shutdown of the electrical distribution systems. The Westinghouse Hanford Company (WHC) believes that this logic can be revised and the time shortened after the negotiation of end point criteria. Further, this FY 1996 Multi-Year Program Plan (MYPP) reflects an accelerated start of the SSF which will advance the drain of the primary sodium from the FFTF by six months with respect to the schedule shown in the FY 1995 MYPP. This acceleration will result in early completion of two of the TPA milestones that are listed in table 2.B.2.
- The fuel storage vessels will be defueled. The fueled components will be washed, packaged and stored in the 400 Area ISA and the PFP Protected Area. The sodium bonded metal fuel will be washed and shipped to INEL.
- Sodium from the reactor, Heat Transport System (HTS), IDS, FSF, and Auxiliary Liquid Metal System (ALMS) will be drained and stored in tanks.
- Environmental monitoring and surveillances, and waste assessments will continue to support FFTF during its transition to shutdown.
- Disposition of the NE Legacy items will continue consistent with WHC-SD-FF-MP-001, "Hanford Site Sodium Management Plan," dated April 26, 1994, and subsequent revisions.
- The Program planning assumes timely resolution of the issue of NaK residuals remaining in FFTF after draining the NaK systems. Detailed discussions will be held with the ERC to develop criteria to resolve these issues.
- The PRTR/309 Building Rupture Loop Annex (RLA) Ion Exchange (IX) vault will be characterized. Low Level Waste and Transuranic Waste Plans will be prepared and approved. Waste from the RLA IX vault will be disposed of, as appropriate.

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1.B.4. Program Constraints

- Insufficient funding will delay the accomplishment of milestones.
- Failure to provide timely reviews of documentation will delay the transition to shutdown.
- Disposition of the sodium will be accomplished in time to meet TPA Milestone M-81-02-T01, dated June 30, 1998, at which time an evaluation will have been completed and documented by TWRS to determine the need and acceptable product form for the tank sludge pretreatment process (i.e., caustic washing). Another evaluation will address other conversion options for disposal if the product use for TWRS is not viable.
- Compliance with all appropriate DOE Orders will continue during the transition to shutdown. During the deactivation activities, plant conditions will change, affecting the applicability of a number of the DOE Orders. Compliance in a cost effective manner will be maintained using an aggressive application of program equivalencies, waivers and exemptions. As agreed to and as required, FFTF will perform both administrative and adherence assessments of the S/RIDs.
- Full funding is required for the 308 Building S&M and D/C to provide a safe shutdown state and to disposition the TRIGA® fuel. If full funding is not authorized, only S&M will take place in FY 1996.
- Full funding is required for the PRTR/309 Building S&M, as well as deactivation activities. If full funding is not authorized, only S&M will take place in FY 1996.

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2.A.1. Technical Documents Tree & Products Structure					
WORK BREAKDOWN STRUCTURE				SYSTEMS ENGINEERING FUNCTION	PRODUCT DESCRIPTION
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE		
7.3.1.1.1 1B1			FFTF (ADS 6640)	4.1.1.4	Deactivated FFTF
	7.3.1.1.7 1B17		Program Integration		
		7.3.1.1.7.01 1B1701	Transition Project Office	4.1.1.4.2.2 4.1.1.4.2.3 4.1.1.4.1.3.1	Transition Plan; Endpoint Criteria; Activity Data Sheets (ADS); MYPP; and Final Safety Analysis Report (FSAR)
	7.3.1.1.8 1B18		Surveillance & Maintenance		
		7.3.1.1.8.01 2B1801	Capital Equipment Not Related To Construction (CENRTC)	2.4.1 4.1.1.4.1.2.3	CENRTC Equipment
		7.3.1.1.8.07 1B1807	Operations	4.1.1.4.1.1.1 4.1.1.4.1.1.8 4.1.1.4.1.3.1 4.1.1.4.1.3.2 4.1.1.4.1.3.4	Safe plant operations; operations and maintenance procedures
		7.3.1.1.8.08 1B1808	Consumables	2.0 5.0 Serves: 4.1.1.4.1.1	Electricity, fuel oil, and inert gases
		7.3.1.1.8.09 1B1809	Support Functions	3.0 4.1.1.4.1.1.1 4.1.1.4.1.1.2 4.1.1.4.1.4 4.1.1.4.1.5	Independent oversight; tours; trained personnel; Plant Policy Manual; radiological monitoring
		7.3.1.1.8.10 1B1810	Engineering	2.0 4.1.1.4.1.3	Plant maintenance work packages; spare parts procurements

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2.A.1. Technical Documents Tree & Products Structure (continued)				
WORK BREAKDOWN STRUCTURE				
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE	SYSTEMS ENGINEERING FUNCTION
		7.3.1.1.8.11 1B1811	Maintenance	4.1.1.4.1.1.3 4.1.1.4.1.1.4 4.1.1.4.1.1.5 4.1.1.4.1.2 4.1.1.4.1.3.4 4.1.1.4.1.4 4.1.1.4.1.5.2
		7.3.1.1.8.13 1B1813	Safeguards And Security	Safeguards and security
		7.3.1.1.8.14 1B1814	300 Area Fuel Oil Inventory Change	Accounting function only
		7.3.1.1.8.15 1B1815	Other Materials Inventory Change	Accounting function only
		7.3.1.1.8.16 1B1816	Various Inventory Change	Spare parts and equipment inventories
		7.3.1.1.8.18 1B1818	Inventory - Spares	Double entry accounting function
		7.3.1.1.8.20 1B1820	Regulatory Compliance	Dispositioned hazardous and radioactive waste; preparation of occurrence reports; environmental compliance documentation; environmental permits
	7.3.1.1.9 1B19		Deactivation/Compliance	
		7.3.1.1.9.02 1B1902	Transition Support Functions	Approval of engineering work packages for deactivation activities; public involvement; independent oversight; S/RID document; radiological monitoring and characterization

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2.A.1. Technical Documents Tree & Products Structure (continued)				
WORK BREAKDOWN STRUCTURE				
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE	PRODUCT DESCRIPTION
		7.3.1.1.9.03 1B1903	Fuel Offload	Dispositioned fueled components: • Spent nuclear fuel (SNF) stored in ISCs in 400 Area ISA • Category IC, IIC & IIID special nuclear material (SNM) stored in ISCs at PPP • Sodium bonded fuel shipped to INEL
		7.3.1.1.9.04 1B1904	Na/Nak Removal & System Shutdown	Drained Na and NaK systems; inerted residuals; and stored bulk Na/Nak
		7.3.1.1.9.05 1B1905	Support System Shutdown	Shutdown systems; systems modified for long term S&M; resources dispositioned; hazardous materials dispositioned
7.3.1.2 1B9			FFTF Shutdown Construction (ADS 6642)	
	7.3.1.2.9 1B99		Deactivation/Compliance	
		7.3.1.2.9.03 1B9903	Project 03-F-031 Sodium Storage Facility	SSF
7.3.1.3 1B6			Nuclear Energy Legacies (ADS 6641)	
	7.3.1.3.8 1B68		Surveillance & Maintenance	

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2.A.1.1. Technical Documents Tree & Products Structure					PRODUCT DESCRIPTION
WORK BREAKDOWN STRUCTURE				SYSTEMS ENGINEERING FUNCTION	
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE		
		7.3.1.3.8.01 1B6801	308 Building Surveillance	4.1.1.5.1.1.2 4.1.1.5.1.1.3 4.1.1.5.1.1.4 4.1.1.5.1.1.5 4.1.1.5.1.1.7 4.1.1.5.1.1.8 4.1.1.5.1.3 4.1.1.5.1.4 4.1.1.5.1.5	Safe and compliant facility; radiological monitoring; trained personnel; maintained documentation; and independent oversight
		7.3.1.3.8.02 1B6802	308 Building Operations	4.1.1.5.1.1 4.1.1.5.1.2 4.1.1.5.3	Safe and compliant facility; dispositioned waste; equipment maintained, repaired/replaced, and operational status verified; stabilized and reconfigured facility
		7.3.1.3.8.03 1B6803	Legacy Occupancy	Not covered.	Safe, compliant buildings
	7.3.1.3.9 1B69		Deactivation/Compliance		
		7.3.1.3.9.01 1B6901	TRIGA® Fuel Disposition	4.1.1.5.3.1.1 4.1.1.5.3.1.2 4.1.1.5.3.1.4 4.1.1.5.3.1.5 4.1.1.5.3.2 4.1.1.5.3.3 4.1.1.5.3.4 4.1.1.5.4	Dispositioned SNF; dispositioned SNM; dispositioned nuclear fuel; deactivated facility (308 Building)
		7.3.1.3.9.02 1B6902	NE RCRA Closures	Not covered.	Clean and closed former sodium waste storage buildings
		7.3.1.3.9.03 1B6903	NE Legacies	Not covered.	Sodium dispositioned; test loops dismantled and dispositioned
7.3.1.4 1B7			PRTR/309 Building (ADS 6643)		

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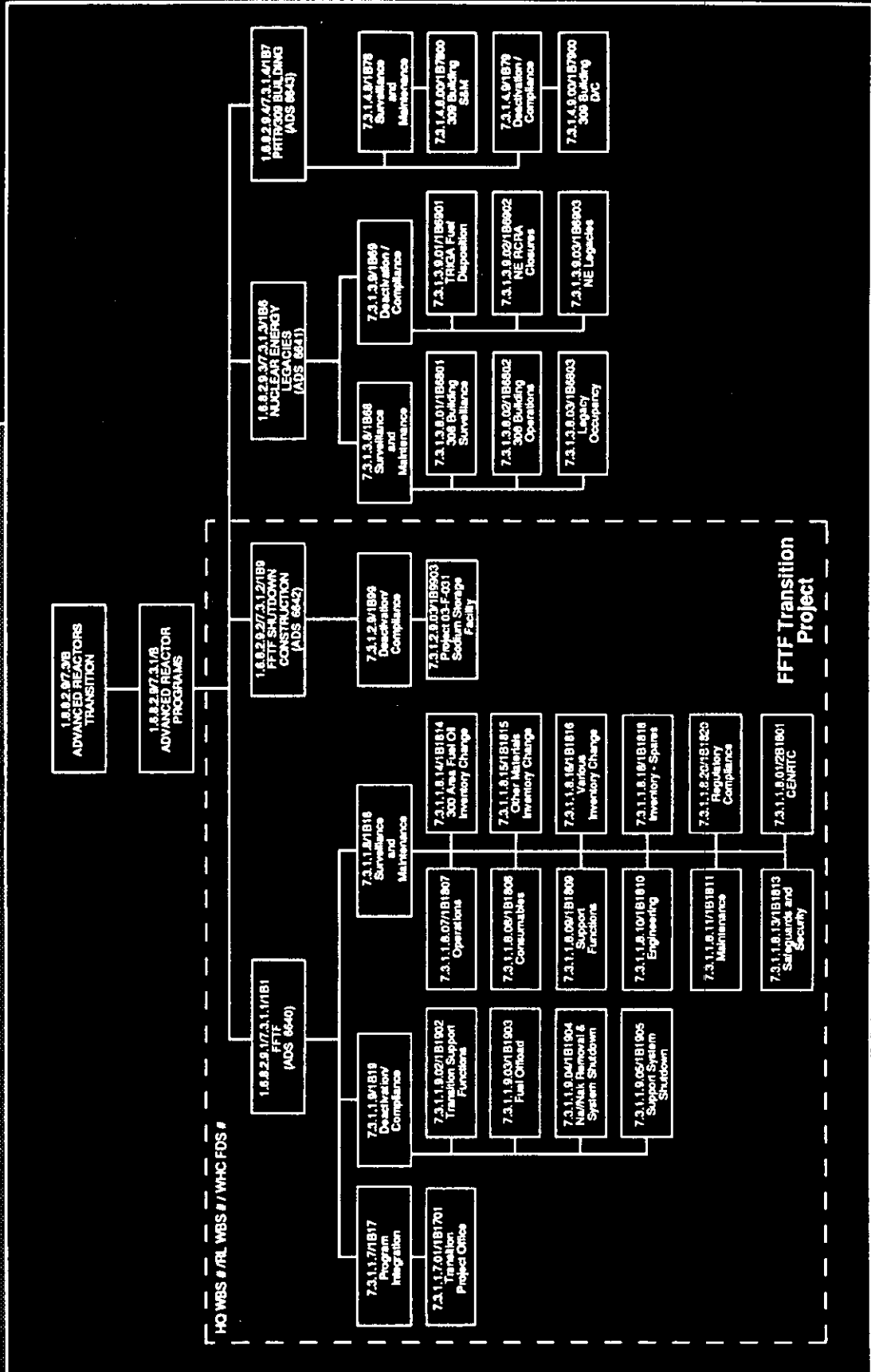
2.A.1. Technical Documents Tree & Products Structure (continued)					
WORK BREAKDOWN STRUCTURE				SYSTEMS ENGINEERING FUNCTION	PRODUCT DESCRIPTION
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE		
	7.3.1.4.8 1878		Surveillance & Maintenance		
		7.3.1.4.8.00 187800	309 Building S&M	4.1.2.2.1 4.1.2.2.2.2.4 4.1.2.2.3.4.2 4.1.2.2.3.4.3 5.0	Safe and compliant facility; trained personnel; radiological surveys; maintained documentation; equipment maintained, repaired/replaced, and operational status verified; long-term S&M plans
	7.3.1.4.9 1879		Deactivation/Compliance		
		7.3.1.4.9.00 187900	309 Building D/C	4.1.2.2.1.3.3 4.1.2.2.1.3.4 4.1.2.2.1.3.5 4.1.2.2.1.4 4.1.2.2.2 4.1.2.2.3	Facility stabilized for long-term lay-up while awaiting D&D; turn-over documentation; deactivation and turn-over plans; dispositioned resources and wastes

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2.A.2. Work Breakdown Structure



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2.A.3. WBS Dictionary**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT 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.			

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WMC	2 DATE 8/31/95	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.	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.		

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 three main areas: 1) 308 Building; 2) NE Resource Conservation and Recovery Act (RCRA) Closures; and 3) NE Legacies. The 308 Building workscope includes the surveillance and operation of the facility, TRIGA® fuel disposition and cleanout of the building. Surveillance and operations provide for administration and support services to operate and maintain the facility and TRIGA® fuel storage in accordance with approved DOE Orders and WHC procedures and the environmental health physics and safety surveillance requirements until it is accepted by a different DOE Program. Included are periodic monitoring and sampling of the building internal environment, HPT coverage, building administration, hazardous materials specialist support, work control administration, maintenance, operations and property management. The TRIGA® fuel disposition involves the activities necessary to prepare and move the fuel from TRIGA® pool storage to an interim storage area and to provide final cleanup of the TRIGA® area following fuel removal. Following TRIGA® fuel removal and final cleanout, the facility will be turned over to another organization for appropriate disposition. NE RCRA Closures provides for the environmental management of three NE hazardous waste facilities. This sub-activity addresses the base program responsibilities associated with these three NE facilities that currently manage, or have managed, hazardous materials. The three 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 337 Highbay basement and buildings 335 and 3718M.			

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	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 workscope includes the surveillance and operation of the facility that are subject to DOE Orders and federal codes for radiological facilities. The deactivation and compliance 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&M condition for turnover to an ERC for long-term interim surveillance preparatory to a final D&D phase.		

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	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 within WHC and with DOE; and other special activities, as needed. Manage reserved funds required to pay for accomplishment of Performed Based Incentive 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, resource 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. 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 MYPP, and preparation of required Hanford Site Management System documents.		

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 EX-70	
12 ELEMENT TASK DESCRIPTION A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT 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 WHC to cover equipment emergencies. Also, CENRTC funds are needed for the purchase of new equipment to assure compliance with new regulations and requirements.			

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT S&M Operations activities include: Operate the FFTF systems, MASF, IEMC, and FSF in a safe, efficient, and environmentally safe manner in support of FFTF transition activities; maintain high quality, reliable operations; maintain high quality administrative and operating procedures; provide review and approval support for S&M work package, design changes, and review committees; administer FFTF Emergency Preparedness overview and support; and administer the FFTF Preventative Maintenance and Instrument Calibration program.			

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	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 Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. 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.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.09		5 WBS ELEMENT TITLE S&M/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 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 Support Functions include plant activities such as: plan and coordinate audits, technical review and special projects; administer the FFTF security program, Management Overview Program, FFTF tours, Plant Policy Manual and Unresolved Safety Question (USQ) Performance Indicators; provide training and certification activities for operations, maintenance, and support personnel. Provide direct support activities, oversight, and review in the areas of Nuclear Safety, Health Physics, Industrial Safety, and Fire Protection, as related to surveillance and maintenance work package reviews, design changes, and review committees.			

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.10	5 WBS ELEMENT TITLE S&M/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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT The technical content covers Nuclear, Mechanical, Electrical and Industrial Engineering and Management for the baseline maintenance of FFTF and related facilities. S&M Engineering activities include: engineering services to ensure safe and reliable operation of FFTF, FSF, and MASF systems and equipment. Their activities also include: maintaining in-service inspection, field direction of plant maintenance, providing technical direction for supporting MASF missions, providing for materials and spare parts receipt, storage, and issuance.		

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2.A.3. WBS Dictionary (continued)

WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.11	5 WBS ELEMENT TITLE S&M/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 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 Maintenance organization provides: work control and day-to-day planning and scheduling services; trained, qualified craft personnel to perform corrective and preventive maintenance activities in support of FFTF; person-in-charge (PIC) support to plant maintenance activities; manages and performs self assessment surveys on all assigned shop facilities, equipment, and personnel to assure efficiency and proper workmanship standards; prepares Shop Maintenance procedures and Workmanship Standards; develops budgets and track expenditures for all functional duties; provides customer interface as required; determines training requirements for all maintenance staff, schedules classes and maintains training records; ensures staff understands and complies with all safety and security requirements, new procedure requirements, and implementation of industrial codes and standards; implements and complies with the WHC/HAMTC Labor Agreement; provides material requisition, receipt, storage and issue services in support of plant maintenance activities; acts as initial Plant Forces Work Review agent for the facility; maintains payroll, attendance and overtime records for the staff; implements procedures necessary to control all government facilities and property in the maintenance organization; provides technical review of all maintenance work involving welding; provides water purveyor oversight for the 400 Area; manages the hoisting and rigging activities at the facility including: inspecting and maintaining all rigging equipment, reviewing critical lift procedures, providing rigging PICs for rigging activities, conducting On the Job Training (OJT) for facility cranes and rigging equipment and ensuring all hoisting and rigging activities are in compliance with the DOE Rigging Manual; manages the Measuring and Test Equipment (M&TE), tools, and spare parts program activities including: M&TE calibration recall program, M&TE discrepancy tracking, equipment issue, and shop stock inventory; provides landscaping, building maintenance, and general housekeeping services to the facility; and provides transportation support for the movement of equipment and materials.		

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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.13	5 WBS ELEMENT TITLE S&M/Safeguards and Security	
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 S&M Safeguards and Security organization provides: an effective patrol force, physical security and associated equipment, safeguards oversight and services, and annual security assessments.		

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2.A.3. WBS Dictionary (continued)

WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.14	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.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.15	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 Change - 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.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.16		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 Change - 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.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.18	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.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.8.20	5 WBS ELEMENT TITLE S&M/Regulatory Compliance	
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 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, administers the "Hazards Communications" program; maintains satellite waste collection areas for maintenance waste streams.		

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.02		5 WBS ELEMENT TITLE Transition 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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Plan and direct support activities, oversight, and review in the areas of Nuclear Safety, Health Physics, Industrial Safety, Fire Protection, and Environmental Protection. Communicate with state and federal regulators, and external oversight organizations. Assess and evaluate compliance with DOE Orders and the FFTF FSAR. Perform S/RID administrative and adherence assessments.			

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.03		5 WBS ELEMENT TITLE 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; preparation and approval of detailed refueling plans and IEMC work plans; perform remaining criticality evaluations; conduct operational readiness assessments; operate and maintain the refueling equipment; provide engineering 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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2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.04	5 WBS ELEMENT TITLE 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, field performance; evaluate and determine optimum Na/NaK removal process, determine and conduct residual sodium treatment, provide engineering interface for sodium reaction facility design activities and define the project by performing engineering studies and completing required documentation such as short form data sheets and functional design criteria.		

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.1.9.05		5 WBS ELEMENT TITLE 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 FFTF sodium and support systems such as nuclear instrumentation, dump heat exchangers (DHX) fuel oil and control systems, and secondary sodium support systems. Provide the following activities: systems engineering, work instruction and procedure development, field performance; evaluation of final system end-state status, disposition of resources and hazardous materials such as glycol, Mobiltherm, aqueous film forming foam (AFFF), chemicals, transformer cooling fluids, and fuel oil.			

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2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.2.9.03		5 WBS ELEMENT TITLE Project 03-F-031 Sodium Storage Facility	
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 This Expense funded project provides for the construction of SSF which will receive and store sodium transferred from the FFTF heat transport systems and reactor fuel storage vessels. The facility will be located adjacent the FFTF plant. The sodium will contain small amounts of NaK. The work activities include construction, construction management, and satisfying the safety, quality assurance and environmental requirements for long term storage of solidified sodium.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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.	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, Other Contractors, Purchased Services, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT This activity provides for the environmental, health physics, safety, and security compliance envelope of the 308 Building, in the Hanford 300 Area, until the building is turned over to an ERC for D&D. Assure by periodic monitoring/sampling that safety and environmental requirements are being met until building turnover. This includes radiological and safety monitoring, building administration, support by hazardous material specialist, operator/craft support, training, sample analysis, and transition management. Includes generation and turnover of 308 Building D&D data package.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.8.02	5 WBS ELEMENT TITLE 308 Building 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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT This activity provides for the management, operations, and engineering for a safe and compliant 308 Building in the Hanford 300 Area. These activities are for preparing the building for minimum surveillance, commensurate with reduced risk, until it is turned over to an ERC for D&D. This provides preparation/replacement and maintenance of building structure and equipment including the fire system in support of building operations. The engineering and technical activities associated 308 Building shutdown and equipment/waste disposition are also supported by this activity.		

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Provide Landlord services for the High Temperature Sodium Facility located in 337 Highbay basement; and buildings 335 and 3718M. Approximately 3-times per week perform a walk-through inspection of the sodium systems located in the 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.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	3 IDENTIFICATION NO. N/A
4 WBS ELEMENT CODE 7.3.1.3.9.01		5 WBS ELEMENT TITLE TRIGA® Fuel Disposition	
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 Provide administration, engineering, operations, training, quality assurance, nuclear and industrial safety, packaging and shipping engineering, fabrication services, NEPA support, health physics, and craft support for TRIGA® fuel storage basin to accomplish fuel removal and shutdown. This activity provides the necessary support for removal and disposition of the TRIGA® SNF and SNM along with shutdown of the TRIGA® Fuel Storage Basin such as: plan and coordinate audits, technical reviews; maintain the TRIGA® Fuel Storage Basin to ensure safe, reliable, and environmental sound operation of remaining systems and provide necessary and required training; removal of irradiated fuel and loading in 6 MRF TRIGA® casks and 2 DOT-6M containers, shipment to and storage at the 400 Area ISA; removal of remaining nuclear materials; shutdown and disposition of remaining systems, equipment, and components.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Three NE legacy facilities were determined to require RCRA closure plans as appropriate remediation action. The three facilities are the 105-DR LSFF, the 4843 AMSF, and the 3718-F Alkali Metal Treatment and Storage Facility. The three facility RCRA closure plans were submitted to WA-Ecology and EPA between 1991 and 1992. The three closure plan submittals met three respective TPA milestones. In FY 1996, the review process for the 3718-F Alkali Metal Treatment and Storage Facility will continue with approval anticipated for late summer of CY 1996. This review will include the resolution of technical issues for the closure of the facility, such as sampling methodology and definition of closure workscope. The closure activity will commence in FY 1996, if the facility closure plan is approved. This will include facility cleaning, structure and soil sample collection and analysis, and final facility disposition. The specific methodology, limits, and prescribed actions are discussed in the closure plan. The closure activities for 105-DR LSFF and the 4843 AMSF will continue in FY 1996. This will include facility cleaning, structure and soil sample collection and analysis, and final facility disposition. The specific methodology, limits, and prescribed actions are discussed in the closure plan. In the FY 1996 interim, the facilities each require specific monitoring and surveillance to ensure interim environmental compliance. This includes, but is not limited to, radiological surveillances and structural inspections. During the closure plan review process, each facility must maintain compliance with its specific environmental requirements. This activity will continue.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT Provide management, technical lead and coordination for the disposition of the non-reactor NE facilities. 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.		

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)**WORK BREAKDOWN STRUCTURE DICTIONARY**

1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC		2 DATE 8/31/95	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 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 activities include: building administration, building operations, maintenance, and safety analysis. 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. 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. 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. Safety analysis is preparation of the Fire Hazards Assessment (FHA) and literature and historic files searches to help build the Safety Basis documentation.			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.3. WBS Dictionary (continued)		
WORK BREAKDOWN STRUCTURE DICTIONARY		
1 PROJECT TITLE/PARTICIPANT Advanced Reactors Transition/WHC	2 DATE 8/31/95	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 A. COST CONTENT Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads. B. TECHNICAL CONTENT/WORK STATEMENT D/C encompasses waste certification planning for low level waste and TRU waste disposal, RLA IX vault clean up, and preparation of a facility safety basis document. Waste certification includes preparation and approval of Certification Plans, QA plans, Training plans and actual training of waste handlers. RLA IX vault clean up includes preparation of procedures, inspections, procurements, initial entry into the vault, radiation and video surveys, and sampling for vault characterization. Clean up consists of removal of 12 spent IX columns, and vault decontamination and stabilization. Waste disposal includes preparation of the paperwork, packaging and transportation including road closures. A completion report will also be prepared. The facility Safety Basis document will be formatted in the Internal 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.		

ADVANCED REACTORS TRANSITION
WBS 7.3

FY 1996 MYPP

2.A.4. Responsibility Assignment Matrix

DOE-HQ

Technical

Bob Lang
Shane Johnson

Programmatic

Lisa Feldt
Rick Martinez

DOE-RL

John Wagoner, Manager

Lloyd Piper, Assistant Manager,
Facilities

Jim Mecca, Director,
Transition Program Division

Al Farabee, FFTF Program Manager

WHC

LaMar Trego, President

Ron Bliss, Vice President,
Transition Projects

Ed Loika, Director,
FFTF Transition Project

Jim Steffen, Manager, Fuel Fabrication
Facilities Transition Project

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.4.a. 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	Guttenberg	18200 FFTF Engineering
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	7.3.1.1.8.09	1B18	1B1809	Support Functions	Hulvey	18300 FFTF Transition Project Office
6640	7.3.1.1.8.10	1B18	1B1810	Engineering	Guttenberg	18200 FFTF Engineering
6640	7.3.1.1.8.11	1B18	1B1811	Maintenance	Boehnke	18600 FFTF/FMEF Maintenance
6640	7.3.1.1.8.13	1B18	1B1814	Safeguards and Security	Walton	8P000 Safeguards and Security
6640	7.3.1.1.8.14	1B18	1B1814	300 Area Fuel Oil Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.15	1B18	1B1815	Other Materials Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.16	1B18	1B1816	Various Inventory Change	Montano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.18	1B18	1B1818	Inventory - Spares	Mantano	10220 TrP Business Mgt - South
6640	7.3.1.1.8.20	1B18	1B1820	Regulatory Compliance	Miller	18700 FFTF Technical Support
6640	7.3.1.1.9.02	1B19	1B1902	Transition Support Functions	Hulvey	18300 FFTF Transition Project Office
6640	7.3.1.1.9.03	1B19	1B1903	Fuel Offload	Hulvey	18300 FFTF Transition Project Office
6640	7.3.1.1.9.04	1B19	1B1904	Na/Nak Removal & System Shutdown	Guttenberg	18200 FFTF Engineering
6640	7.3.1.1.9.05	1B19	1B1905	Support System Shutdown	Guttenberg	18200 FFTF Engineering

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.A.4.b. 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	1B68	1B6801	308 Building Surveillance	Danko	19200 Plant Operations
6641	7.3.1.3.8.02	1B68	1B6802	308 Building Operations	Danko	19200 Plant Operations
6641	7.3.1.3.8.03	1B68	1B6803	Legacy Occupancy	Guttenberg	18200 FFTF Engineering
6641	7.3.1.3.9.01	1B69	1B6901	TRIGA® Fuel Disposition	Danko	19000 Fuel Fab Facilities Transition Project
6641	7.3.1.3.9.02	1B69	1B6902	NE RCRA Closures	Miller	18700 FFTF Technical Support
6641	7.3.1.3.9.03	1B69	1B6903	NE Legacies	Guttenberg	18200 FFTF Engineering

2.A.4.c. 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	1B99	1B9903	Project 03-F-031 Sodium Storage Facility	Guttenberg	18200 FFTF Engineering

2.A.4.d. 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	1B78	1B7800	309 Building S&M	Bitten	19100 PRTR Transition
6643	7.3.1.4.9	1B79	1B7900	309 Building D/C	Bitten	19100 PRTR Transition

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ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

2.A.5. Technology Requirements

To drain the residual sodium from the FFTF reactor vessel, which could be as much as 53 to 60 m³ (14,000 to 16,000 gal) of sodium, a temporary drain pipe must be inserted into the reactor inlet plenum. Although the possibility of inserting the drain pipe through the cold leg piping is being evaluated, it may be necessary to enter through the top of the reactor vessel. This would require machining a hole or holes through the core support structure approximately 15.2 m (50 ft) below the operating floor, under molten [149 to 204.4° C (300 to 400° F)] sodium or, if sodium can be drained low enough, in an argon atmosphere above the residual sodium.

Mechanical machining to produce hole(s) will require research to develop machining parameters for drilling or machining under inert gas or sodium. Alternate hole production techniques such as Electric Discharge Machining or Mechanical Disintegration Machining, if feasible in the space above the sodium, would require technology development in this area.

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ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 1996 Waste/SNM Type Volume Projections for ADS 6640						
Period Start Date: 10/01/95			Period End Date: 9/30/96			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	41.3	0	31.0 *	10.3	0
LLW (LIQUID)	19	7.6	0	0	0	0
LLMW (SOLID)	0.03	0.01	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	12.2 **	0	3.8 ***	0	1.5 ****	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	19.9	0	0	19.9	0
LANDFILL	0	3737	0	0	3737	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

* Reduction results from compaction

** FFTF fueled components

*** TRIGA® fuel stored in the 400 Area ISA/Advanced Reactors Transition

**** FFTF fueled components transferred to PFP/Transition Projects

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 1997 Waste/SNM Type Volume Projections for ADS 6640

Period Start Date: 10/01/96				Period End Date: 9/30/97			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned	
HLW	0	0	0		0	0	
LLW (SOLID)	0	61.2	0	35.0 *	26.2	0	
LLW (LIQUID)	26.6	7.6	0	0	34.2	0	
LLMW (SOLID)	0.04	0.01	0	0	0	0	
LLMW (LIQUID)	0	0	0	0	0	0	
LLW (GTC3)	0	0	0	0	0	0	
SNM	14.5	0	0	0	3.7 **	0	
TRU	0	0	0	0	0	0	
TRUM	0	0	0	0	0	0	
HAZARDOUS	0	1.7	0	0	1.7	0	
LANDFILL	0	3737	0	0	3737	0	
ASBESTOS	0	4	0	0	4	0	
SANITARY (LIQUID)	0	0	0	0	0	0	

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters, except for SNM where the value is reported in metric tons of heavy metal.

* Reduction results from compaction

** Na Bonded fuel shipped to INEL

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 1998 Waste/SNM Type Volume Projections for ADS 6540

Period Start Date: 10/01/97					Period End Date: 9/30/98		
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned	
HLW	0	0	0		0	0	
LLW (SOLID)	0	61.2	0	35.0 *	26.2	0	
LLW (LIQUID)	0	7.6	0	0	0	0	
LLMW (SOLID)	0.05	0.01	0	0	0	0	
LLMW (LIQUID)	0	0	0	0	0	0	
LLW (GTC3)	0	0	0	0	0	0	
SNM	10.8	0	0	0	0	0	
TRU	0	0	0	0	0	0	
TRUM	0	0	0	0	0	0	
HAZARDOUS	0	1.7	0	0	1.7	0	
LANDFILL	0	3737	0	0	3737	0	
ASBESTOS	0	4	0	0	4	0	
SANITARY (LIQUID)	0	0	0	0	0	0	

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters, except for SNM where the value is reported in metric tons of heavy metal.

* Reduction results from compaction

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 1999 Waste/SNM Type Volume Projections for ADS 6540

Period Start Date: 10/01/98		Period End Date: 9/30/99				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0		0	0
LLW (SOLID)	0	188.6	0	31.0 *	157.6	0
LLW (LIQUID)	7.6	7.6	0	0	0	0
LLWM (SOLID)	0.06	0.01	0	0	0	0
LLWM (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	10.8	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	1.7	0	0	1.7	0
LANDFILL	0	3737	0	0	3737	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLWM = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters, except for SNM where the value is reported in metric tons of heavy metal.

* Reduction results from compaction

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 2000 Waste/SNM Type Volume Projections for ADS 6640

Period Start Date: 10/01/99		Period End Date: 9/30/2000				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0		0	0
LLW (SOLID)	0	41.3	0	31.0 *	10.3	0
LLW (LIQUID)	15.1	0	0	0	0	0
LLMW (SOLID)	0.07	0.01	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC)	0	0	0	0	0	0
SNM	10.8	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	1.7	0	0	1.7	0
LANDFILL	0	3737	0	0	3737	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters, except for SNM where the value is reported in metric tons of heavy metal.

* Reduction results from compaction

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: FFTF

2.A.6. FY 2001 Waste/SNM Type Volume Projections for ADS 6640						
Period Start Date: 10/01/2000			Period End Date: End of Facility Life Cycle 3/31/2001			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0		0	0
LLW (SOLID)	0	41.3	0	31.0 *	10.3	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	15.1	7.6	0	0	22.7	0
LLMW (LIQUID)	0.08	0.01	0	0	0.09	0
LLW (GTC3)	0	0	0	0	0	0
SNM	10.8	0	0	0	10.8 **	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	1.7	0	0	1.7	0
LANDFILL	0	3737	0	0	3737	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters, except for SNM where the value is reported in metric tons of heavy metal.

* Reduction results from compaction

** 400 ISA transferred to Spent Nuclear Fuel

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: 308 Building

2.A.6. FY 1996 Waste/SNM Type Volume Projections for ADS 6641

Period Start Date: 10/01/95			Period End Date: End of Facility Life Cycle 9/30/96			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	5	0	0	5	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0	0	0	0	0
LANDFILL	0	0	0	0	0	0
ASBESTOS	0	0	0	0	0	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 1996 Waste/SNM Type Volume Projections for ADS 6641

Period Start Date: 10/01/95		Period End Date: 9/30/96				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	0	0	0	0	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0.5	0	0	0.5	0
LANDFILL	0	5	0	0	5	0
ASBESTOS	0	0	0	0	0	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: LLW = Low Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 1997 Waste/SNM Type Volume Projections for ADS 5641						
Period Start Date: 10/01/96			Period End Date: 9/30/97			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	0.06	0	0	0.06	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0.5	0	0	0.5	0
LANDFILL	0	10	0	0	10	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	7.3	0	0	7.3	0

Key: LLW = Low Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 1998 Waste/SNM Type Volume Projections for ADS 5541						
Period Start Date: 10/01/97			Period End Date: 9/30/98			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	0	0	0	0	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0.95	0	0	0.95	0
LANDFILL	0	17	0	0	17	0
ASBESTOS	0	0	0	0	0	0
SANITARY (LIQUID)	0	5.8	0	0	5.8	0

Key: LLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 1999 Waste/SNM Type Volume Projections for ADS 6641

Period Start Date: 10/01/98				Period End Date: 9/30/99			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned	
HLW	0	0	0	0	0	0	0
LLW (SOLID)	0	0	0	0	0	0	0
LLW (LIQUID)	0	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0	0
SNM	0	0	0	0	0	0	0
TRU	0	0	0	0	0	0	0
TRUM	0	0	0	0	0	0	0
HAZARDOUS	0	3.25	0	0	3.25	0	0
LANDFILL	0	7	0	0	7	0	0
ASBESTOS	0	0	0	0	0	0	0
SANITARY (LIQUID)	0	5	0	0	5	0	0

Key: LLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 2000 Waste/SNM Type Volume Projections for ADS 6641

Period Start Date: 10/01/99		Period End Date: 9/30/2000				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	0	0	0	0	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	2	0	0	2	0
LANDFILL	0	13	0	0	13	0
ASBESTOS	0	0	0	0	0	0
SANITARY (LIQUID)	0	570	0	0	570	0

Key: LLW = High Level Waste; LLMW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: NE Legacies

2.A.6. FY 2001 Waste/SNM Type Volume Projections for ADS 6641

Period Start Date: 10/01/2000		Period End Date: End of Facility Life Cycle 9/30/2001				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	0	0	0	0	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	0	0	0	0	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0.5	0	0	0.5	0
LANDFILL	0	5	0	0	5	0
ASBESTOS	0	4	0	0	4	0
SANITARY (LIQUID)	0	205	0	0	205	0

Key: LLW = Low Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: 105DR Large Sodium Fire Facility

2.A.6. FY 1998 Waste/SNM Type Volume Projections for ADS 5641

Period Start Date: 10/01/95		Period End Date: End of Facility Life Cycle 9/30/96					
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned	
HLW	0	0	0	0	0	0	0
LLW (SOLID)	0	0.2	0	0	0.2	0	0
LLW (LIQUID)	0	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0	0
SNM	0	0	0	0	0	0	0
TRU	0	0	0	0	0	0	0
TRUM	0	0	0	0	0	0	0
HAZARDOUS	0	1.2	0	0	1.2	0	0
LANDFILL	0	6	0	0	6	0	0
ASBESTOS	0	3	0	0	3	0	0
SANITARY (LIQUID)	0	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

Program: 309 Building

2.A.6. FY 1996 Waste/SNM Type Volume Projections for ADS 6643

Period Start Date: 10/01/95		Period End Date: 9/30/96				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned
HLW	0	0	0	0	0	0
LLW (SOLID)	0	20	0	0	20	0
LLW (LIQUID)	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0
SNM	0	0	0	0	0	0
TRU	0	3	0	0	3	0
TRUM	0	0	0	0	0	0
HAZARDOUS	0	0	0	0	0	0
LANDFILL	0	0.3	0	0	0.3	0
ASBESTOS	0	0	0	0	0	0
SANITARY (LIQUID)	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: 309 Building

2.A.6. FY 1997 Waste/SNM Type Volume Projections for ADS 6643

Period Start Date: 10/01/96					Period End Date: 9/30/97				
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned			
HLW	0	0	0	0	0	0			
LLW (SOLID)	0	5	0	0	5	0			
LLW (LIQUID)	0	0	0	0	0	0			
LLMW (SOLID)	0	0.3	0	0	0.3	0			
LLMW (LIQUID)	0	0	0	0	0	0			
LLW (GTC3)	0	0	0	0	0	0			
SNM	0	0	0	0	0	0			
TRU	0	0.8	0	0	0.8	0			
TRUM	0	0	0	0	0	0			
HAZARDOUS	0	0	0	0	0	0			
LANDFILL	0	0.3	0	0	0.3	0			
ASBESTOS	0	0	0	0	0	0			
SANITARY (LIQUID)	0	0	0	0	0	0			

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

Note: Volumetric units for values entered in the table are in cubic meters.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

Program: 309 Building

2.A.6. FY 1998 Waste/SNM Type Volume Projections for ADS 6643

Period Start Date: 10/01/97				Period End Date: End of Facility Life Cycle 9/30/98			
Waste Type	Beginning Inventory	Waste/SNM Generated	Waste/SNM Received	Waste Reduction	Waste/SNM Transferred	Waste/SNM Dispositioned	
HLW	0	0	0	0	0	0	0
LLW (SOLID)	0	82	0	0	82	0	0
LLW (LIQUID)	0	0	0	0	0	0	0
LLMW (SOLID)	0	0	0	0	0	0	0
LLMW (LIQUID)	0	0	0	0	0	0	0
LLW (GTC3)	0	0	0	0	0	0	0
SNM	0	0	0	0	0	0	0
TRU	0	0.9	0	0	0.9	0	0
TRUM	0	0	0	0	0	0	0
HAZARDOUS	0	0	0	0	0	0	0
LANDFILL	0	6	0	0	6	0	0
ASBESTOS	0	3	0	0	3	0	0
SANITARY (LIQUID)	0	0	0	0	0	0	0

Key: HLW = High Level Waste; LLW = Low Level Waste; LLMW = Low Level Mixed Waste; SNM = Special Nuclear Material; TRU = Transuranic; TRUM = Transuranic Mixed.

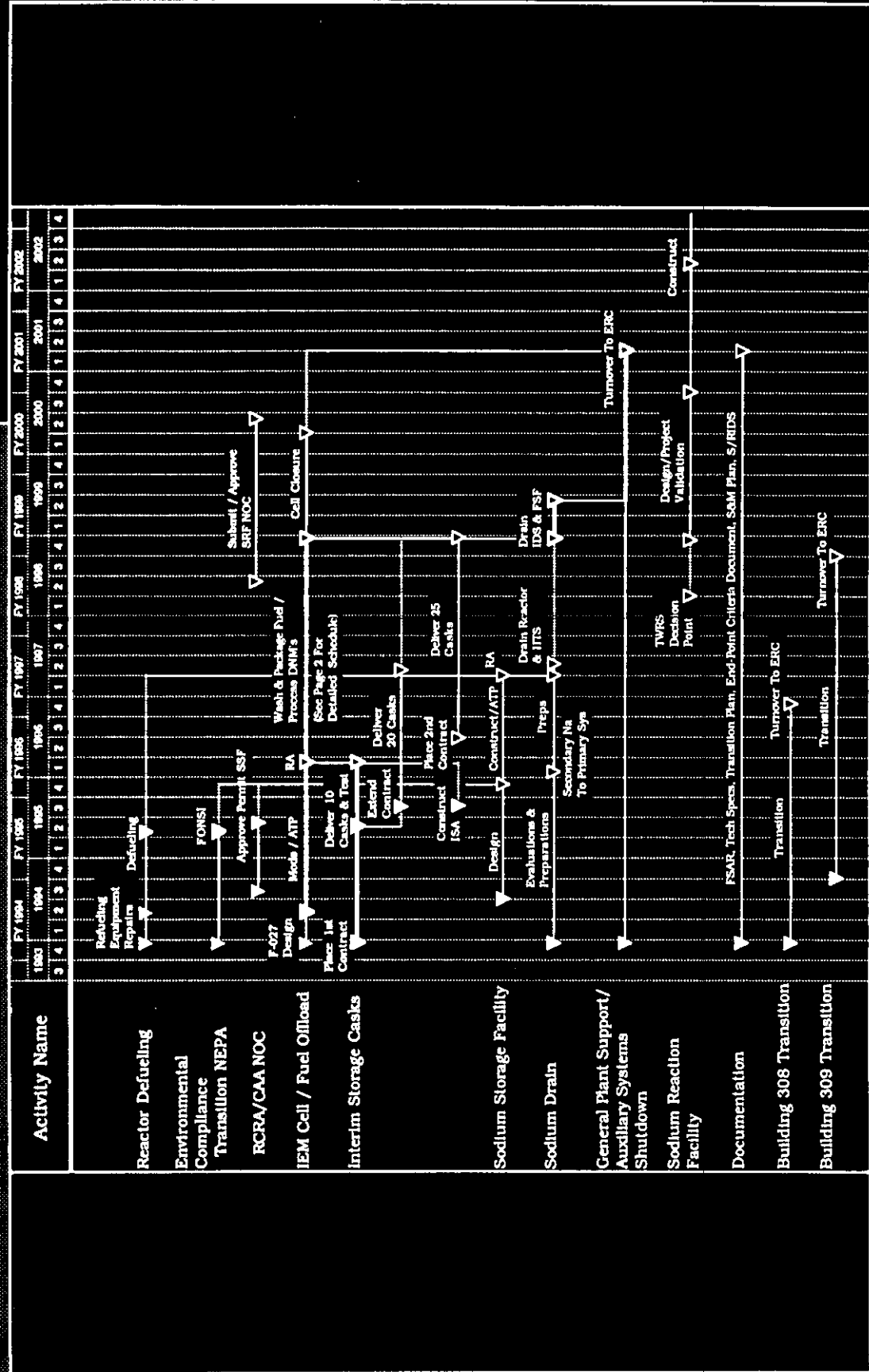
Note: Volumetric units for values entered in the table are in cubic meters.

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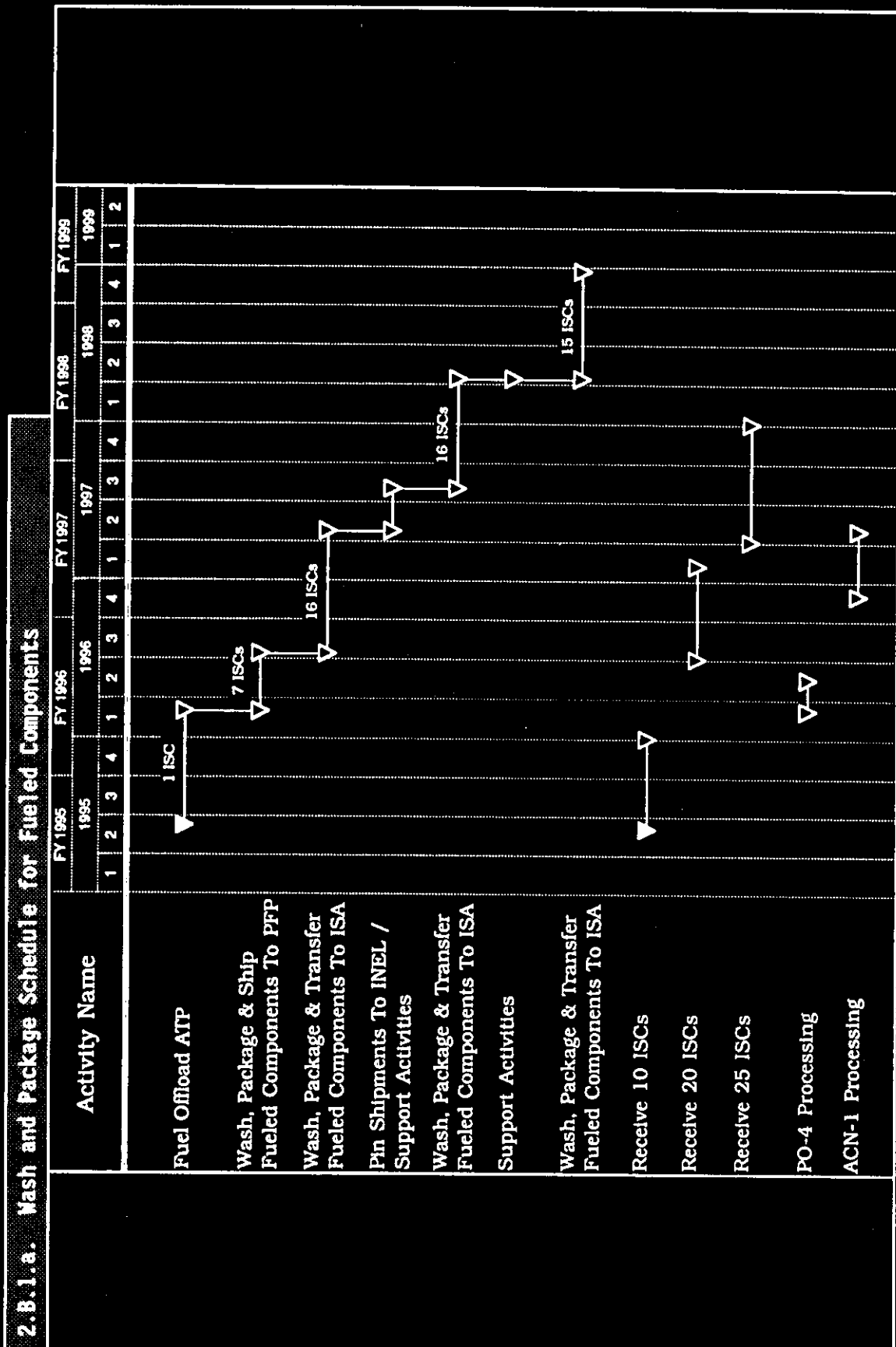
FY 1996 MYPP

2.B.1. Master Baseline Schedule



ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP



ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

2.B.2.a. Milestone List for ADS 6640

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B17-96-101	7.3.1.1.7.01	6640	Update Resource Loaded Schedule	10/31/95
RL	B18-96-001	7.3.1.1.8.10	6640	Prepare reduction plan for FFTF Fire Protection Surveillance based on devaluation of buildings/equipment	11/07/95
RL	B19-96-401	7.3.1.1.9.04	6640	Install reactor vessel immersion heaters	11/15/95
RL	B17-96-104	7.3.1.1.7.01	6640	Update FFTF Transition Project Plan	11/30/95
RL	B19-96-402	7.3.1.1.9.04	6640	Complete readiness assessment for early secondary sodium drain	12/19/95
RL	B18-96-101	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 95-4	12/31/95
RL	B19-96-403	7.3.1.1.9.04	6640	Complete drain of secondary sodium to in-plant storage tanks	1/19/96
RL	B19-96-502	7.3.1.1.9.05	6640	Remove PCB Transformer X-28 from FFTF	2/16/96
RL	B19-96-308	7.3.1.1.9.03	6640	Complete Phase 2 (hot) testing of the Fuel Offload Acceptance Test Procedure	2/27/96
RL	B18-96-102	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 96-1	3/31/96
RL	B19-96-501	7.3.1.1.9.05	6640	Complete shutdown of Group 2 and 3 systems	4/15/96
RL	B17-96-102	7.3.1.1.7.01	6640	Prepare FY 1998 ADS draft	4/30/96
RL	B19-96-404	7.3.1.1.9.04	6640	Finalize concept for draining reactor inlet plenum	5/31/96
RL	B19-96-309	7.3.1.1.9.03	6640	Place procurement contract for remaining Interim Storage Casks	6/28/96
RL	B18-96-103	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 96-2	6/30/96
RL	B19-96-201	7.3.1.1.9.02	6640	Administrative assessment of S/RID	6/30/96

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

2.B.2.a. Milestone List for ADS 6640 (continued)					Milestone Completion Date
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	
HQ	B19-96-310	7.3.1.1.9.03	6640	Disposition Category IC, IIC and IID fueled components and eliminate FFTF Protected Area	8/14/96
RL	B19-96-503	7.3.1.1.9.05	6640	Remove PCB Transformers X-9 and X-10	8/27/96
RL	B17-96-103	7.3.1.1.7.01	6640	Prepare FY 1997 MYPP draft	8/30/96
RL	B18-96-104	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 96-3	9/30/96
RL	B17-97-101	7.3.1.1.7.01	6640	Update Resource Loaded Schedule	10/31/96
RL	B17-97-104	7.3.1.1.7.01	6640	Update FFTF Transition Project Plan	11/30/96
RL	B18-97-101	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 96-4	12/31/96
RL	B18-97-102	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 97-1	3/31/97
RL* (M-81-02)	B19-97-401	7.3.1.1.9.04	6640	Complete Readiness Assessment for Reactor and HTS sodium drain to SSF	4/02/97
RL	B17-97-102	7.3.1.1.7.01	6640	Prepare FY 1999 ADS draft	4/30/97
RL* (M-81-04-T01)	B19-97-403	7.3.1.1.9.04	6640	Complete Reactor and Heat Transport System sodium drain	5/13/97
RL	B19-97-301	7.3.1.1.9.03	6640	Wash, package and transfer FFTF fueled components to ISA in 16 ISCs	5/19/97
RL	B18-97-103	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 97-2	6/30/97
RL	B17-97-103	7.3.1.1.7.01	6640	Prepare FY 1998 MYPP Draft	9/01/97
RL	B18-97-104	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 97-3	9/30/97
RL	B17-98-104	7.3.1.1.7.01	6640	Update Resource Loaded Schedule	10/31/97
RL	B17-98-106	7.3.1.1.7.01	6640	Update FFTF Transition Project Plan	11/30/97
RL	B18-98-101	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 97-4	12/31/97

* This equivalent milestone results from the accelerated SSF construction schedule. See table 2.B.2.e.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

2.B.2.a. Milestone List for ADS 6640 (continued)					
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B18-98-102	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 98-1	3/31/98
RL	B19-98-301	7.3.1.1.9.03	6640	Wash, package and transfer FFTF fueled components to ISA in 16 ISCs	4/17/98
RL	B17-98-103	7.3.1.1.7.01	6640	Prepare FY 2000 ADS draft	4/30/98
RL* (M-81-02-T01)	B17-98-101	7.3.1.1.7.01	6640	Prepare sodium disposition evaluation report/decision point	5/30/98
RL	B18-98-103	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 98-2	6/30/98
RL	B17-98-105	7.3.1.1.7.01	6640	Prepare FY 1999 MYPP Draft	9/01/98
RL** (M-81-03)	B17-98-102	7.3.1.1.7.01	6640	Submit FFTF End Point Criteria Document	9/30/98
RL	B18-98-104	7.3.1.1.8.11	6640	Complete Shutdown Work Phase 98-3	9/30/98
RL	B19-99-301	7.3.1.1.9.03	6640	Wash, package and transfer FFTF fueled components to ISA in 15 ISCs	12/23/98

* This milestone allows time for RL to review and submit to WA-Ecology. See table 2.B.2.e.

** This milestone is the same as the TPA milestone that has a negotiated due date of 12/98. See table 2.B.2.e.

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

2.B.2.b. Milestone List for ADS 6641					
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B69-96-101	7.3.1.3.9.01	6641	Complete the removal of TRIGA® fuel from the 308 Building	1/31/96
RL	B68-96-201	7.3.1.3.8.02	6641	Complete shutdown transition of the 308 Building, including preparation of the Surveillance and Maintenance Plan and End Point Criteria documentation	7/31/96
RL	B69-96-303	7.3.1.3.9.03	6641	Complete removal of 335 Building sodium loops	8/19/96
RL	B69-96-304	7.3.1.3.9.03	6641	Complete NE Legacies Portable Sodium Cleaning Station	9/30/96
RL	B68-97-201	7.3.1.3.8.02	6641	Turnover 308 Building to the Environmental Restoration Contractor for D&D	10/01/96
RL	B69-97-301	7.3.1.3.9.03	6641	Begin removal of Transient Test Loop	12/01/96
RL	B69-97-302	7.3.1.3.9.03	6641	Begin removal of 337 Building Sodium System	9/01/97
RL	B69-98-301	7.3.1.3.9.03	6641	Complete Transient Test Loop piping removal	6/30/98
RL	B69-98-302	7.3.1.3.9.03	6641	Drain 335 Building SHTL and PAL tanks	9/30/98

ADVANCED REACTORS TRANSITION WBS 7.3

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2.B.2.c. Milestone List for ADS 6642

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL* (M-81-01)	B99-96-301	7.3.1.2.9.03	6642	Initiate Sodium Storage Facility construction	10/30/95
RL	B99-96-302	7.3.1.2.9.03	6642	Complete installation of sodium transfer line from FFTF to SSF	9/30/96
RL	B99-97-301	7.3.1.2.9.03	6642	Complete installation of sodium drain line to FSF	12/01/96
RL	B99-97-302	7.3.1.2.9.03	6642	Complete Sodium Storage Facility construction and turnover to WHC	1/30/97

* This equivalent milestone results from the accelerated SSF construction schedule. See table 2.B.2.e.

2.B.2.d. Milestone List for ADS 6643

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
RL	B79-96-901	7.3.1.4.9	6643	Prepare Low Level Waste Plan	3/31/96
RL	B79-96-902	7.3.1.4.9	6643	Prepare Transuranic Waste Plan	7/31/96
RL	B79-96-903	7.3.1.4.9	6643	Complete clean up of Rupture Loop IX Vault	7/31/96
RL	B79-97-901	7.3.1.4.9	6643	Rupture Loop Annex Decon	9/30/97
RL	B79-97-902	7.3.1.4.9	6643	309 Building Stack and Pits Decon	9/30/97
RL	B79-98-901	7.3.1.4.9	6643	TW Holding Tank Stabilization	1/31/98
RL	B79-98-902	7.3.1.4.9	6643	PRIR Reactor Core Characterization/Stabilization	9/30/98
RL	B79-98-903	7.3.1.4.9	6643	Fuel Examination Cell Stabilization	9/30/98
RL	B79-98-904	7.3.1.4.9	6643	Complete shutdown transition of the 309 Building, including preparation of the Surveillance and Maintenance Plan and End Point Criteria documentation	9/30/98

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2.B.2.e. Milestones List for Tri-Party Agreement					
Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
TPA-RL M-81-01	B99-97-303	7.3.1.2.9.03	6642	Initiate Sodium Storage Facility construction	2/97
TPA-RL 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-RL M-81-02-T01	B17-98-102	7.3.1.1.7.01	6640	Submit sodium disposition evaluation report/decision point	6/98
TPA-RL M-81-02	B19-98-402	7.3.1.1.9.04	6640	Complete Sodium Storage Facility startup	7/98
TPA-RL 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-RL 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-RL 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-RL M-81-03	B17-99-102	7.3.1.1.7.01	6640	Submit FFTF End Point Criteria Document	12/98
TPA-RL 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-RL 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
TPA-RL M-81-04	B19-00-401	7.3.1.1.9.04	6640	Complete FFTF sodium drain	3/2000
TPA-RL M-81-00-T05	B19-01-501	7.3.1.1.9.05	6640	Complete auxiliary systems deactivation	3/2001
TPA-RL M-81-05	B17-00-101	7.3.1.1.7.01	6640	Submit FFTF Surveillance and Maintenance Plan	6/2001

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2.B.2.e. Milestones List for Tri-Party Agreement (continued)

Milestone Type	Control Number	RL WBS Number	ADS Number	Milestone Description	Milestone Completion Date
TPA-RL M-81-05	817-00-101	7.3.1.1.7.01	6640	Submit FFTF Surveillance and Maintenance Plan	6/2001
TPA-RL M-81-06	819-01-502	7.3.1.1.9.05	6640	Complete PCB Transformer Disposal	9/2001
TPA-RL M-81-00	817-02-101	7.3.1.1.7.01	6640	Complete FFTF transition and initiate the Surveillance and Maintenance phase	12/2001

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2.B.3. Milestone Description Sheet			
Title: Initiate Sodium Storage Facility construction			Date: 9/20/95
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.2.9.03			Due Date: 10/30/95
Control Number: B99-96-301			Rev: 0
MILESTONE TYPE: ☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	DIVISION: ☐ State ☐ Federal ☒ DOE ☐ RCRA ☒ TPA Number M-81-01*	DELIVERABLE: ☐ Report ☒ Letter ☐ Drawings ☐ Other (specify)	ADDRESS TO: ☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Provide the construction contractor with a Notice to Proceed that allows approved start of construction.			
Description of what constitutes completion of this milestone: The construction contractor has been issued a Notice to Proceed with construction by the Contracting Officer.			
Cost Account Manager		Program/Project Manager	
S. Guttenberg		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

* Actual TPA milestone titled "Initiate Sodium Storage Facility construction" has a completion date of 2/97. The early date (10/95) for the above milestone results from the accelerated SSF construction schedule.

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2.B.3. Milestone Description Sheet (continued)			
Title: Update Resource Loaded Schedule			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 10/31/95
Control Number: B17-96-101			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			

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2.B.3. Milestone Description Sheet (continued)			
Title: Prepare reduction plan for FFTF Fire Protection Systems Surveillance based on devaluation of buildings/equipment			Date: 9/20/95
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.1.8.10			Due Date: 11/07/95
Control Number: B18-96-001			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 plan for FFTF fire protection system operation, maintenance, and surveillance reduction. Includes the review and appropriate revisions to the FFTF Fire Hazards Analysis (FHA), WHC-SD-FF-FHA-001.			
Description of what constitutes completion of this milestone: Submit Fire Protection System Devaluation Plan and schedule to RL for buildings and equipment devalued to zero by DOE letter 95-FFTF-056, dated 7/6/95.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Install reactor vessel immersion heaters			Date: 9/20/95
Assigned To: G. N. Ruge			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 11/15/95
Control Number: B19-96-401			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: Procure, fabricate and install immersion heaters in the reactor vessel that provide sufficient heating capability to permit early draining of the secondary sodium system. Included is installation of the required power feed and control system, and operational checkout.			
Description of what constitutes completion of this milestone: The reactor vessel immersion heating system is operational and is capable of providing sufficient heating capability to permit early offload of the secondary sodium.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Update FFTF Transition Project Plan			Date: 9/20/95
Assigned To: R. K. Hulvey			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 11/30/95
Control Number: B17-96-104			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 resolution of technical issues, Tri-Party Agreement milestones, objectives, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit updated 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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2.B.3. Milestone Description Sheet (continued)			
Title: Complete readiness assessment for early secondary sodium drain			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 12/19/95
Control Number: B19-96-402			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 FFTF plant readiness assessment to permit early secondary sodium drain to the in-plant storage tanks.			
Description of what constitutes completion of this milestone: The readiness assessment that documents required plant preparations, which includes procedure development and crew training to support early secondary sodium drain, is complete.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 95-4			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 12/31/95
Control Number: B18-96-101			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 mandatory work scope for Work Phase 95-4.			
Description of what constitutes completion of this milestone: All work that was designated as mandatory for Work Phase 95-4 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			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete drain of secondary sodium to in-plant storage tanks			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 1/19/96
Control Number: B19-96-403			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: Complete the FFTF secondary Heat Transport System and secondary sodium process loop drain to the in-plant storage tanks.			
Description of what constitutes completion of this milestone: The secondary sodium systems are drained to the maximum extent possible except that the Intermediate Heat Exchangers remain filled and molten and the cold traps 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 S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete removal of TRIGA® fuel from the 308 Building			Date: 9/20/95
Assigned To: A. D. Danko			CIN:
Program WBS Designator: 7.3.1.3.9.01			Due Date: 1/31/96
Control Number: B69-96-101			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: Remove the Test Reactor and Isotope Production, General Atomics (TRIGA®) fuel from the 308 Building and ship to interim storage location.			
Description of what constitutes completion of this milestone: The TRIGA® fuel has been removed from the 308 Building.			
Cost Account Manager A. D. Danko		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

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2.B.3. Milestone Description Sheet (continued)			
Title: Remove PCB transformer X-28 from FFTF			Date: 9/20/95
Assigned To: N. C. Hoitink			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 2/16/96
Control Number: B19-96-502			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: Remove electrical transformer X-28 which is filled with PCB contaminated oil. This is one of nineteen units that must be removed during the transition of FFTF.			
Description of what constitutes completion of this milestone: The transformer oil has been drained into waste drums, and the drums and transformer shell removed from the site and transported to the 212-P Waste Disposal Facility.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete Phase 2 (hot) testing of the Fuel Offload Acceptance Test Procedure			Date: 9/20/95
Assigned To: S. W. Hiller			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 2/27/96
Control Number: B19-96-308			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 Phase 2 of the Fuel Offload Acceptance Test Procedure (ATP). This phase includes the handling of highly-radioactive irradiated fueled components.			
Description of what constitutes completion of this milestone: The WHC portion of the readiness assessment for unrestricted fuel offload is completed. This denotes WHC approval that Phase 2 testing of the ATP is complete and pending RL release, unrestricted fuel offload may commence.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 96-1			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 3/31/96
Control Number: B18-96-102			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 mandatory work scope for Work Phase 96-1.			
Description of what constitutes completion of this milestone: All work that was designated as mandatory for Work Phase 96-1 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			

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2.B.3. Milestone Description Sheet (continued)			
Title: Prepare Low Level Waste Plan			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 3/31/96
Control Number: B79-96-901			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: Prepare and approve the 309 Building Low Level Waste Certification Plan and facility-specific operating procedures. Update operating procedures and train personnel to package, certify and ship Low Level Waste.			
Description of what constitutes completion of this milestone: Submit letter to RL documenting completion of Low Level Waste Plan activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete shutdown of Group 2 and 3 systems			Date: 9/20/95
Assigned To: S. V. Doeblner			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 4/15/96
Control Number: B19-96-501			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 Group 2 and Group 3 systems except for the following three systems (listed in Group 2) that have been moved to Group 4: 31A Reactor Internals; 31B Control Rod Drive Mechanisms; and 41A In-Vessel Handling Machine.			
Description of what constitutes completion of this milestone: The systems listed for Groups 2 and 3 (except as noted above) in the FFTF Transition Project Plan WHC-SD-FF-SSP-004 are shut down per the applicable work documents. Shutdown, as used here in title, is defined as placing the systems in a condition which: • Poses no hazards • Requires minimal maintenance • May not place the system in its end state for D&D; i.e., all fluid drained/flushed, and tanks removed. • Cannot be operated • Causes no locked alarms			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 1998 ADS draft			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/30/96
Control Number: B17-96-102			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) 1998 draft Activity Date Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit drafts of Advanced Reactors Transition FY 1998 ADS 6640, 6641, 6642, and 6643 to RL.			
Cost Account Manager		Program/Project Manager	
R. K Hulvey		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Finalize concept for draining reactor inlet plenum			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 5/31/96
Control Number: B19-96-404			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: Document the selection of the final concept for draining sodium from the reactor vessel inlet plenum. The original plant design provided no capability for draining this sodium. An initial feasibility study identified several concepts and a number of problem areas that required further evaluation prior to this final concept selection.			
Description of what constitutes completion of this milestone: Submit an FFTF Engineering approved supporting document (SD) to RL that documents the concepts and the basis for final concept selection.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Place procurement contract for remaining Interim Storage Casks			Date: 9/20/95
Assigned To: S. W. Hiller			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 6/28/96
Control Number: B19-96-309			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: Award procurement contract for the remaining Interim Storage Casks (ISC) needed for fuel offload.			
Description of what constitutes completion of this milestone: A signed purchase order for the remaining ISCs has been issued.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 96-2			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 6/30/96
Control Number: B18-96-103			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 mandatory work scope for Work Phase 96-2.			
Description of what constitutes completion of this milestone: All work designated as mandatory for Work Phase 96-2 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			

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2.B.3. Milestone Description Sheet (continued)			
Title: Administrative assessment of S/RID			Date: 9/20/95
Assigned To: R. L. Strain			CIN:
Program WBS Designator: 7.3.1.1.9.02			Due Date: 6/30/96
Control Number: B19-96-201			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 and document an assessment of the FFTF Standards/Requirements Identification Document (S/RID) to determine how compliance with each FFTF S/RID requirement is maintained.			
Description of what constitutes completion of this milestone: The completed assessment documentation has been submitted to the WHC Codes & Standards Support for entry into the Requirements Based Assessment Database (RBAD).			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

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2.B.3. Milestone Description Sheet (continued)			
Title: Complete shutdown transition of the 308 Building, including preparation of the Surveillance and Maintenance Plan and End Point Criteria documentation			Date: 9/20/95
Assigned To: A. D. Danko			CIN:
Program WBS Designator: 7.3.1.3.8.02			Due Date: 7/31/96
Control Number: B68-96-201			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: Transition the 308 Building to shutdown status. The final activities disposition the Test Reactor and Isotope Production, General Atomics (TRIGA®) vessel water and defueling equipment, and waste generated during deactivation.			
Description of what constitutes completion of this milestone: All physical shutdown actions are complete, all waste has been shipped, the Environmental Restoration Contractor turnover documentation data package is complete, and the Surveillance and Maintenance Plan is in effect.			
Cost Account Manager A. D. Danko		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare Transuranic Waste Plan			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 7/31/96
Control Number: B79-96-902			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 309 Building Contact-Handled TRU Waste Certification Plan and the Quality Assurance Plan will be written and approved. Operating procedures will be updated and personnel trained to package, certify and ship TRU waste.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of Transuranic Waste Plan activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete clean up of Rupture Loop IX Vault Annex			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 7/31/96
Control Number: B79-96-903			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)
Milestone Description: The PRTR Rupture Loop IX Vault will be cleaned, 12 spent IX columns removed and prepared for shipment to the Solid Waste Burial Grounds, and a coating applied to internal surfaces to stabilize residual contamination, if necessary. The vault shield blocks, including the metal rain cover, will be installed.			
Description of what constitutes completion of this milestone: Submit letter to RL documenting completion of the Rupture Loop IX Vault clean up activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Disposition Category IC, IIC and IIID fueled components and eliminate FFTF Protected Area			Date: 9/20/95
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 8/14/96
Control Number: B19-96-310			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: Disposition all Category IC, IIC, & IIID special nuclear material (SNM) and eliminate FFTF Protected Area Security requirements.			
Description of what constitutes completion of this milestone: All Category IC, IIC, & IIID SNM has been transferred from the FFTF to the PFP Protected Area and the FFTF Protected Area eliminated.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete removal of 335 Building Loops			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 8/19/96
Control Number: B69-96-303			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 piping from the Prototype Applications Loop and the Small Heat Transfer Loop in the 335 Building.			
Description of what constitutes completion of this milestone: All piping, electrical, and control components from the two loops (except that needed to drain the tank) is removed, properly stored, shipped offsite, or recycled. Insulation and wiring has been recycled or properly disposed of. Components such as tanks, pumps, cold traps, etc. are safely isolated for later draining, cleaning, or disposal. The NaK system in PAL is removed and properly disposed; the NaK is collected for shipment to an offsite vendor and the NaK piping system is sent to a treatment, storage and disposal center or other appropriate location for disposal.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Remove PCB Transformers X-9 and X-10			Date: 9/20/95
Assigned To: N. C. Hoitink			CIN:
Program WBS Designator: 7.3.1.1.9.05			Due Date: 8/27/96
Control Number: B19-96-503			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: Remove two transformers, X-9 and X-10 that are filled with PCB contaminated oil, from the roof of Auxiliary Building West. These are the fourth and fifth of nineteen units to be removed.			
Description of what constitutes completion of this milestone: The transformer oil has been drained into waste drums, and the drums and transformer shells removed from the site and transported to the 212-P Waste Disposal Facility.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 1997 MYPP draft			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 8/30/96
Control Number: B17-96-103			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) 1997 draft Multi-Year Program Plan (MYPP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit draft of Advanced Reactors Transition FY 1997 MYPP to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 96-3			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 9/30/96
Control Number: B18-96-104			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 mandatory work scope for Work Phase 96-3.			
Description of what constitutes completion of this milestone: All work designated as mandatory for Work Phase 96-3 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete installation of sodium transfer line from FFTF to SSF			Date: 9/20/95
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.2.9.03			Due Date: 9/30/96
Control Number: B99-96-302			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 design and installation of new trace heated sodium piping, including pipe hangers, from the existing FFTF primary/ secondary fill header to the Sodium Storage Facility (SSF). This piping establishes the flow path for draining the FFTF primary and secondary sodium to the new SSF.			
Description of what constitutes completion of this milestone: The piping is installed; a non-destructive examination and leak test of the piping to verify pressure integrity performed; the trace heaters installed and tested; and the piping insulated.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete NE Legacies Portable Sodium Cleaning Station			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 9/30/96
Control Number: B69-96-304			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: Complete fabrication and perform an operational checkout of the portable sodium cleaning station used to support the NE Legacies sodium disposition project.			
Description of what constitutes completion of this milestone: An operational checkout is successfully completed and the system is ready to use.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Turn over the 308 Building to the Environmental Restoration Contractor for D&D			Date: 9/20/95
Assigned To: A. D. Danko			CIN:
Program WBS Designator: 7.3.1.3.8.02			Due Date: 10/01/96
Control Number: B68-97-201			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: Remove the TRIGA® fuel from the facility and perform final shutdown of the 308 Building.			
Description of what constitutes completion of this milestone: All negotiations and actions required of the operations contractor to support a transition from EM-60 to the Environmental Restoration Contractor are complete.			
Cost Account Manager A. D. Danko		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Update Resource Loaded Schedule			Date: 9/20/95
Assigned To: S. H. Crow			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		Program/Project Manager	
R. K. Hulvey		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Update FFTF Transition Project Plan			Date: 9/20/95
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 resolution of technical issues, Tri-Party Agreement milestones, objectives, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit updated 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete installation of sodium drain line to FSF			Date: 9/20/95
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.2.9.03			Due Date: 12/01/96
Control Number: B99-97-301			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: Design and install new trace heated sodium piping, including piping hangers, from the existing FFTF primary/secondary fill header to the Fuel Storage Facility (FSF). This piping establishes the flow path for draining sodium from FSF to the Sodium Storage Facility (SSF).			
Description of what constitutes completion of this milestone: The piping is installed at the interface location adjacent to the FSF storage vessel. (Once all of the FFTF fueled components are removed from the FSF storage vessel, the piping will be connected to permit a vessel drain and transfer to SSF). A non-destructive examination and leak test of the installed piping to verify pressure integrity performed; the trace heaters installed and tested; and the piping insulated.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Begin removal of Transient Test Loop			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 12/01/96
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: Begin dismantling the Transient Test Loop in the 335-A Building.			
Description of what constitutes completion of this milestone: Work procedures are in place, funding and staff (engineers, technicians, and crafts) are committed, and a readiness assessment has been held and documented.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 96-4			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 12/31/96
Control Number: B18-97-101			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 mandatory work scope for Work Phase 96-4.			
Description of what constitutes completion of this milestone: All work designated as mandatory for Work Phase 96-4 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete SSF construction and turnover to WHC			Date: 9/20/95
Assigned To: C. G. McCargar			CIN:
Program WBS Designator: 7.3.1.2.9.03			Due Date: 1/30/97
Control Number: B99-97-302			Rev: 0
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
☐ DOE-HQ ☒ DOE-RL ☐ CONTRACTOR	☐ State ☐ Federal ☒ DOE ☐ RCRA ☐ TPA Number _____	☐ Report ☐ Letter ☐ Drawings ☒ Other (specify) Site Management System monthly report	☐ DOE-HQ ☒ DOE-RL ☐ Other (specify)
Milestone Description: Complete the construction and turnover of the new Sodium Storage Facility (SSF) to WHC. Work scope encompasses site preparation; transporting four Clinch River Breeder Reactor (CRBR) tanks (3-80,000 gallons and 1-52,000 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 WHC. \$10.4 million has been funded and identified in the RLS to complete SSF construction.			
Description of what constitutes completion of this milestone: Construction and turnover of new Sodium Storage Facility adjacent to the FFTF plant is complete.			
Cost Account Manager		Program/Project Manager	
S. Guttenberg		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

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WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 97-1			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 3/31/97
Control Number: B18-97-102			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 mandatory work scope for Work Phase 97-1.			
Description of what constitutes completion of this milestone: All 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

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete readiness assessment for Reactor and HTS sodium drain to SSF.			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 4/02/97
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: Complete the readiness assessment for the new Sodium Storage Facility (SSF) and FFTF plant to support initiation of reactor and HTS sodium drain. This includes all post construction calibration, grooming and alignment (CG&A) and acceptance testing to assure SSF operational readiness for sodium drain. The readiness assessment also verifies that all required plant preparations including procedure preparation and crew training are complete.			
Description of what constitutes completion of this milestone: The WHC portion of the readiness assessment for draining sodium from the reactor vessel and HTS is completed. This denotes WHC approval that all necessary activities for start of sodium drain to SSF are complete and pending RL release, actual draining may commence.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

* Actual TPA milestone is titled "Complete Sodium Storage Facility startup" and has a completion date of 7/98. The early date (4/97) for the above milestone results from the accelerated SSF construction schedule.

ADVANCED REACTORS TRANSITION

WBS 7.3

FY 1996 MYPP

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 1999 ADS drafts			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/30/97
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 draft Activity Data Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit drafts of Advanced Reactors Transition FY 1999 ADS 6640, 6641 and 6643 to RL.			
Cost Account Manager		Program/Project Manager	
R. K. Hulvey		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Reactor and Heat Transport System sodium drain			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.9.04			Due Date: 5/13/97
Control Number: B19-97-403			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: Complete the draining of the FFTF secondary and primary sodium systems (including the reactor vessel and sodium storage tanks) to the Sodium Storage Facility (SSF).			
Description of what constitutes completion of this milestone: The secondary and primary heat transport systems, reactor vessel, storage tanks, and sodium process loops are drained to SSF to the maximum extent possible. Sodium residuals are frozen and inerted. The primary sodium storage tanks will contain a minimum heat pending completion of IDS vessel drain.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

* Actual TPA milestone is titled "Complete Reactor and Heat Transport System sodium drain" and has a completion date of 4/98. The early date (5/97) for the above milestone results from the accelerated SSF construction schedule.

ADVANCED REACTORS TRANSITION

FY 1995 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Wash, package and transfer FFTF fueled components to ISA in 16 ISCs			Date: 9/20/95
Assigned To: S. V. Doebler			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 5/19/97
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: Document progress in washing, packaging and the transfer of FFTF fueled components for dry cask storage.			
Description of what constitutes completion of this milestone: Sixteen (16) loaded Interim Storage Casks have been transferred to the 400 Area Interim Storage Area.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 97-2			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 6/30/97
Control Number: B18-97-103			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 mandatory work scope for Work Phase 97-2.			
Description of what constitutes completion of this milestone: All 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			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 1998 MYPP draft			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 9/01/97
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 draft Multi-Year Program Plan (MYPP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit draft of Advanced Reactors Transition FY 1998 MYPP to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Begin removal of 337 Building Sodium System			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 9/01/97
Control Number: B69-97-302			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: Start the dismantling activities on the 337 Building sodium system.			
Description of what constitutes completion of this milestone: Work procedures are in place, funding and staff (engineers, technicians, and craft) are committed, and a readiness assessment has been held and documented.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 97-3			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 9/30/97
Control Number: B18-97-104			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 mandatory work scope for Work Phase 97-3.			
Description of what constitutes completion of this milestone: All work designated as mandatory for Work Phase 97-3 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Rupture Loop Annex Decon			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/30/97
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 PRTR Rupture Loop Annex internal surfaces which contain smearable contamination shall be decontaminated and/or coated, as necessary, to stabilize any residual surface contamination. Contaminated portable equipment and components will be removed and prepared for disposal.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: 309 Stack and Pits Decon			Date: 9/20/95
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 309 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 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Update Resource Loaded Schedule			Date: 9/20/95
Assigned To: S. H. Crow			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 R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Update FFTF Transition Project Plan			Date: 9/20/95
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 resolution of technical issues, Tri-Party Agreement milestones, objectives, and Advanced Reactors Transition funding guidance.			
Description of what constitutes completion of this milestone: Submit updated 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 97-4			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 12/31/97
Control Number: B18-98-101			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 mandatory work scope for Work Phase 97-4.			
Description of what constitutes completion of this milestone: All work that was 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: TW Holdup Tanks Stabilization			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 1/31/98
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 tanks heels will be removed, packaged, and disposed; piping will be plugged; and tanks, sumps, and IX column will 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 98-1			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 3/31/98
Control Number: B18-98-102			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 mandatory work scope for Work Phase 98-1.			
Description of what constitutes completion of this milestone: All work that was 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 1995 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Wash, package and transfer FFTF fueled components to ISA in 16 ISCs			Date: 9/20/95
Assigned To: S. V. Doeblcr			CIN:
Program WBS Designator: 7.3.1.1.9.03			Due Date: 4/09/98
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: Document progress in washing, packaging and transfer of FFTF fueled components for dry cask storage.			
Description of what constitutes completion of this milestone: Sixteen (16) more loaded Interim Storage Casks have been transferred to the 400 Area Interim Storage Area.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 2000 ADS draft			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 4/30/98
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 draft Activity Date Sheets (ADS) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit drafts of Advanced Reactors Transition FY 2000 ADS 6640, 6641 and 6643 to RL.			
Cost Account Manager R. K Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare sodium disposition evaluation report/ decision point			Date: 9/20/95
Assigned To: T. M. Burke			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 5/30/98
Control Number: B17-98-101			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 the product use for 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 by May 30, 1998. Completion of the Tri-Party Agreement milestone noted above 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 S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

- * The TPA milestone is titled "Prepare sodium disposition evaluation report/decision point" and has a completion date of 6/98. The early date (5/98) for the above milestone allows time for RL to submit report to WA-Ecology.

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 98-2			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 6/30/98
Control Number: B18-98-103			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 mandatory work scope for Work Phase 98-2.			
Description of what constitutes completion of this milestone: All work that was 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Transient Test Loop piping removal			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 6/30/98
Control Number: B69-98-301			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: Complete removal of the Transient Test Loop piping in the 335-A Building.			
Description of what constitutes completion of this milestone: All piping, electrical, and control equipment not needed for tank drain has been removed and sent offsite, recycled, or properly disposed. All components such as tanks, heat exchanger, pumps, and valves that are not part of the piping have been safely isolated for future disposition. Insulation and wiring has been recycled or properly disposed of.			
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

2.B.3. Milestone Description Sheet (continued)			
Title: Prepare FY 1999 MYPP draft			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 9/01/98
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 draft Multi-Year Program Plan (MYPP) for Advanced Reactors Transition.			
Description of what constitutes completion of this milestone: Submit draft of FY Advanced Reactors Transition FY 1999 MYPP to RL.			
Cost Account Manager R. K. Hulvey		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Submit FFTF End Point Criteria Document			Date: 9/20/95
Assigned To: S. H. Crow			CIN:
Program WBS Designator: 7.3.1.1.7.01			Due Date: 9/30/98
Control Number: B17-98-102			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 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete Shutdown Work Phase 98-3			Date: 9/20/95
Assigned To: T. R. Gregory			CIN:
Program WBS Designator: 7.3.1.1.8.11			Due Date: 9/30/98
Control Number: B18-98-104			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 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		Program/Project Manager	
G. J. Boehnke		R. K. Hulvey	
Program Element Manager			
E. F. Loika			

ADVANCED REACTORS TRANSITION

FY 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: PRTR Reactor Core Characterization/Stabilization			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/30/98
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 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 these activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

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WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Fuel Examination Cell Stabilization			Date: 9/20/95
Assigned To: E. J. Bitten			CIN:
Program WBS Designator: 7.3.1.4.9			Due Date: 9/30/98
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)
Milestone Description: Conduct a detailed radiological and hazardous materials survey to characterize contamination found in the Fuel Examination Cell. Inspect the cell's trap door. Remove contaminated equipment and prepare for shipment to the Solid Waste Burial Grounds. Remove smearable contamination from internal surfaces of the cell, and where necessary, stabilize residual surface contamination.			
Description of what constitutes completion of this milestone: Submit a letter to RL documenting completion of Fuel Examination Cell Stabilization activities.			
Cost Account Manager E. J. Bitten		Program/Project Manager R. K. Hulvey	
Program Element Manager J. M. Steffen			

ADVANCED REACTORS TRANSITION

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WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Complete shutdown transition of the 309 Building, including preparation of the Surveillance and Maintenance Plan and End Point Criteria documentation			Date: 9/20/95
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: Transition the 309 Building to shutdown status.			
Description of what constitutes completion of this milestone: All physical shutdown actions are complete, all waste has been shipped, 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 1996 MYPP

WBS 7.3

2.B.3. Milestone Description Sheet (continued)			
Title: Drain 335 Building SHTL and PAL tanks			Date: 9/20/95
Assigned To: W. F. Brehm			CIN:
Program WBS Designator: 7.3.1.3.9.03			Due Date: 9/30/98
Control Number: B69-98-302			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: Drain the tanks associated with the Small Heat Transfer Loop (SHTL) and the Prototype Applications Loop (PAL) in the 335 Building.			
Description of what constitutes completion of this milestone: Sodium has been drained from the SHTL and PAL tanks and shipped offsite, or otherwise properly dispositioned.			
Cost Account Manager S. Guttenberg		Program/Project Manager R. K. Hulvey	
Program Element Manager E. F. Loika			

ADVANCED REACTORS TRANSITION WBS 7.3

FY 1996 MYPP

2.B.4. FY 1996 Milestone Schedule for ADS 6540

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
☒ Update Resource Loaded Schedule ☒ Prepare Reduction Plan For FFTF Fire Protection Surveillance Based On Devaluation Of Buildings/Equipment ☒ Install Reactor Vessel Immersion Heaters ☒ Update FFTF Transition Project Plan ☒ Complete Readiness Assessment For Early Secondary Sodium Drain ☒ Complete Shutdown Work Phase 95-4 ☒ Complete Drain Of Secondary Sodium To Inplant Storage Tanks ☒ Remove PCB Transformer X-28 From FFTF ☒ Complete Phase 2 (Hot) Testing Of The Fuel Offload ATP ☒ Complete Shutdown Work Phase 96-1 ☒ Complete Shutdown Of Group 2 & 3 Systems ☒ Prepare FY 1998 ADS Draft Finalize Concept For Draining Reactor Inlet Plenum ☒ Place Procurement Contract For Remaining Interim Storage Casks ☒ Complete Shutdown Work Phase 96-2 ☒ Administrative Assessment Of S/RID ☒ Disposition Category IC, IIC And IIID Fueled Components And Eliminate FFTF Protected Area ☒ Remove PCB Transformers X-9 And X-10 ☒ Prepare FY 1997 MYPP Draft ☒ Complete Shutdown Work Phase 96-3 ☒												

☒ DOE-RL ☒ DOE-HQ

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FY 1996 MYPP

2.2.B.4. FY 1995 Milestone Schedule for ADSs 6641, 6642 & 6643

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ADS 6641	⊖ Complete The Removal Of TRIGA Fuel From The 308 Building Complete Shutdown Transition Of The 308 Building, Including Preparation Of ⊖ The Surveillance And Maintenance Plan And End Point Criteria Documentation Complete Removal Of 335 Building Sodium Loops ⊖ Complete NE Legacies Portable Sodium Cleaning Station ⊖											
	⊖ Initiate Sodium Storage Facility Construction											
	Complete Installation Of Sodium Transfer Line From FFTF To SSF ⊖											
	⊖ Prepare Low Level Waste Plan Prepare Transuranic Waste Plan ⊖ Complete Cleanup Of Rupture Loop IX Vault ⊖											
ADS 6642												
ADS 6643												
⊖ DOE-RL ⊖ DOE-HQ												

ADVANCED REACTORS TRANSITION

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2.C.1. Cost Baseline Summary by Year							Note: \$ are in Thousands		
Program Element/ADS #	Fund Type OP or CE	FY 1996 Plan	FY 1997 Plan	FY 1998 Plan	FY 1999 Plan	FY 2000 Plan	FY 2001 Plan	FY 2002 Plan	
6640	OP	42,550	42,790	37,763	36,831	29,877	14,220	1,500	
6640	CE	191	217	226	233	121	62	0	
6641	OP	3,543	3,535	4,218	4,665	2,140	1,345	317	
6642	OP	4,529	1,617	0	0	0	0	0	
6643	OP	1,745	2,620	4,400	352	362	373	384	
Total Program Cost Summary	OP CE	52,367 191	50,562 217	46,381 226	41,848 233	32,379 121	15,938 62	2,201 0	
Grand Totals		52,558	50,779	46,607	42,081	32,500	16,000	2,201	

In FY 1996, \$8.5M of the \$52.6M is carryover funding from FY 1995. A total of \$15.7M in FY 1995 funds are committed in existing contracts scheduled for completion through FY 1997.

The expense funded activities in the ART program include several, large, multi-year contracts related to the FFTF Transition (ADSs 6640 and 6642). These contracts require that funds be obligated when the fixed-price contracts are issued, although the costs will not be incurred until work has been performed or products have been delivered. These contracts can be broken down into five areas:

- Purchase contract for CCCs [\$2,059K placed 1/95]
- Purchase contract for design and fabrication of the first ten ISCs [\$4,662K, placed 9/93]
- Modification to the above purchase contract to fabricate and deliver 20 additional ISCs, for a total of 30 [\$5,867K, placed 9/95]
- Purchase contract for fabrication and delivery of an additional 25 ISCs [\$7,170K (estimated), expected to be placed in 5/96]
- Construction of the SSF [\$7,333K projected cost]. A fixed-price construction contract was placed 9/95.

The FFTF will be turned over to EM-40 in FY 2001. For purposes of the Baseline Environmental Management Report (BEMR), the budget for FY 2003 and beyond will follow the FY 2002 level.

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FY 1996 MYPP

2.C.1.a Funds Obligation/Costs Profile		Note: \$ are in Thousands					
		Pre-FY 1995	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
CCC Purchase Funds obligated (B/A): Actual/Expected Costs (B/O):			2,059		334		
			932	1,127	334		
ISC Design & Fabricate First Ten Funds obligated (B/A): Actual/Expected Costs (B/O):		4,662					
		989	2,821	852			
ISC Fabrication (#11 through #30) Funds obligated (B/A): Actual/Expected Costs (B/O):			5,867				
				2,014	3,853		
ISC Fabrication (#31 through #55) Funds obligated (B/A): Actual/Expected Costs (B/O):			1,948*	3,335	1,887		
				230	2,302	2,557	2,081
SSF Construction Funds obligated (B/A): Actual/Expected Costs (B/O):			7,885*				
			1,739	4,529	1,617		
Anticipated, Uncosted Obligations at the End of the Fiscal Year:		3,673	15,940	10,969	4,638	2,081	0

* Cost savings of \$2.5M in the SSF construction activity will be applied to partially fund the procurement of ISCs #31 through #55. \$2M of these funds were provided in FY 1995; the remaining \$0.5M was planned for FY 1996 funding for SSF.

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2.C.1.b Required Funding Profile							Note: \$ are in Thousands		
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002		
Workscope planned	52,558	50,779	46,607	42,081	32,500	16,000	2,201		
Less workscope funded by previous obligation	-8,523	-7,772	-2,557	-2,081	0	0	0		
Plus funds obligated for future year workscope	+3,105	+1,887	0	0	0	0	0		
Funding required	47,140	44,894	44,050	40,000	32,500	16,000	2,201		

2.C.1.c Funds Baseline Summary by Year										Note: \$ are in Thousands		
Program Element/ADS #	Fund Type OP or CE	FY 1996 Plan	FY 1997 Plan	FY 1998 Plan	FY 1999 Plan	FY 2000 Plan	FY 2001 Plan	FY 2002 Plan				
6640	OP	41,669	38,522	35,206	34,750	29,877	14,220	1,500				
6640	CE	183	217	226	233	121	62	0				
6641	OP	3,543	3,535	4,218	4,665	2,140	1,345	317				
6642	OP	0	0	0	0	0	0	0				
6643	OP	1,745	2,620	4,400	352	362	373	384				
Total Program Funding Summary	OP CE	46,957 183	44,677 217	43,824 226	39,767 233	32,379 121	15,938 62	2,201 0				
Grand Totals		47,140	44,894	44,050	40,000	32,500	16,000	2,201				

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2.C.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 1, "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 RLS 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). The PRTR/309 Building cost estimates were initially developed by an outside contractor specializing in environmental remediation activities.

The FFTF 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.

The FFTF 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. An exception is the SSF costs which are based on a completed design and an awarded fixed-price construction contract.

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2.C.2. Basis of Estimate (continued)

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. Section 2.E identifies specific savings expected from these initiatives.

The following tables provide the specific Basis of Estimate for each of the activities in the ART program. The resources for these activities have been costed in the RLS using Westinghouse Hanford Company (WHC) standard rate tables.

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FY 1996 MYPP

2.C.2.a. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct		Item	FY 1996	FY 1997	FY 1998
7.3.1.1.7/1B17 FFTF Program Integration		\$	2,870	2,818	2,680
		FTE	20	20	18
Methodology of estimate and justification of scope: The Program Integration work scope, as defined in the WBS Dictionary, is expected to be a continuation of similar work scope performed in FY 1994 and FY 1995. The estimates for this activity are based upon the experience gained by Transition Project Office staff in the past year of formulating Transition Project Plans, assigning activities to performing organizations, issuing the MYPP, formulating ADS submittals, responding to customer requests, and coordinating interaction with regulators. Based upon that experience, the resources to perform the planning and integration tasks have been estimated from FY 1994 and FY 1995 performance. These resources were then costed in the RLS using WHC standard rate tables. This estimate includes reserved funds for the payment of the Performance Based Incentives in the amount of \$1.1M in FY 1996 and \$1M each, FY 1997 and FY 1998.					

2.C.2.b. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct		Item	FY 1996	FY 1997	FY 1998
7.3.1.1.8.02/2B1802 CENRTC		\$	191	217	226
		FTE	0	0	0
Methodology of estimate and justification of scope: The CENRTC account in the S&M activity provides funds for procurement of capital equipment items throughout the ART program. In FY 1996, \$8K is allocated for equipment related to construction of a sodium cleaning station for use in deactivation of the NE Legacy test loops. The remainder of the funding is projected to meet contingency needs to purchase capital equipment for repair or replacement of plant items essential to on-going operations.					

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2.C.2.c. Basis of Estimate (continued)						Note: \$ are in Thousands	
Activity/Cost Acct		Item	FY 1996	FY 1997	FY 1998		
7.3.1.1.8/1B18 FFTF Surveillance & Maintenance		\$	25,515	24,412	24,739		
		FTE	211	205	205		

Methodology of estimate and justification of scope:

FFTF expense funded S&M work scope, as defined in the WBS Dictionary, will continue throughout the life of the FFTF Transition to ensure safe and compliant facility operation. The basis of estimate for the capital funded activities is described in section 2.C.2.c. This estimate is based on the number of personnel required to monitor and operate the plant safely. This requires plant operators, power operators, Examination and Decontamination Services (EDS) personnel, support personnel, engineers, crafts and technicians, training personnel, health physics personnel, quality assurance personnel, and safety personnel. Five operating crews will be maintained, each staffed with managers and operators to man required watchstations, provide work control services, train new personnel, and account for employee absences. Power operators are needed to continuously monitor and operate 400 Area building support equipment. EDS will support maintenance and periodic monitoring in MASF and the IEMC, provide work control services, and provide MASF building administration services. Support functions require personnel to provide services for occurrence report preparation, technical specification and environmental compliance, procedure maintenance, preventive and corrective work package preparation, training, and general plant support. This activity also provides safeguards and security for the FFTF.

The resources required for S&M have been identified in the RLS and were costed using WHC standard rate tables. A slight decrease in required resources occurs following secondary sodium drain.

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2.C.2.d. Basis of Estimate (continued)					Note: \$ are in Thousands	
Activity/Cost Acct		Item	FY 1996	FY 1997	FY 1998	
7.3.1.1.9/1B19 FFTF Deactivation/Compliance		\$	14,165	15,560	10,344	
		FTE	87	81	81	

Methodology of estimate and justification of scope:

FFTF D/C includes removing all fueled components from sodium storage, removing the residual sodium by means of a sodium removal system, placing the washed fueled components into ISCs, and shipping the ISCs to interim storage areas; draining removable liquid sodium from all plant systems to storage tanks in SSF; and shutting down or modifying supporting plant operating equipment and systems to support long term S/M of the deactivated facility.

The Fuel Offload activity is a first-of-a-kind activity. Therefore, a degree of approximation is required in the estimate, even though it is based upon experience in handling and washing fuel, as well as preparing detailed fueling plans and work plans. Further, experience in the operation and maintenance of fuel handling equipment is included in the estimate. The cost of the ISC purchase is estimated based on the vendor price for casks #11 - 30.

The cost estimate for Na/NaK removal and system shutdown is based on the experience of plant personnel in the handling of sodium and NaK, as well as the operation of supporting systems. This experience was applied to an evaluation of the anticipated drain sequence and projected time requirements to complete the draining. Since this is a unique activity, a degree of approximation in the estimate reflects unidentified and unresolved issues related to sodium drain to SSF and sodium drain from the reactor vessel.

The Support System Shutdown estimate is based upon detailed system shutdown plans as formulated by the cognizant engineers, as well as past experience in operating and maintaining these systems.

The cost of Support Functions is estimated based upon an assessment of support required, as indicated by past experience, in carrying out the oversight and review of the functions described above. Further, the direct support for the above activities, such as Radiological Control Technician (RCT) surveys and Quality Control (QC) inspections have been estimated, based upon an assessment of the planned activities.

Resources required have been costed in the RLS using WHC standard rate tables.

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2.C.2.d.1. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct	Item	FY 1996	FY 1997	FY 1998	
Cost Account 1B1903 (Partial) Fuel Offload - CCC and ISC	CCC \$	1,127	334	0	
	ISC \$	3,096	6,155	2,557	
Methodology of estimate and justification of scope					
This is a portion of Activity 1B19, that provides funding for the procurement of CCCs and ISCs for the fuel offload activity. Costs shown in the table are also included in the total costs shown in section 2.C.2.d. activity 1B19. Final deliveries and payment will be in FY 1999					
Funds for CCC and ISC procurements have been, or are expected to be, obligated as follows:					
Pre-FY 1995 Funds: \$4,662	FY 1995 Funds: \$9,874				
FY 1996 Funds: \$3,851	FY 1997 Funds: \$1,775				
(See section 2.C.1.a.)					

2.C.2.e. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct	Item	FY 1996	FY 1997	FY 1998	
7.3.1.2.9.03/1B9903 FFTF Shutdown Construction	\$	4,529	1,617	0	
	FTE	0.9	0.5	0	
Methodology of estimate and justification of scope:					
This activity completes the construction of SSF to allow sodium to be drained from the FFTF. The costs are based upon the fixed-price construction contract plus construction management expenses.					

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2.C.2.f. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct	Item	FY 1996	FY 1997	FY 1998	
7.3.1.3.8/1B68 Nuclear Energy Legacies Surveillance & Maintenance	\$	857	340	352	
	FTE	7	2	2	
Methodology of estimate and justification of scope: S&M activities, as defined in the WBS Dictionary, will continue until turnover of all facilities associated with original FFTF development and support activities. By the end of FY 1996 the 308 Building, used for FFTF fuel fabrication and testing, will have been shutdown, reducing the required level of S&M. In early FY 1997 the 308 Building will be turned over to ERC. During this transition to ERC, periodic S&M will continue relative to the fixed low level and transuranic contamination, and facility safety. Anticipated funding has been identified beyond the ERC takeover. Resources required for this activity have been estimated on the basis of past history for the facilities involved and by knowledgeable personnel assessing the level of ongoing S&M required in the 308 Building. Projected costs for legacy occupancy are based upon trends of resources required during the second half of FY 1995. These resources have been costed in the RLS using WHC standard rate tables.					

ADVANCED REACTORS TRANSITION

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2.C.2.g. Basis of Estimate (continued)		Note: \$ are in Thousands		
Activity/Cost Acct	Item	FY 1996	FY 1997	FY 1998
7.3.1.3.9/1B69 Nuclear Energy Legacies Deactivation/Compliance	\$	2,686	3,195	3,866
	FTE	23	41	48

Methodology of estimate and justification of scope:

This activity includes three major activities, as defined in the WBS Dictionary, removal of TRIGA® test reactor fuel to interim storage, continuation of RCRA closure activities for three covered locations, and disposition of sodium and NaK alloy wetted test systems used in the development of FFTF equipment and systems.

Specific resource requirements have been estimated for each of these activities by knowledgeable personnel responsible for the tasks. The plan for removal of TRIGA® fuel has been fully developed, including materials handling schedules and requirements. The storage casks have been identified based upon and transporting the casks is comparable to past activities and resources have been identified based upon that experience. The RCRA Closure activity costs have been estimated based upon past experience with similar cleanup and sampling activities, assuming final approval of all three closure plans as presently submitted. The NE Legacies test loop deactivation cost estimates have been developed from 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.)

These resources have been costed in the RLS using WHC standard rate tables.

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2.C.2.h. Basis of Estimate (continued)						Note: \$ are in Thousands	
Activity/Cost Acct		Item	FY 1996	FY 1997	FY 1998		
7.3.1.4.8/1B78 PRTR/309 Building Surveillance & Maintenance		\$	655	675	695		
		FTE	6	6	6		

Methodology of estimate and justification of scope:

The S&M work scope, as defined in the WBS Dictionary, will continue throughout the life of the PRTR/309 Building transition to ensure safe and compliant facility operation. When office area occupants of the building have been removed, the program expects to absorb additional S&M costs above those historically assigned.

The resources and costs to accomplish this S/M were initially estimated by an independent consultant, performing an assessment of the actions, resources, and costs to stabilize this facility. (WHC-SD-SP-SSP-001 Rev. 1, "309 Building Transition Plan.") Historical records and experience were used to determine the resource level and activities required. For FY 1996, these resources have been loaded into the RLS and costed using WHC standard rate tables.

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2.C.2.i. Basis of Estimate (continued)				Note: \$ are in Thousands	
Activity/Cost Acct	Item	FY 1996	FY 1997	FY 1998	
7.3.1.4.9/1B79 PRTR/309 Building Deactivation/Compliance	\$	1,090	1,945	3,705	
	FTE	11	22	37	
Methodology of estimate and justification of scope: The actions associated with this activity, as defined in the WBS Dictionary, revolve around waste packaging, removal, and disposal and stabilization of fixed contamination. Many of the affected areas have not been subject to routine access and the work scope includes characterizing these areas, as well as performing the required clean-up and stabilization. This lack of recent access, accompanied by a lack of past records, results in significant uncertainty in the level of required remedial action. The resources and costs to accomplish these actions were initially estimated by an independent consultant, performing an assessment of the actions, resources, and costs to stabilize this facility. (WHC-SD-SP-SSP-001 Rev. 1, "309 Building Transition Plan.") For FY 1996, these resources have been loaded into the RLS and costed using WHC standard rate tables. To date, the first ion exchanger vault has been cleaned out and stabilized at a cost consistent with the independent estimate. This lends credibility to the estimate for the remaining work.					

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2.C.3 Planned Staffing in FTEs								Note: Job Family only after 1997							
JOB FAMILY															
Job Category for first two years	1996	1997													
MANAGERS (Total)	31	27													
First line	22	18													
General/Executive	9	9													
Project/Program															
Other															
ENGINEERS (Total)	146	147	149	115	88	51									
Chemical	2	2													
Civil															
Computer															
Electrical	16	16													
Environmental															
Industrial															
Mechanical	23	22													
Nuclear	3	3													
Petroleum/Mining															
Plant	62	62													
Quality Control	5	5													
Safety	3	7													

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2.C.3 Planned Staffing in FTEs (continued)		Note: Job Family only after 1997									
Other	32	30									
SCIENTISTS (Total)	1	1	1	1	1	1	1	1	1	1	1
Chemists											
Environmental											
Geologists											
Life											
Material											
Mathematicians											
Physicists											
Social											
Other	1	1									
ADMIN/OTHER PROFESSIONALS (Total)	28	27	27	27	25	17	11				
Accountant/Auditor	4	3									
Architect											
Buyers/Procurement											
Communications											
Compliance Inspectors											
Computer System Analyst											
Cost Estimator/Planner/Scheduler	4	4									
Health Physics	1	1									

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2.C.3 Planned Staffing in FTEs (continued)		Note: Job Family only after 1997									
Industrial Hygiene	1	1									
Lawyers											
Personnel/Labor Relations											
Physicians											
Physician Assistant/Nurse											
Safeguard & Security	1	1									
Technical Writers & Editor	1	1									
Trainers	6	6									
Other	10	10									
GEN ADM/SECRETARY/CLERK (Total)	25	23	22	21	16	10					
Administrative Assistants	2	2									
Office Clerks (General)	7	7									
Office Clerks (Special)	4	4									
Secretaries	12	10									
Typist/Word Processing											
Other											
TECHNICIANS (Total)	31	33	34	24	18	11					1
Computer Operator/Coder											
Drafters											
Engineers/Technicians	10	9									

ADVANCED REACTORS TRANSITION WBS 7.3

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2.C.3 Planned Staffing in FTEs (continued)		Note: Job Family only after 1997					
Envir Sci Technicians							
Health Physics Technicians	11	13					
Industrial Safety/Health Technician							
Instrument/Control Technician	6	5					
Lab Technicians							
Media Technicians							
Survey/Map Technicians							
Other	4	4					
CRAFTS (Total)	46	67	81	56	29	9	3
Carpenters	2	2					
Electricians	10	9					
HVAC							
Machinists	1	1					
Masons							
Millwrights	7	7					
Painters	1	1					
Plumbers/Pipefitters	7	7					
Structural/Metal Workers	10	10					
Vehicle/Mobile Equip Mechanic							
Welders	2	2					

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2.C.3 Planned Staffing in FTEs (continued)					Note: Job Family only after 1997				
Other	6	26							
OPERATORS (Total)	44	45	43	33	25	20			
Chemical System									
Drillers									
Light Vehicle Drivers	7	7							
Material Moving Equipment	2	2							
Nuclear Plant	28	28							
Utilities Waste Processing	7	6							
Other		2							
LABOR & GENERAL WORKERS (Total)	14	11	13	9	9	7	5		
Firefighters									
Food Service									
Hand/Help Lab Gen									
Hand/Help Lab Spec									
Janitors/Cleaners	4	4							
Laundry Workers									
Hanford Patrol	8	5							
Other	2	2							
GRAND TOTAL OF JOB FAMILIES *	366	377	397	307	226	136	17		

* Numbers reported in this section include ICF Kaiser Hanford Company personnel, but not sub-contractors.

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2.C.4. FY 1996 Building Blocks							Note: \$ are in Thousands	
RL WBS No./ FDS WBS No.	ADS	Description	RL Pri	Fund Type	FY 1996	CJM FY 1996	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)	A2	OP	28,385	28,385	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	A2	CE	191	28,576	Provides funds for replacement equipment that is necessary to maintain the plant in a safe and compliant manner.	
7.3.1.1.3.8.01 7.3.1.1.3.8.02/ 1B6801 & 1B6802	6641	308 Building Surveillance & 308 Building Operations	A2	OP	791	29,367	Provides a safe and compliant facility./ Ensures public and worker safety, as well as environmental compliance.	
7.3.1.1.4.8.00/ 1B7800	6643	309 Building S&M	A2	OP	655	30,022	Provides a safe and compliant facility./ Ensures public and worker safety, as well as environmental compliance.	
7.3.1.1.3.8.03/ 1B6803	6641	Legacy Occupancy	B1	OP	66	30,088	Provides landlord support for facilities partially occupied by DOE NE non-reactor equipment./ Primarily worker protection.	
7.3.1.1.3.9.02/ 1B6902	6641	NE RCRA Closures	B1	OP	696	30,784	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 (Includes prorated portion of funding from Transition Support Functions, WBS 7.3.1.1.9.02/1B1902)	B1	OP	11,323	42,107	DOE directed FFTF to shutdown./ Must be completed before plant systems can be turned off.	
7.3.1.1.2.9.03/ 1B9903	6642	Project 03-F-031 SSF	B1	OP	4,529	46,636	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 (Includes prorated portion of funding from Transition Support Functions, WBS 7.3.1.1.9.02/1B1902)	B1	OP	2,564	49,200	DOE directed FFTF to shutdown./ Must be completed before plant systems can be turned off.	
7.3.1.1.3.9.01/ 1B6901	6641	TRIGA® Fuel Disposition	B1	OP	762	49,962	Required to vacate 308 Building./ S&M activities must continue beyond current planning.	

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2.C.4. FY 1996 Building Blocks (continued)							Note: \$ are in Thousands
RL WBS No./ FDS WBS No.	ADS	Description	RL Pri	Fund Type	FY 1996	CUM FY 1996	Justification of Scope/Impact if not funded
7.3.1.1.9.05/ 1B1905	6640	Support System Shutdown (Includes prorated portion of funding from Transition Support Functions, WBS 7.3.1.1.9.02/1B1902)	B1	OP	278	50,240	DOE directed FFTF to shutdown./ Must be completed before plant can be turned over for S&M.
7.3.1.4.9.00/ 1B7900	6643	309 Building D/C	B1	OP	1,090	51,330	DOE declared 309 Building a surplus hazardous facility./ Failure to perform stabilizing the work increases the risk of contaminating the environment and harming the health and safety of the workers.
7.3.1.3.9.03/ 1B6903	6641	NE Legacies	B1	OP	1,228	52,558	Strategy development and implementation for the disposition of DOE NE non-reactor facilities and associated materials/equipment./ Default on Cooperative Research And Development Agreement.
Total Operating						52,367	
Total Capital						191	
Grand Total						52,558	

\$8.5M of the workscope is funded from FY 1995 carryover of committed funds. In addition to the above workscope, \$5.8M will be obligated in FY 1996 toward purchase of the remaining ISCs. (Refer to section 2.C.1.)

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2.C.5. Cost Savings/Scope Elimination Initiatives		Note: \$ are in Millions		
Assumed Cost Savings Initiative *		FY 1996	FY 1997	FY 1998
Managed Cost Reductions:		0.5	0.5	0.5
Process Improvements:				
• 3161 Reorganization, including Technical Specification reductions		1.6	1.6	1.6
• Optimized Irradiated Fuel Loading in ISCs		1.3	1.3	1.3
• Store Unirradiated Fuel in ISCs		0.4	0.5	1.7
• Security Reductions due to early removal of Unirradiated Fuel		0.8	0.7	0.7
• Early Secondary Sodium Drain			1.3	0.5
Reduced Overhead:				
• Reduced G&A/CSP (17% vs 21% effective Nov. 1994)		1.5	1.5	1.3
• Reduced G&A/CSP (13% vs 17% effective Oct. 1995)		1.8	1.8	1.6
Scope Eliminations: **				
Total Assumed Cost Savings/Scope Eliminations		7.9	9.2	7.9

* Represents cost efficiencies assumed in current ADS/MYPP cost estimates (referenced in section 2.C.2.)

** Defined as low-value scope or scope no longer required to reach same end result.

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2.D. Performance Measures

The performance of the 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 MYPP, as modified by approved changes.

In addition, selected milestones, critical to project completion are identified each year as Performance Based Incentives. Management of resources to achieve these milestones ahead of schedule can result in incentive payments for WHC.

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3.A. Technical Objectives

ADS 6640 Milestones:

- B17-96-101 Update Resource Loaded Schedule
- B18-96-001 Prepare reduction plan for FFTF Fire Protection Surveillance based on devaluation of buildings/equipment
- B19-96-401 Install reactor vessel immersion heaters
- B17-96-104 Update FFTF Transition Project Plan
- B19-96-402 Complete readiness assessment for early secondary sodium drain
- B18-96-101 Complete Shutdown Work Phase 95-4
- B19-96-403 Complete drain of secondary sodium to in-plant storage tanks
- B19-96-502 Remove PCB Transformer X-28 from FFTF
- B19-96-308 Complete Phase 2 (hot) testing of the Fuel Offload Acceptance Test Procedure
- B18-96-102 Complete Shutdown Work Phase 96-1
- B19-96-501 Complete shutdown of Group 2 & 3 systems
- B17-96-102 Prepare FY 1998 ADS draft
- B19-96-404 Finalize concept for draining reactor inlet plenum
- B19-96-309 Place procurement contract for remaining Interim Storage Casks
- B18-96-103 Complete Shutdown Work Phase 96-2
- B19-96-201 Administrative assessment of S/RID
- B19-96-310 Disposition Category IC, IIC and IIID fueled components and eliminate FFTF Protected Area
- B19-96-503 Remove PCB Transformers X-9 and X-10
- B17-96-103 Prepare FY 1997 MYPP draft
- B18-96-104 Complete Shutdown Work Phase 96-3

ADS 6641 Milestones:

- B69-96-101 Complete the removal of TRIGA® fuel from the 308 Building
- B68-96-201 Complete shutdown transition of the 308 Building, including preparation of the Surveillance and Maintenance Plan and End Point Criteria documentation
- B69-96-303 Complete removal of 335 Building sodium loops
- B69-96-304 Complete NE Legacies Portable Sodium Cleaning Station

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3.A. Technical Objectives (continued)**ADS 6642 Milestones:**

B99-96-301 Initiate Sodium Storage Facility construction
B99-96-302 Complete installation of sodium transfer line from FFTF to SSF

ADS 6643 Milestones:

B79-96-901 Prepare Low Level Waste Plan
B79-96-902 Prepare Transuranic Waste Plan
B79-96-903 Complete clean up of Rupture Loop IX Vault

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3.B. Program 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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3.C.a. Cost Baseline by Month													Note: \$ are in Thousands	
WBS Element/Cost Category	Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
		135	122	155	128	128	169	135	135	162	121	135	168	1,693
7.3.1.1.7/1B17 Program Integration	Labor \$													
	Other \$	6	6	7	206	356	7	106	6	7	106	356	8	1,177
Monthly \$ Totals		141	128	162	334	484	176	241	141	169	227	491	176	2,870
FTEs		20	20	20	20	20	20	20	20	20	20	20	20	20
Comments:														

3.C.b. Cost Baseline by Month (continued)													Note: \$ are in Thousands	
WBS Element/Cost Category	Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
		1,552	1,419	1,800	1,479	1,480	1,929	1,533	1,520	1,839	1,398	1,519	1,912	19,380
7.3.1.1.8/1B18 FFTF Surveillance & Maintenance	Labor \$													
	Other \$	489	440	563	464	465	611	488	488	587	441	488	611	6,135
Monthly \$ Totals		2,041	1,859	2,363	1,943	1,945	2,540	2,021	2,008	2,426	1,839	2,007	2,523	25,515
FTEs		212	212	212	212	212	212	212	210	210	210	210	210	211
Comments: This table includes only expense funds. Capital funds are reported in table 3.C.c.														

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3.C.c. Cost Baseline by Month (continued)													Note: \$ are in Thousands			
WBS Element/Cost Category		Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
7.3.1.1.8.01/2B1801 CENRTC		Labor \$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Other \$	4	3	1	0	0	0	0	0	0	0	0	0	183	191
Monthly \$ Totals			4	3	1	0	0	0	0	0	0	0	0	183	191	
FTEs			0	0	0	0	0	0	0	0	0	0	0	0	0	
Comments: October through November costs support the NE Legacies Sodium Cleaning Station fabrication. The September costs are contingency for required CENRTC purchases to repair or replace plant equipment.																

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Note: \$ are in Thousands

3.C.d. Cost Baseline by Month (continued)

WBS Element/Cost Category	Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
7.3.1.1.9/1B19 FFTF Deactivation/Compliance	Labor \$	593	535	685	616	616	803	685	669	794	583	702	716	7,997
	Other \$	288	403	559	499	298	337	393	392	982	461	621	935	6,168
Monthly \$ Totals		881	938	1,244	1,115	914	1,140	1,078	1,061	1,776	1,044	1,323	1,651	14,165
FTEs		82	82	86	86	86	86	92	93	93	93	86	77	87

Comments: This activity includes major procurements for the CCCs and ISCs required for interim storage of the FFTF fueled components. The costs associated with these procurements are included in the total costs shown above, and are explicitly detailed below. In addition to these estimated costs, it is intended to commit approximately \$7M during May to the procurement of ISCs 31 through 55. (See section 2.C.1.)

Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
CCC \$	62	56	71	59	59	78	62	62	74	56	124	364	1,127
ISC 1-10 \$	0	227	341	245	39	0	0	0	0	0	0	0	582
ISC 11-30 \$	38	34	43	104	104	137	216	216	259	247	274	342	2,014
ISC 31-55 \$	0	0	0	0	0	0	0	0	0	66	73	91	230
TOTAL CCC/ISC \$	100	317	455	408	202	215	278	278	333	369	471	797	4,223

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3.C.e. Cost Baseline by Month (continued)												Note: \$ are in Thousands											
WBS Element/Cost Category		Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL								
7.3.1.2.9/1899 FFTF Shutdown Construction	Labor \$	6	5	6	5	5	5	7	5	5	7	5	5	7	68								
	Other \$	359	323	426	352	343	449	359	359	359	431	323	359	378	4,461								
Monthly \$ Totals			365	328	432	357	348	456	364	364	438	328	364	385	4,529								
FTEs			0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9								
Comments:																							

3.C.f. Cost Baseline by Month (continued)												Note: \$ are in Thousands											
WBS Element/Cost Category		Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL								
7.3.1.3.9/1869 NE Legacies Surveillance and Maintenance	Labor \$	50	45	57	47	47	62	50	50	56	22	24	30	540									
	Other \$	28	25	32	27	27	35	28	28	33	16	17	21	317									
Monthly \$ Totals			78	70	89	74	74	97	78	78	89	38	41	51	857								
FTEs			8	8	8	8	8	8	8	8	7	4	4	4	7								
Comments:																							

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3.C.g. Cost Baseline by Month (continued)												Note: \$ are in Thousands			
WBS Element/Cost Category	Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
7.3.1.3.9/1869 NE Legacies Deactivation/Compliance	Labor \$	219	197	251	187	138	170	136	136	158	118	126	156	1,992	
	Other \$	63	56	72	85	54	61	49	49	57	42	73	33	694	
Monthly \$ Totals		282	253	323	272	192	231	185	185	215	160	199	189	2,686	
FTEs		33	34	35	30	29	21	22	22	21	22	20	20	23	
Comments:															

3.C.h. Cost Baseline by Month (continued)												Note: \$ are in Thousands			
WBS Element/Cost Category	Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
7.3.1.1.4.8/1878 PRTR/309 Building Surveillance and Maintenance	Labor \$	47	43	54	45	45	59	47	47	57	43	47	59	593	
	Other \$	2	1	2	2	2	2	2	2	2	6	17	22	62	
Monthly \$ Totals		49	44	56	47	47	61	49	49	59	49	64	81	655	
FTEs		6	6	6	6	6	6	6	6	6	6	6	6	6	
Comments:															

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3.C.i. Cost Baseline by Month (continued)												Note: \$ are in Thousands			
WBS Element/Cost Category		Item	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
7.3.1.1.4.9/1B79 PRTR/309 Building Deactivation/Compliance	Labor \$		51	46	59	68	68	89	41	80	121	98	92	112	925
	Other \$		0	0	0	0	10	15	0	0	0	65	11	64	165
Monthly \$ Totals			51	46	59	68	78	104	41	80	121	163	103	176	1,090
FTEs			7	7	7	10	10	10	5	12	15	17	15	14	11
Comments:															

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3.D. Program Funding Required By Month												Note: \$ are in Thousands			
WBS Element/Cost Category	\$	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
ADS 6640/7.3.1.1 FFTF	OP	3,063	2,925	3,769	3,392	3,363	3,856	3,340	3,210	4,371	3,110	3,821	4,350	42,550	
	CE	4	3	1	0	0	0	0	0	0	0	0	183	191	
ADS 6642/7.3.1.2 FFTF Shutdown Construction	OP	365	328	432	357	348	456	364	364	438	328	364	385	4,529	
	OP	360	323	412	346	266	328	263	263	304	198	240	240	3,563	
ADS 6643/7.3.1.4 PRTR/309 Building	OP	100	90	115	115	125	165	90	129	180	212	167	257	1,745	
	OP	3,888	3,666	4,728	4,210	4,082	4,805	4,057	3,966	5,293	3,848	4,592	5,232	52,367	
Monthly \$ Totals	CE	4	3	1	0	0	0	0	0	0	0	0	183	191	
	GRAND TOTALS	3,892	3,669	4,729	4,210	4,082	4,805	4,057	3,966	5,293	3,848	4,592	5,415	52,558	
Comments: In addition to the above, estimated costs, it is intended to commit approximately \$5.8M during May to the procurement of the remaining ISCs. (See section 2.C.1.)															

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3.E. Program Funding by WBS							BUDGET VALUES (\$000)		
1996 SITE RL-WBS CODES	1996 WHC-FDS CODES	LEVEL	TITLE	MANAGER	PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT		
7.3.1	1B	ELEMENT	FFTF	Loika					
7.3.1.1	1B1	END FUNCTION	FFTF (ADS 6640)	Loika	42,741				
7.3.1.1.7	1B17	ACTIVITY	Program Integration	Loika		2,870			
7.3.1.1.7.01	1B1701	CA	Transition Project Office	Hulvey				2,870	
7.3.1.1.8	1B18	ACTIVITY	Surveillance & Maintenance	Loika		25,706			
7.3.1.1.8.01	2B1801	CA	CENRTC	Guttenberg					191
7.3.1.1.8.07	1B1807	CA	Operations	Doebler					5,953
7.3.1.1.8.08	1B1808	CA	Consumables	Doebler					2,775
7.3.1.1.8.09	1B1809	CA	Support Functions	Hulvey					3,769
7.3.1.1.8.10	1B1810	CA	Engineering	Guttenberg					3,289
7.3.1.1.8.11	1B1811	CA	Maintenance	Boehnke					6,622
7.3.1.1.8.13	1B1813	CA	Safeguards And Security	Walton					1,991
7.3.1.1.8.14	1B1814	CA	300 Area Fuel Oil Inventory Change	Montano					2
7.3.1.1.8.15	1B1815	CA	Other Materials Inventory Change	Montano					1
7.3.1.1.8.16	1B1816	CA	Various Inventory Change	Montano					41
7.3.1.1.8.18	1B1818	CA	Inventory - Spares	Montano					56
7.3.1.1.8.20	1B1820	CA	Regulatory Compliance	Miller					1,016

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3.E. Program Funding by WBS (continued)					MANAGER	BUDGET VALUES (\$000)		
1996 SITE RL-WBS CODES	1996 WHC-FDS CODES	LEVEL	TITLE			PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT
7.3.1.1.9	1B19	ACTIVITY	Deactivation/Compliance		Loika		14,165	
7.3.1.1.9.02	1B1902	CA	Transition Support Functions		Hulvey			2,096
7.3.1.1.9.03	1B1903	CA	Fuel Offload (except ISCs & CCCs)		Hulvey			5,424
			ISCs & CCCs					4,223
7.3.1.1.9.04	1B1904	CA	Na/Wak Removal & System Shutdown		Guttenberg			2,185
7.3.1.1.9.05	1B1905	CA	Support System Shutdown		Guttenberg			237
7.3.1.2	1B9	END FUNCTION	FFTF Shutdown Construction (ADS 6642)		Loika	4,529		
7.3.1.2.9	1B99	ACTIVITY	Deactivation/Compliance		Loika		4,529	
7.3.1.2.9.03	1B9903	CA	Project 03-F-031 Sodium Storage Facility		Guttenberg			4,529
7.3.1.3	1B6	END FUNCTION	NE Legacies (ADS 6641)		Loika	3,543		
7.3.1.3.8	1B68	ACTIVITY	Surveillance & Maintenance		Loika		857	
7.3.1.3.8.01	1B6801	CA	308 Building Surveillance		Danko			433
7.3.1.3.8.02	1B6802	CA	308 Building Operations		Danko			358
7.3.1.3.8.03	1B6803	CA	Legacy Occupancy		Guttenberg			66
7.3.1.3.9	1B69	ACTIVITY	Deactivation/Compliance		Loika		2,686	
7.3.1.3.9.01	1B6901	CA	TRIGA® Fuel Disposition		Danko			762

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3.E. Program Funding by WBS (continued)							
1996 SITE RL-WBS CODES	1996 WHC-FDS CODES	LEVEL	TITLE	MANAGER	BUDGET VALUES (\$000)		
					PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT
7.3.1.3.9.02	1B6902	CA	NE RCRA Closures	Miller			696
7.3.1.3.9.03	1B6903	CA	NE Legacies	Guttenberg			1,228
7.3.1.4	1B7	END FUNCTION	PRTR/309 Building (ADS 6643)	Bitten	1,745		
7.3.1.4.8	1B78	ACTIVITY	Surveillance & Maintenance	Bitten		655	
7.3.1.4.8.00	1B7800	CA	309 Building S&M	Bitten			655
7.3.1.4.9	1B79	ACTIVITY	Deactivation/Compliance	Bitten		1,090	
7.3.1.4.9.00	1B7900	CA	309 Building D/C	Bitten			1,090
GRAND TOTAL					52,558		

\$8.5M of this workscope is funded from FY 1995 carryover of committed funds. In addition to the above workscope, \$2M of FY 1995 carry-over funds and \$3.8M of FY 1996 funds will be obligated in FY 1996 toward purchase of the remaining ISCs. (Refer to section 2.C.1.)

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4. Glossary

ADS	Activity Data Sheet
AFFF	Aqueous Film Forming Foam
ALMS	Auxiliary Liquid Metal System
AMSF	Alkali Metal Storage Facility
ART	Advanced Reactors Transition
BEMR	Baseline Environmental Management Report
BPA	Bonneville Power Administration
CA	Cost Account
CENRTC	Capital Equipment Not Related To Construction
CCC	Core Component Container
CRADA	Cooperative Research and Development Agreement
D&D	Decontamination and Decommissioning
D/C	Deactivation/Compliance Actions
DFA	Driver Fuel Assembly
DHX	Dump Heat Exchanger
DOE	Department of Energy
EDS	Examination and Decontamination Services
EPA	Environmental Protection Agency
ERC	Environmental Restoration Contractor
FFTF	Fast Flux Test Facility
FSAR	Final Safety Analysis Report
FSF	Fuel Storage Facility
FTE	Full-Time Equivalent
FY	Fiscal Year
HAMTC	Hanford Atomic Metal Trades Council
HTS	Heat Transport System
HQ	Headquarters
HVAC	Heating Ventilating and Air Conditioning
IEMC	Interim Examination and Maintenance Cell
IDS	Interim Decay Storage
INEL	Idaho National Engineering Laboratory
ISA	Interim Storage Area
ISB	Interim Safety Basis
ISC	Interim Storage Cask
IX	Ion Exchange
JCS	Job Control System
LSFF	Large Sodium Fire Facility
M&TE	Measuring and Test Equipment
MASF	Maintenance and Storage Facility
MYPP	Multi-Year Program Plan
Na	Sodium
NaK	Sodium Potassium Alloy
NE	Nuclear Energy
NEPA	National Environmental Policy Act
NRF	Neutron Radiography Facility
PIC	Person-in-charge
PFP	Plutonium Finishing Plant
PRTR	Plutonium Recycle Test Reactor

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4. Glossary (continued)

QC	Quality Control
RCT	Radiological Control Technician
RL	DOE Richland Operations Office
RLA	Rupture Loop Annex
RLS	Resource Loaded Schedule
S&M	Surveillance and Maintenance
S/RID	Standards/Requirements Identification Document
SNF	Spent Nuclear Fuel
SNM	Special Nuclear Material
SSF	Sodium Storage Facility
TPA	Tri-Party Agreement
TRIGA®	Test Reactor and Isotope Production, General Atomics
TWRS	Tank Waste Remediation System
USQ	Unresolved Safety Question
WA-ECOLOGY	State of Washington Department of Ecology
WHC	Westinghouse Hanford Company
WBS	Work Breakdown Structure

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5. Distribution - Onsite

40	<u>RL</u>	
	R. A. Almquist (28)	N2-36
	R. C. Budzich	A7-89
	K. D. Cameron (2)	A5-04
	D. H. Chapin	N2-36
	T. H. Davies	N2-36
	O. A. Farabee	N2-36
	R. G. Hastings	N2-36
	J. E. Mecca	R3-81
	N. D. Moorer	R3-81
	L. L. Piper	R3-78
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Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

September 26, 1995

9555107

Mr. J. E. Mecca, Director
Transition Program Division
U.S. Department of Energy
Richland Operations Office
Richland, Washington 99352

Dear Mr. Mecca:

ADVANCED REACTORS TRANSITION FISCAL YEAR 1996 MULTI-YEAR PROGRAM PLAN FOR
WORK BREAKDOWN STRUCTURE 7.3

Attached is the WHC/DOE approved Advanced Reactors Transition Fiscal Year
(FY) 1996 Multi-Year Program Plan (MYPP). The attachment herein satisfies
the commitment to deliver an approved plan on or before September 26, 1995.

The attached MYPP scope/schedule/budget identifies \$52.6M worth of
workscope. Anticipated FY 1996 funding is \$47.14M. In addition,
approximately \$16M in funds will carry over from FY 1995. These carry over
funds include: \$6.1M for Sodium Storage Facility construction, and \$9.9M
for Interim Storage Cask procurement. Approximately \$5.5M of these funds
will be costed in FY 1996 as part of the \$52.6M workscope. All changes to
the scope/schedule/cost baselines in the MYPP will be managed through formal
change control.

Please direct any questions on this MYPP to Mr. R. K. Hulvey, on 376-0303,
or myself on 376-0758.

Very truly yours,

E. F. Loika, Director
FFTF Transition Project
Transition Projects

sst

Attachment

RL - R. A. Almquist	R. G. Hastings
R. C. Budzich	N. D. Moorer
K. D. Cameron	W. A. Rhulman
D. H. Chapin	S. D. Stites
T. H. Davis	A. H. Wirkkala (w/o attachment)
O. A. Farabee	

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c.c. PID
CFO
M&O Contractor

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