S

# ENGINEERING CHANGE NOTICE

Page 1 of 3

1. ECN 634247

Proj. ECN

| 2. ECN Category (mark one) | 3. Originator's Name, Organization, MSIN, and Telephone No. | 4. USQ Required? | 5. Date |
|---|---|---|---|
| Supplemental [] Direct Revision [X] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void [] | JI Forsberg, Transition Project Office, N2-13, 376-6999 | [X] Yes [] No | 9/19/96 |
| | 6. Project Title/No./Work Order No. ADVANCED REACTORS TRANSITION FY 1997 MYWP WBS 7.3 | 7. Bldg./Sys./Fac. No. N/A | 8. Approval Designator N/A |
| | 9. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-FF-SSP-052 Rev.1 | 10. Related ECN No(s). N/A | 11. Related PO No. N/A |

| 12a. Modification Work | 12b. Work Package No. | 12c. Modification Work Complete | 12d. Restored to Original Condition (Temp. or Standby ECN only) |
|---|---|---|---|
| [] Yes (fill out Blk. 12b) [X] No (NA Blks. 12b, 12c, 12d) | N/A | N/A<br>Design Authority/Cog. Engineer Signature & Date | N/A<br>Design Authority/Cog. Engineer Signature & Date |

13a. Description of Change

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

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

14a. Justification (mark one)

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

14b. Justification Details

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

15. Distribution (include name, MSIN, and no. of copies)

The distribution is shown on page 6.5-1 (6.0 Appendices) at the end of the attached FY 1997 ADVANCED REACTORS TRANSITION MYWP WBS 7.3 Revision 2.

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

A-7900-013-2 (05/96) GEF095

# ENGINEERING CHANGE NOTICE



1. ECN (use no. from pg. 1): 634247

| 16. Design Verification Required | 17. Cost Impact | | 18. Schedule Impact (days) |
|---|---|---|---|
| | ENGINEERING | CONSTRUCTION | |
| [ ] Yes | Additional [ ] $ | Additional [ ] $ | Improvement [ ] |
| [X] No | Savings [ ] $ | Savings [ ] $ | Delay [ ] |

19. 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 13. Enter the affected document number in Block 20.

| | | | | | |
|---|---|---|---|---|---|
| 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 | [ ] | | [ ] |

20. 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 |
|---|---|---|
| | | |

21. Approvals

| Signature | | Date | Signature | | Date |
|---|---|---|---|---|---|
| Design Authority | | | Design Agent | | |
| Cog. Eng. SH Crow | SH Crow | 9/19/96 | PE | | |
| Cog. Mgr. RK Hulvey | R K Hulvey | 9/20/96 | QA | | |
| QA | | | Safety | | |
| Safety | | | Design | | |
| Environ. | | | Environ. | | |
| Other EF Loika | E F Loika | 9/19/96 | Other JR Montano | J R Montano | 9/19/96 |
| Other JM Steffen | J M Steffen | 9/19/96 | | | |
| | | | | | |
| | | | DEPARTMENT OF ENERGY | | |
| | | | Signature or a Control Number that tracks the Approval Signature | | |
| | | | ADDITIONAL | | |
| | | | | | |
| | | | | | |

APPENDIX B
UNREVIEWED SAFETY QUESTION SCREENING FORM

REFERENCE ITEM # 634274
TITLE Issue ADVANCED REACTORS TRANSITION FY 1997 MYWP WBS 7.3 Revision 2

QUESTIONS
Does the referenced item:

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

NA___ No_X_ Yes/Maybe___

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

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

Basis:_____

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

Basis:_____

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

QUSQE #1 Douglas A. Gantt
(print name)
Douglas A. Gantt
Signature Date 9/19/96

QUSQE #2 Stephen H. Crow
(print name)
S H Crow
Signature Date 9/19/96

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

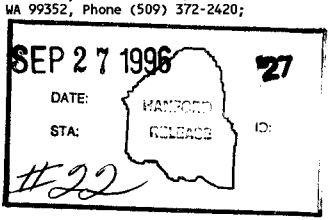
**R. K. Hulvey,** Manager, FFTF Transition Project Office
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

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

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

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






Bonnie Wallace 9/9/96
Release Approval Date Release Stamp

**Approved for Public Release**

| RECORD OF REVISION | (1) Document Number WHC-SD-FF-SSP-052 | Page 1 |
|---|---|---|

(2) Title

Advanced Reactors Transition Fiscal Year 1997 Multi-Year Work Plan WBS 7.3

CHANGE CONTROL RECORD

| (3) Revision | (4) Description of Change - Replace, Add, and Delete Pages | Authorized for Release | |
|---|---|---|---|
| | | (5) Cog. Engr. | (6) Cog. Mgr. Date |
| | (7) | | |
| RS 2 | Complete reissue of document per ECN 634247. | J. I. Forsberg | R. K. Hulvey |

A-7320-005 (08/91) WEF168

# FY 1997 Multi-Year Work Plan Approval Sheet

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

## Assistant Manager-Contracting Officer's Representative

P. A. Knollmeyer — 9/26/96 Date

9/25/96
J. E. Mecca — 9/26/96 Date

## Westinghouse Hanford Company

R. J. Bliss — 9/20/96 Date

E. F. Loika — 9/19/96 Date

Reviewed as FY 1997 Start Point

## Fluor Daniel Hanford, Inc.

L. Olguin — 9/25/96 Date

# ADVANCED REACTORS TRANSITION

**FY 1997 MYPP** **WBS 7.3**

## 1. Table of Contents

# ADVANCED REACTORS TRANSITION



# 1 TECHNICAL BASELINE

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

## 1.1 PROJECT MISSION

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

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

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

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

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

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

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

## 1.2 PROJECT END POINT TARGETS

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

### 1.2.1 End Point Targets

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

Table 1.2.1-1 End Point Targets

| | |
|---|---|
| 1 | **MDD, South 600, Interim 97x**<br>Transition the Fast Flux Test Facility to low-cost, stable deactivated condition by 4/2001 (consider 9/2000). |
| 2 | **MDD, South 600, Interim, 90**<br>Complete deactivation of the Nuclear Energy Legacy facilities by 9/2001 (consider 9/99). |

### 1.2.2 Technical Objectives

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

Table 1.2.2-1 Technical Objectives

| | |
|---|---|
| 1 | ART<br>· To safely disposition all hazardous and radioactive materials, and prepare facilities for a minimum cost surveillance and maintenance status. The FFTF Transition Project deactivation activities are necessary to bring the FFTF and related facilities to a safe shutdown state for turnover to the Environmental Restoration Contractor (ERC) organization.<br><br>· Continue implementing the FFTF Transition Project Plan in accordance with the RLS, in a cost effective manner while ensuring safety, security, and environmental compliance.<br><br>· Comply with the TPA milestones and target dates for the transitioning of FFTF to a shutdown state.<br><br>· 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.<br><br>· Complete construction of the SSF on an accelerated schedule by January 30, 1997.<br><br>· Maintain the PRTR/309 Building in a safe condition and in compliance with DOE Orders and environmental requirements.<br><br>· Continue transitioning the PRTR/309 Building in accordance with the RLS in a cost effective manner while ensuring safety and environmental compliance.<br><br>· 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).<br><br>· Maintain the Fuels and Materials Examination Facility (FMEF) in a safe standby condition. |

### 1.2.3 Safety Objectives

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

Table 1.2.3-1 Safety Objectives

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

## 1.3 SUMMARY-LEVEL FORECASTING DATA

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

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

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

Table 1.3.1-1 Waste Volume Inventory
(cubic meters)

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

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

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

Table 1.3.2-1 Nuclear Materials Inventory

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

### 1.3.3 Facilities (Excess, Deactivated)

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

Table 1.3.3-1 Facility Inventory

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

Table 1.3.3-1 Facility Inventory (Continued)

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

Table 1.3.3-1 Facility Inventory (Continued)

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

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

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

Table 1.3.4-1 Infrastructure Requirements - Average Demand

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

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

Table 1.3.4-2 Infrastructure Requirements - Peak Demand

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

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

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

## 1.4 DRIVERS

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

### 1.4.1 Key Drivers

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

Table 1.4.1-1 Key Drivers

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

### 1.4.2 Other Drivers

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

Table 1.4.2-2 Other Drivers

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

Table 1.4.2-2 Other Drivers (Continued)

| Name | Title |
|---|---|
| DOE/EA-0987 | Disposition of Alkali Metal Test Loops |
| DOE/EA-0993 | Shutdown of the Fast Flux Test Facility |
| WA7800089967 | Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit |
| WHC-SD-FF-MP-001 Rev. 1 | Hanford Site Sodium Management Plan |
| WHC-SD-MP-SRID-006 | Westinghouse Hanford Company Standard Requirements Identification Document for FFTF |
| WHC-SD-SP-SSP-001 Rev. 1 | 309 Building Transition Plan |
| WHC-SD-SSP-004 Rev. 2 | Fast Flux Test Facility Transition Project Plan |

## 1.5 FUNCTIONAL DEFINITIONS

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

### 1.5.1 Dispose of FFTF

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

Table 1.5.1-1 Dispose of FFTF Functions

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

### 1.5.2 Dispose of Nuclear Energy Legacies

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

Table 1.5.2-1 Dispose of Nuclear Energy Legacies Functions

| Number | Name / Description |
|---|---|
| 4.1.1.13 | **Deactivate Nuclear Energy Legacies**<br>Remove and dispose hazardous materials; excess or dispose of test loops piping and components; remove hazardous materials by cleaning, to the maximum extent practical, any components which must remain in place. Maintains NE Legacy facilities in a safe and compliant condition. NE Legacy facilities include FMEF, 308 Building, 335/335A Building, 337 Highbay, 3718-M Building, 3718-F Building, and 4843 Building. |
| 4.1.1.13.1 | **Disposition alkali metals**<br>Remove non-radioactive sodium and sodium-potassium alloy (NaK) from NE Legacies test loops. Ship to off site users. |
| 4.1.1.13.2 | **Disposition Test Loops**<br>Dismantle sodium test loops in the Hanford 300 Area and in 221T building in the 200W Area. Dispose of piping and components. Clean any large components being left in place. |
| 4.1.1.13.3 | **Cleanup former Treatment, Storage, Disposal (TSD) sites**<br>Complete cleanup and remediation activities in designated TSD sites as required by the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit. Applicable TSDs are building 4843, Alkali Metal Storage Facility, and 3718-F, Alkali Metal Treatment and Storage Facility. |

### 1.5.3 Dispose of 309 Building

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

Table 1.5.3-1 Dispose of 309 Building Functions

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

## 1.6 PROJECT LIFE-CYCLE REQUIREMENTS

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

# ADVANCED REACTORS TRANSITION



## 1.6.1 Dispose of FFTF

### 1.6.1.1 Deactivate FFTF

Table 1.6.1.1-1 Deactivate FFTF Requirements

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

## 1.6.2 Dispose of Nuclear Energy Legacies

### 1.6.2.1 Deactivate Nuclear Energy Legacies

Table 1.6.2.1-1 Deactivate Nuclear Energy Legacies Requirements

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

### 1.6.3 Dispose of 309 Building

1.6.3.1 Deactivate 309 Building (PR)

Table 1.6.3.1-1 Deactivate 309 Building (PR) Requirements

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

## 1.7 PROJECT ISSUES AND ASSUMPTIONS

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

Table 1.7-1 Issues That Affect The Project

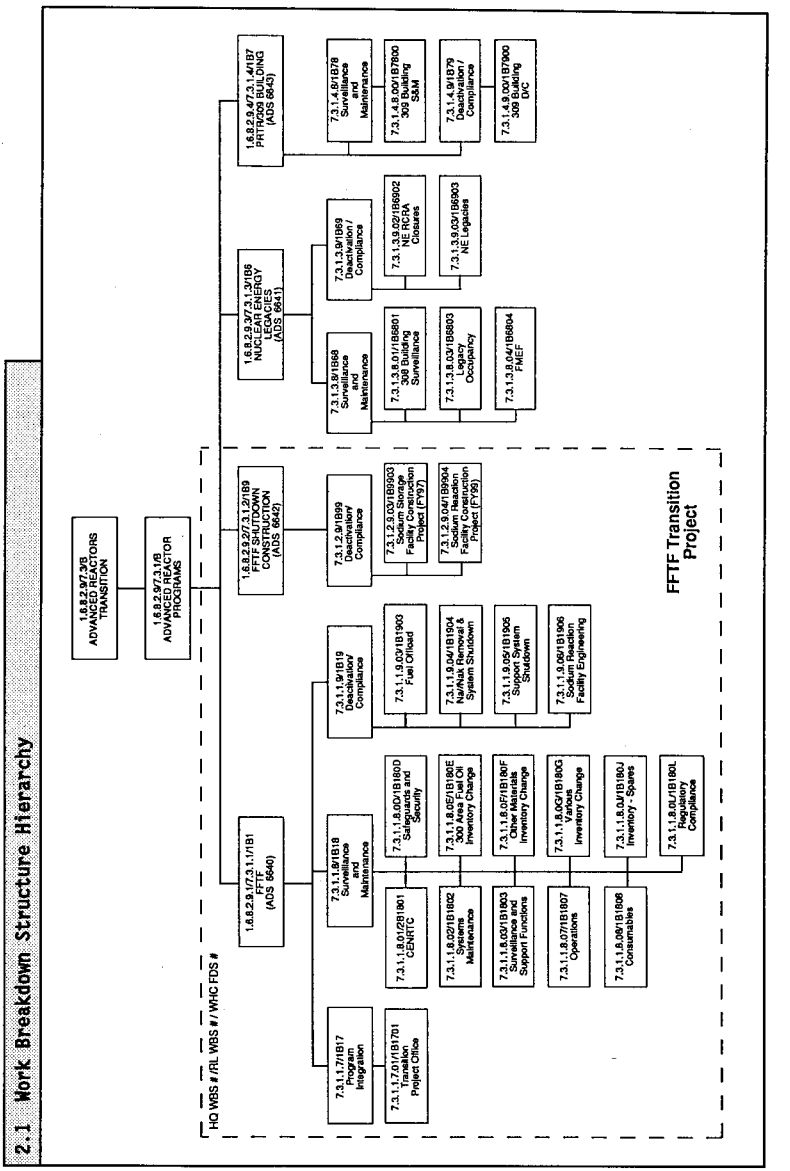
| ISSUE | | INTERIM DECISION | CHAMPION |
|---|---|---|---|
| 1 | ART MDD Activity Dates<br>The ART baseline dates approved by the DOE-RL Assistant Manager for Facility Transition are not consistent with those shown in the June 1996 edition of the Draft Hanford Mission Direction Document. | ART baseline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

## 1.7.1 Project Issues and Assumed Resolutions

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

FY 1997 MYWP

# ADVANCED REACTORS TRANSITION
## WBS 7.3



# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1 | FFTF (ADS 6640) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.2 | FFTF Shutdown Construction (ADS 6642) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

This WBS provides for the construction of SSF that will provide an interim storage location for the FFTF sodium and NaK. It also provides for the construction of the SRF that will convert the FFTF sodium to a suitable waste form.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3 | Nuclear Energy Legacies (ADS 6641) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

This WBS describes four main areas: 1) Building 308; 2) Fuels and Materials Examination Facility (FMEF); 3) NE Resource Conservation and Recovery Act (RCRA) Closures; and 4) NE Legacies.

The Building 308 work scope is limited to surveillance and maintenance of the facility.

The FMEF work scope is limited to surveillance and maintenance of the facility. The FMEF is a seismically qualified "clean" facility that is being held in standby, waiting a possible mission. Revenue to partially offset the standby expenses is generated by leasing office and floor space to other Hanford Site organizations.

NE RCRA Closures provides for the environmental management of NE hazardous waste facilities. This sub-activity addresses the base program responsibilities associated with these NE facilities that currently manage, or have managed, hazardous materials. The facilities under RCRA closure plans are: 1) the 105-DR Large Sodium Fire Facility (LSFF); 2) the 4843 Alkali Metal Storage Facility (AMSF); and 3) the 3718-F Alkali Metal Treatment and Storage Facility.

NE Legacies involves the strategy development and implementation program for ultimate disposition of DOE NE non-reactor facilities and associated materials/equipment. Specific tasks include, provide coordination/oversight for program implementation, evaluate disposition of miscellaneous facility-specific items, prioritize and perform facility disposition engineering studies and the NEPA documentation, and conduct disposition of facilities in accordance with CRADA, including the sodium inventory, where applicable. This activity also provides funding for legacy occupancy landlord services for the Building 337 Highbay basement and buildings 335 and 3718M.

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP WBS 7.3

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.4 | PRTR/309 Building (ADS 6643) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

This WBS describes the major elements and project baseline to characterize and stabilize the PRTR/309 Building for long-term layup while awaiting the D&D phase.

The PRTR/309 Building work scope includes the surveillance and operation of the facility subject to DOE Orders and federal codes for radiological facilities. The deactivation and compliance activities prepare the building for acceptance by EM-40 for long-term surveillance and maintenance pending decontamination and decommissioning. Activities will dispose of equipment, components, and waste products associated with the PRTR reactor systems, including all nonessential systems (e.g., heating ventilating and air conditioning (HVAC), electrical distribution, monitoring, and fluid), which will be shutdown and drained or de-energized. The process, laboratory, and office areas of the facility will be secured to convert the facility to a minimum safe S&M condition for turnover to an ERC for long-term interim surveillance preparatory to a final D&D phase.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.7.01 | Transition Project Office |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

Provide planning and administration of FFTF transition to shutdown; communication with the DOE; and other special activities, as needed. Manage reserved funds required to pay for accomplishment of Performance Based Fee actions.

Plan, direct, and monitor FFTF transition to shutdown and turnover to ERC. Perform program integration, including development and maintenance of the work breakdown structure, logic diagrams, and upper tier schedules to establish baselines for the preparation of resource loaded schedules and cost estimates. Make assignments to performing organizations. Maintain Transition Project files. Administer FSAR documentation and coordinate resolution of related issues. Administer the FFTF End Point Program. Provide business accounting and performance measurement functions for the execution year. Provide business and financial support and out-year program planning including, coordination of responses to review bodies appraising the safety of facility operations, review of safety related rule making actions for applicability to FFTF and their implementation, coordination and preparation of ADSs for the MYWP, preparation of required Hanford Site Management System documents, and respond to numerous DOE requests (e.g., budget exercises, white papers, special schedules, etc.).

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.01 | S&M/CENRTC |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 35-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 the project to cover equipment emergencies. Also, CENRTC funds are needed for the purchase of new equipment to assure compliance with new regulations and requirements.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.02 | S&M/Systems Maintenance |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 activities to perform surveillance and maintenance for specific systems at FFTF, FSF, MASF, and 400 Area support buildings. Activities include: provide qualified personnel to prepare, approve, and perform corrective and preventive maintenance activities; provide Person-in-Charge (PIC) supervision of field work; provide material requisition, receipt, storage, and work site issuance; manage the Measurement & Test Equipment (M&TE), tools, and spare parts programs; provide landscaping, general housekeeping services, and transportation support for the movement of equipment and materials; provide operating procedure processing and validation. Personnel assigned to activities in this cost account have expertise in areas such as maintenance, engineering, quality assurance, safety, and health physics.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.03 | S&M/Surveillance and Support Functions |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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

Activities to support the general surveillance and maintenance of FFTF, MASF, and related 400 Area support buildings. Activities include: provide Safety, Quality Assurance, and Health Physics surveillances, assessments, and oversight; provide training and qualification program for operations, maintenance, and other project staff; provide 400 Area building administration, FFTF personnel security program administration, Management Overview Program administration, and FFTF tour coordination; provide warehousing services for FFTF spare parts and equipment; provide administration of configuration management systems. Administer the FFTF S/RID, Emergency Preparedness, Criticality Safety, and Technical Specification surveillance programs. Conduct periodic Facility Evaluation Board assessments. Apply the re-engineering process during FY97. Perform tritium production mission evaluation and planning activities.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.07 | S&M/Operations |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

Operate the FFTF, MASF, and FSF systems in a safe, efficient, and environmentally compliant manner; provide review and approval support for surveillance and maintenance work packages, design changes, and review committees; monitor, control, and record equipment operations; investigate and respond to system abnormalities; attend training classes and maintain accreditation; maintain control of maintenance and ensure personnel protection through lockouts and tagouts; and conduct post maintenance tests to ensure equipment is restored to design configurations.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.08 | S&M/Consumables |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management.

B. TECHNICAL CONTENT/WORK STATEMENT

S&M Consumables activities include: maintenance of the Bonneville Power Administration (BPA) supplied electrical service; adequate plant fuel oil supply; inert gas inventories at a level that ensures FFTF is maintained in a safe condition to support FFTF D/C activities; maintain an adequate level of consumables to support FFTF Operations, including safety equipment, special tools and equipment; and provide for FFTF Operations offsite training.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.00 | S&M/Safeguards and Security |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

S&M Safeguards and Security provides: an effective patrol force, physical security and associated equipment, safeguards oversight and services, and annual security assessments.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.0E | S&M/300 Area Fuel Oil Inventory Change |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.0F | S&M/Other Materials Inventory Change |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Materials/Equipment and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

S&M Inventory - Other Materials provides funding for the net inventory change in the 1681 (Inventory) General Ledger sub-accounts for other special materials, primarily gold, silver, and platinum used in the 300 Area laboratories.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.0G | S&M/Various Inventory Change |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Materials/Equipment and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

S&M Inventory - Various provides funding for the net inventory change in the 1691 (Inventory) and 1711 (Reserve) General Ledger spare parts sub-accounts at MASF, FFTF, Security, Computers, and the 300 Area.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.0J | S&M/Inventory - Spares |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.8.0L | S&M/Regulatory Compliance |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

S&M regulatory compliance activities include: Conduct FFTF, MASF, and FSF operations in a manner to ensure compliance with applicable environmental regulations and DOE Orders; maintain the environmental specifications program in support of base operations; conduct waste handling and disposition activities in support of base operations; support regulatory sampling, surveillance, and reporting requirements; provide review and approval support for S&M work packages, design changes, and review committees; support hazardous material programs, administer the "Hazards Communications" program; maintain satellite waste collection areas for maintenance waste streams.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.9.03 | D/C - Fuel Offload |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

Offload all fueled components from within FFTF and place them in interim storage. Activities in these areas include: Oversee the procurement and testing of ISCs and CCCs; prepare and approve detailed refueling plans and IEMC work plans; perform remaining criticality evaluations; conduct operational readiness assessments; operate and maintain the refueling equipment; provide engineering, maintenance, and operations support for fueled component handling, washing, packaging, and shipping operations; assemble FFTF fuel assembly data packages; preserve FFTF nuclear equipment performance data and documentation.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.9.04 | D/C - Na/NaK Removal and System Shutdown |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

Remove Na and NaK liquid metal from the FFTF systems and vessels. Activities include the following: systems engineering, work instruction and procedure development, and field performance for drain activities and shutdown of sodium related systems; evaluate and determine optimum Na/NaK removal process; perform acceptance testing for the sodium storage facility.

Sodium will not be placed in the SSF until directed by the DOE to drain the FFTF liquid metal system.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.9.05 | D/C - Support System Shutdown |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Labor, Materials, Purchased Services, Other Contractors, Site Services, Internal Charges, Information Resource Management, and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

Shutdown affected FFTF systems and equipment following the completion of key transition activities such as secondary sodium drain, primary sodium drain, and FSF vessel and IDS vessel sodium drain. Provide the following activities: systems engineering, work instruction and procedure development, field performance, and disposition of resources and hazardous materials such as chemicals, transformer cooling fluids, and fuel oil.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.1.9.06 | D/C - Sodium Reaction Facility Engineering |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 Sodium Reaction Facility (SRF) will be used to react sodium that will be stored as a solid in the Sodium Storage Facility (SSF). The final design of the SRF will depend upon the outcome of TWRS Milestone M-50-03 (March 31, 1998), which will determine if the SRF will produce a solid waste for burial at Hanford, or produce sodium hydroxide for use in the Hanford TWRS. The SRF will be located adjacent the FFTF plant.

The work activities include the functional design criteria and conceptual design report, engineering support during the design, construction and turnover of the SRF to the facility owner for operational testing and beneficial use.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.2.9.03 | Sodium Storage Facility Construction Project (FY97) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 the Sodium Storage Facility (SSF) that is located adjacent to the FFTF plant. The SSF will receive and store sodium transferred from the FFTF heat transport systems and reactor fuel storage vessels. The sodium will contain trace quantities of potassium due to transfer of NaK from various cooling loops.

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 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.2.9.04 | Sodium Reaction Facility Construction Project (FY99) |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 the Sodium Reaction Facility (SRF). The SRF will be located along side of the Sodium Storage Facility which is adjacent to the FFTF plant.

The work activities include definitive design and construction, construction management, and satisfying the safety, quality assurance and environmental requirements for the reaction of sodium into a material suitable for permanent disposition at Hanford. The configuration and construction of the SRF will depend upon the outcome of TWRS Milestone M-50-03 (March 31, 1998), which will determine if the SRF will produce a solid waste for burial at Hanford, or produce sodium hydroxide for use in the Hanford TWRS.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3.8.01 | 308 Building Surveillance |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | EX-70 |

12 ELEMENT TASK DESCRIPTION

A. COST CONTENT

Other Contractors and Overheads.

B. TECHNICAL CONTENT/WORK STATEMENT

This activity provides for the environmental and safety compliance envelope of Building 308, in the Hanford 300 Area.

The Environmental Restoration Contractor (ERC) will be funded to perform periodic monitoring/sampling to assure that safety and environmental requirements are being met. This includes radiological and safety monitoring, and building administration. Ownership of the building and technical responsibility will be transferred to the ERC in early FY 1997, if not before.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3.8.03 | Legacy Occupancy |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 Building 337 Highbay basement; and buildings 335 and 3718M.

Approximately 3-times per week perform a walk-through inspection of the sodium systems located in Building 337 Highbay basement and Building 3718M. Provide electrical power and electrical maintenance for buildings 335, 335A, 3718M, and 337 Highbay. Provide inert gas for sodium system protection. Provide building emergency support for buildings containing sodium.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3.8.04 | FMEF |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 management, engineering, maintenance, and utilities in accordance with approved procedures, DOE Orders, and federal/state environmental requirements. The Fuels and Materials Examination Facility (FMEF) work scope is limited to surveillance and maintenance of the facility.

The FMEF is a seismically qualified "clean" facility that is being held in standby, waiting a possible mission. Revenue to partially offset the standby expenses is generated by leasing office and floor space to other Hanford Site organizations.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3.9.02 | NE RCRA Closures |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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: 1) the 105-DR LSFF; 2) the 4843 AMSF; and 3) the 3718-F Alkali Metal Treatment and Storage Facility. These three facility RCRA closure plans were submitted to WA-Ecology and EPA between 1991 and 1992. The closure plan submittals meet the three respective TPA milestones.

Field work is complete at all three locations, except for additional sampling that must be performed at the 3718-F Alkali Metal Treatment and Storage Facility. Both 4843 and 3718-F need to be certified "clean" for closure, then the State of Washington will accept these closures. The certification of the partial "clean" closure of 105-DR LSFF has been accepted by Washington State and efforts are underway to revise the RCRA permit and transition the facility over to the ERC.

The 221-T Containment System Test Facility (CSTF) and Building 437, Maintenance and Storage Facility (MASF), must be procedurally closed.

During the closure process, each facility must be monitored as a hazardous material location, until the Hanford Facilities RCRA permit has been modified. Following acceptance of the closures, the Hanford Facilities RCRA permit must be modified to reflect the status of the facilities.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.3.9.03 | NE Legacies |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.4.8.00 | 309 Building S&M |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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.

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.2 WBS Dictionary (continued)

### WORK BREAKDOWN STRUCTURE DICTIONARY

| 1 PROJECT TITLE/PARTICIPANT | 2 DATE | 3 IDENTIFICATION NO. |
|---|---|---|
| Advanced Reactors Transition/WHC | 9/24/96 | N/A |

| 4 WBS ELEMENT CODE | 5 WBS ELEMENT TITLE |
|---|---|
| 7.3.1.4.9.00 | 309 Building D/C |

| 6 INDEX LINE NO. | 7 REVISION NO AND AUTHORIZATION | 8 DATE |
|---|---|---|
| | 0 | |

9 APPROVED CHANGES

| 10 SYSTEM DESIGN DESCRIPTION | 11 BUDGET AND REPORTING NUMBER |
|---|---|
| N/A | 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 will move the facility towards turnover to the ERC for interim S&M and final D&D. Activities to be accomplished include disposition the underground emergency diesel fuel oil tank; characterize, cleanout, and stabilize the Transfer Waste Tank farm, the Rupture Loop Annex, the Fuel Storage Basin, the Fuel Examination Cell, the Fuel Transfer Basin, and the PRTR reactor cavity; replace the H&V system HEPA filters; disconnect and cap sanitary and process sewer lines. Completion reports will be prepared for key activities.

The facility Safety Basis document will be formatted in the Interim Safety Basis (ISB) style but of lesser scope to be consistent with the graded approach philosophy of a radiological facility rather than a nuclear facility.

# ADVANCED REACTORS TRANSITION

WBS 7.3

## 2.3 WBS Responsibility Assignment Matrix

### DOE-HQ

| Technical | Programmatic |
|---|---|
| Bob Lang (NE) | Beth Bilson (EM) |
| Shane Johnson (NE) | Jim Ahlgrimm (EM) |

### DOE-RL

John Wagoner, Manager

Peter Knollmeyer, Acting Assistant Manager, Facilities

Jim Mecca, Director, Transition Program Division

Al Farabee, FFTF Program Manager

### WHC

Ed Loika, Director, FFTF Transition Project

Jim Steffen, Manager, Fuel Fabrication Facilities Transition Project

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 2.3.a WBS Responsibility Assignment Matrix - ADS 6640

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP WBS 7.3

## 2.3.b WBS Responsibility Assignment Matrix - ADS 6641

| PROGRAM ELEMENT | RL WBS NUMBER | WHC ACTIVITY | WHC COST ACCOUNT | TITLE | RESPONSIBLE MANAGER | RESPONSIBLE ORGANIZATION |
|---|---|---|---|---|---|---|
| 6641 | 7.3.1.3.8.01 | 1B68 | 1B6801 | 308 Building Surveillance | Bitten | 19100 Advanced Fuel Facilities Transition |
| 6641 | 7.3.1.3.8.03 | 1B68 | 1B6803 | Legacy Occupancy | McCargar | 18200 FFTF Engineering |
| 6641 | 7.3.1.3.8.04 | 1B68 | 1B6804 | FMEF | Bitten | 19100 Advanced Fuel Facilities Transition |
| 6641 | 7.3.1.3.9.02 | 1B69 | 1B6902 | NE RCRA Closures | Dillhoff | 18700 FFTF Technical Support |
| 6641 | 7.3.1.3.9.03 | 1B69 | 1B6903 | NE Legacies | McCargar | 18200 FFTF Engineering |

## 2.3.c WBS Responsibility Assignment Matrix - ADS 6642

| PROGRAM ELEMENT | RL WBS NUMBER | WHC ACTIVITY | WHC COST ACCOUNT | TITLE | RESPONSIBLE MANAGER | RESPONSIBLE ORGANIZATION |
|---|---|---|---|---|---|---|
| 6642 | 7.3.1.2.9.03 | 1B99 | 1B9903 | SSF Construction Project | McCargar | 18200 FFTF Engineering |
| 6642 | 7.3.1.2.9.04 | 1B99 | 1B9904 | SRF Construction Project | McCargar | 18200 FFTF Engineering |

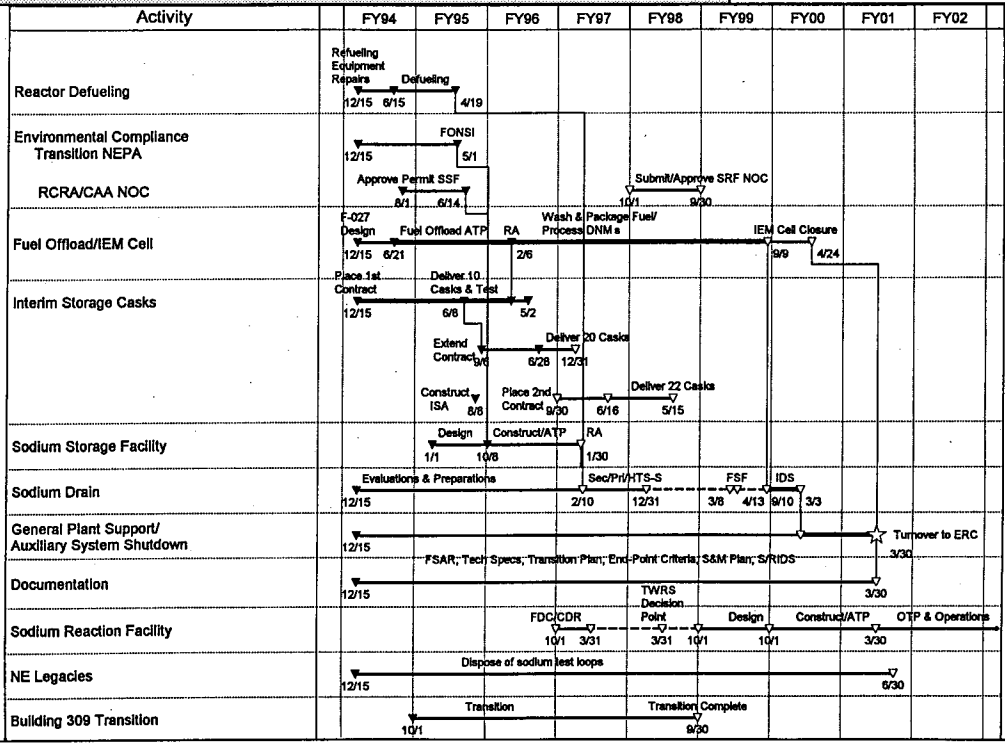
## 2.3.d WBS Responsibility Assignment Matrix - ADS 6643

| PROGRAM ELEMENT | RL WBS NUMBER | WHC ACTIVITY | WHC COST ACCOUNT | TITLE | RESPONSIBLE MANAGER | RESPONSIBLE ORGANIZATION |
|---|---|---|---|---|---|---|
| 6643 | 7.3.1.4.8 | 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 |

# ADVANCED REACTORS TRANSITION

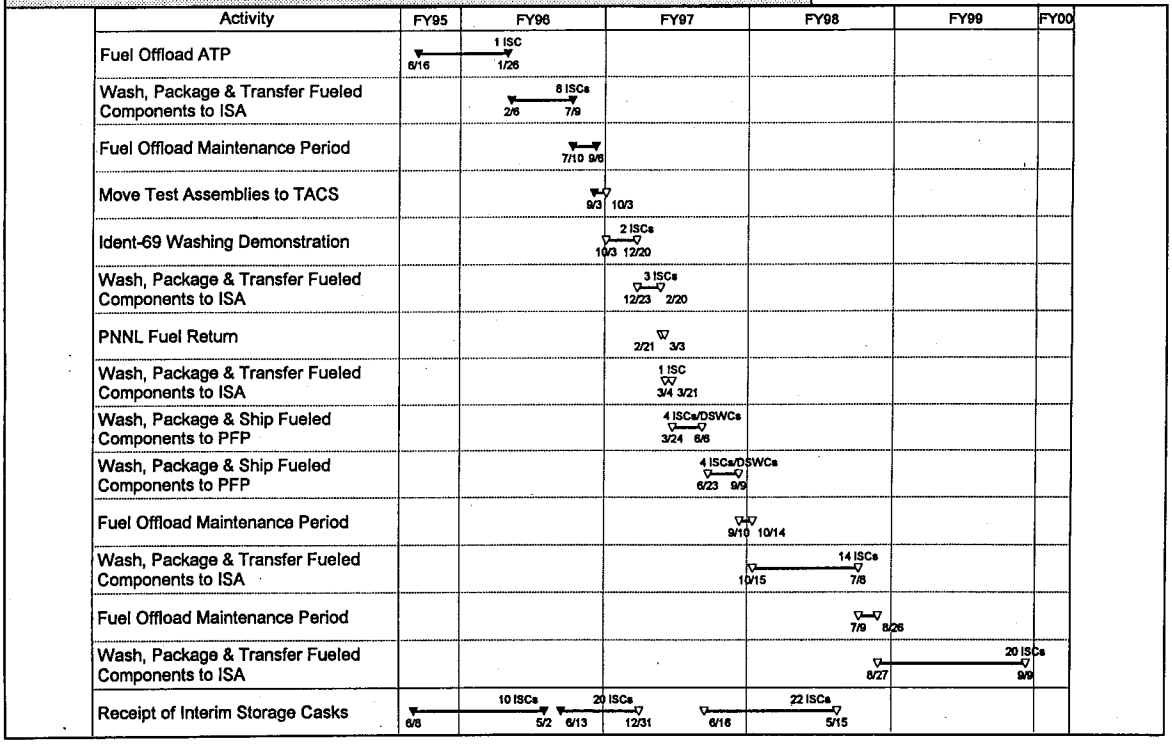
WBS 7.3

## 3.1 Project Master Baseline Schedule



# ADVANCED REACTORS TRANSITION
## WBS 7.3

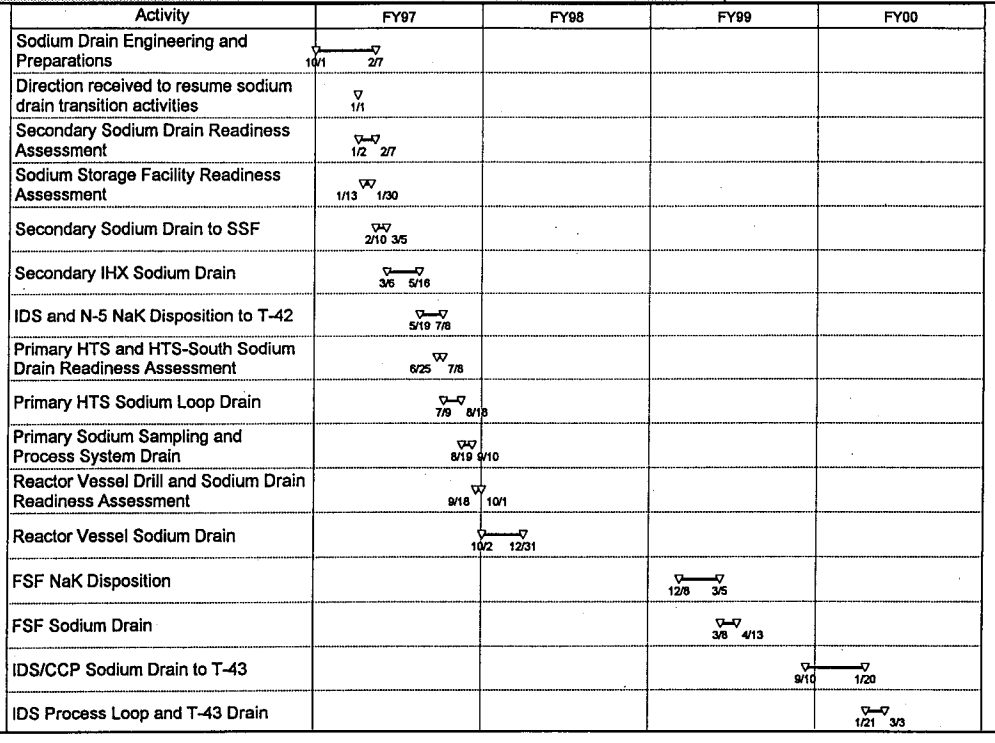
### 3.1.1 Wash and Package Schedule for Fueled Components



# ADVANCED REACTORS TRANSITION

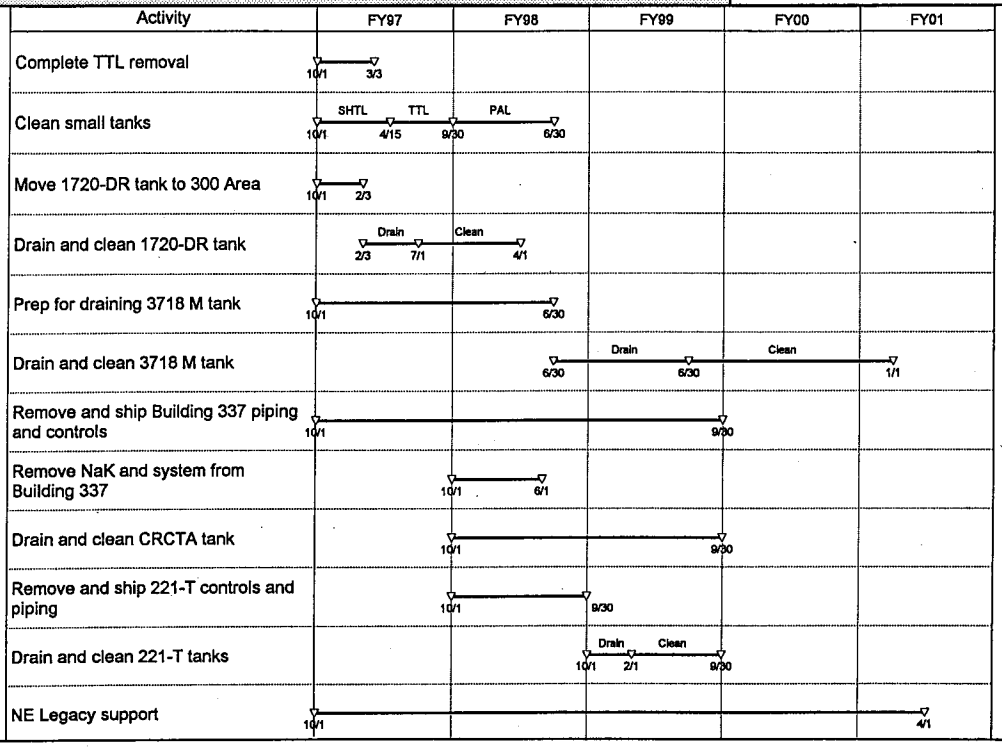
WBS 7.3

## 3.1.2 Schedule for Sodium Drain



# ADVANCED REACTORS TRANSITION
WBS 7.3

## 3.1.3 Schedule for NE Legacies



# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.a Milestone List for ADS 6640

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.a Milestone List for ADS 6640 (continued)

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

**3.2.a Milestone List for ADS 6640 (continued)**

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

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.a Milestone List for ADS 6640 (continued)

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

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.b Milestone List for ADS 6641

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

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.c Milestone List for ADS 6642

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

### 3.2.d Milestone List for ADS 6643

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.e Milestones List for Tri-Party Agreement

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

### 3.2.e Milestones List for Tri-Party Agreement

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

| **3.3 Milestone Description Sheet** | | | |
|---|---|---|---|
| Title: Update the Advanced Reactors Transition Resource Loaded Schedule | | | Date: 9/24/96 |
| Assigned To: R. K. Hulvey | | | CIN: |
| Program WBS Designator: 7.3.1.1.7.01 | | | Due Date: 10/31/96 |
| Control Number: B17-97-101 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☒ Report<br>☐ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ 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<br><br>R. K. Hulvey | | Program/Project Manager<br><br>R. K. Hulvey | |
| Program Element Manager<br><br>E. F. Loika | | | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Complete the FFTF IDENT-69 Washing Demonstration | | | Date: 9/24/96 |
| Assigned To: S. W. Hiller | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.03 | | | Due Date: 12/20/96 |
| Control Number: B19-97-301 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☐ Report<br>☐ Letter<br>☐ Drawings<br>☒ Other (specify)<br>Site Management System monthly report | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Perform the IDENT-69 Washing Demonstration which supports the FFTF Fuel Offload Program. This activity will wash a minimum of six IDENT-69 pin containers and place them in two FFTF Core Component Containers (CCC). Once the wash demonstration is complete, the two partially filled CCCs will be filled with additional washed FFTF fueled components, placed in two FFTF Interim Storage Casks (ISC), and transferred to the 400 Area Interim Storage Area (ISA).

Description of what constitutes completion of this milestone: Two more loaded FFTF ISCs have been transferred to the 400 Area ISA.

| | |
|---|---|
| Cost Account Manager<br><br>W. V. Witherspoon | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | |
|---|---|
| Title: Complete the FFTF Group 2 systems shutdown | Date: 9/24/96 |
| Assigned To: S. V. Doebler | CIN: |
| Program WBS Designator: 7.3.1.1.9.05 | Due Date: 1/22/97 |
| Control Number: B19-97-501 | Rev: 0 |

| MILESTONE TYPE: | DIVISION: | DELIVERABLE: | ADDRESS TO: |
|---|---|---|---|
| ☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | ☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | ☐ Report<br>☒ Letter<br>☐ Drawings<br>☐ Other (specify) | ☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Shut down the Group 2 systems.

Note: Once a system has been shut down, one or more of the following conditions will/may exist:

- Poses no hazards
- Requires minimal maintenance
- May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc.
- Cannot be operated
- Causes no locked-in alarms

Description of what constitutes completion of this milestone: The Group 2 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.

| | |
|---|---|
| Cost Account Manager<br><br>S. Guttenberg | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Issue report documenting FFTF Near Full Scale Drill Testing | | | Date: 9/24/96 |
| Assigned To: T. M. Burke | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.04 | | | Due Date: 4/01/97 |
| Control Number: B19-97-403 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☒ Report<br>☐ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Prepare a report documenting the results and conclusion of the near full scale (Phase III) testing of the reactor inlet plenum drill equipment. This report shall also document, in detail, the Phase I and II test results which were previously summarized in WHC-SD-FF-ER-106, "FFTF Reactor Vessel Sodium Drain - Options and Recommendations."

Description of what constitutes completion of this milestone: Submit a copy of the test report to RL.

| | |
|---|---|
| Cost Account Manager<br><br>T. M. Burke | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Complete the FFTF Group 3 systems shutdown | | | Date: 9/24/96 |
| Assigned To: S. V. Doebler | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.05 | | | Due Date: 4/09/97 |
| Control Number: B19-97-502 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☐ Report<br>☒ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Shut down the Group 3 systems.

Note: Once a system has been shut down, one or more of the following conditions will/may exist:

- Poses no hazards
- Requires minimal maintenance
- May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc.
- Cannot be operated
- Causes no locked-in alarms

Description of what constitutes completion of this milestone: The Group 3 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.

| | |
|---|---|
| Cost Account Manager<br><br>S. Guttenberg | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

**3.3 Milestone Description Sheet (continued)**

| | |
|---|---|
| Title: Drain the FFTF Heat Transport System primary sodium loops | Date: 9/24/96 |
| Assigned To: T. M. Burke | CIN: |
| Program WBS Designator: 7.3.1.1.9.04 | Due Date: 8/18/97 |
| Control Number: B19-97-406 | Rev: 0 |

| MILESTONE TYPE: | DIVISION: | DELIVERABLE: | ADDRESS TO: |
|---|---|---|---|
| ☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | ☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | ☐ Report<br>☐ Letter<br>☐ Drawings<br>☒ Other (specify)<br>Site Management System monthly report | ☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Drain the FFTF primary Heat Transport System (HTS) (excluding the auxiliary sodium systems and reactor vessel) to the Sodium Storage Facility (SSF). Draining of the auxiliary sodium systems and reactor vessel are covered by separate milestones.

Description of what constitutes completion of this milestone: The primary HTS, excluding the sodium process and sampling systems and reactor vessel, are drained to the SSF to the maximum extent possible. Sodium residuals are frozen and inerted. The primary sodium storage tank will contain a minimum heel pending completion of the auxiliary sodium systems, reactor and Interim Decay Storage vessel drains.

| | |
|---|---|
| Cost Account Manager<br><br>T. M. Burke | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Ship five FFTF Disposable Solid Waste Casks and three FFTF Interim Storage Casks containing 53 FFTF fueled components to the Plutonium Finishing Plant Protected Area | | | Date: 9/24/96 |
| Assigned To: S. V. Doebler | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.03 | | | Due Date: 9/09/97 |
| Control Number: B19-97-303 | | | Rev: 0 |
| MILESTONE TYPE:<br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br>☐ Report<br>☐ Letter<br>☐ Drawings<br>☒ Other (specify)<br>Site Management System monthly report | ADDRESS TO:<br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |
| Milestone Description: Wash, package and ship 53 FFTF fueled components in concrete casks to the Plutonium Finishing Plant (PFP). | | | |
| Description of what constitutes completion of this milestone: Five FFTF Disposable Solid Waste Casks and three FFTF Interim Storage Casks have been shipped to the PFP Protected Area for interim storage. | | | |
| Cost Account Manager<br>W. V. Witherspoon | | Program/Project Manager<br>R. K. Hulvey | |
| Program Element Manager<br>E. F. Loika | | | |

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

| **3.3 Milestone Description Sheet (continued)** | | | |
|---|---|---|---|
| Title: Update the Advanced Reactors Transition Resource Loaded Schedule | | | Date: 9/24/96 |
| Assigned To: R. K. Hulvey | | | CIN: |
| Program WBS Designator: 7.3.1.1.7.01 | | | Due Date: 10/31/97 |
| Control Number: B17-98-104 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☒ Report<br>☐ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ 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<br><br>R. K. Hulvey | | Program/Project Manager<br><br>R. K. Hulvey | |
| Program Element Manager<br><br>E. F. Loika | | | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

**3.3 Milestone Description Sheet (continued)**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Update the Advanced Reactors Transition Resource Loaded Schedule | | | Date: 9/24/96 |
| Assigned To: R. K. Hulvey | | | CIN: |
| Program WBS Designator: 7.3.1.1.7.01 | | | Due Date: 10/31/98 |
| Control Number: B17-99-103 | | | Rev: 0 |
| MILESTONE TYPE:<br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br>☒ Report<br>☐ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ 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<br><br>R. K. Hulvey | | Program/Project Manager<br><br>R. K. Hulvey | |
| Program Element Manager<br><br>E. F. Loika | | | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Complete the FFTF Group 4 systems shutdown | | | Date: 9/24/96 |
| Assigned To: S. V. Doebler | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.05 | | | Due Date: 2/11/99 |
| Control Number: B19-99-501 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☐ Report<br>☒ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Shut down the Group 4 systems.

Note: Once a system has been shut down, one or more of the following conditions will/may exist:

- Poses no hazards
- Requires minimal maintenance
- May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc.
- Cannot be operated
- Causes no locked-in alarms

Description of what constitutes completion of this milestone: The Group 4 systems listed in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.

| | |
|---|---|
| Cost Account Manager<br><br>S. Guttenberg | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP WBS 7.3

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | | | |
|---|---|---|---|
| Title: Complete the FFTF Group 5 systems shutdown | | | Date: 9/24/96 |
| Assigned To: S. V. Doebler | | | CIN: |
| Program WBS Designator: 7.3.1.1.9.05 | | | Due Date: 4/30/99 |
| Control Number: B19-99-502 | | | Rev: 0 |
| MILESTONE TYPE:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | DIVISION:<br><br>☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | DELIVERABLE:<br><br>☐ Report<br>☒ Letter<br>☐ Drawings<br>☐ Other (specify) | ADDRESS TO:<br><br>☐ DOE-HQ<br>☒ DOE-RL<br>☐ Other (specify) |

Milestone Description: Shut down the Group 5 systems.

Note: Once a system has been shut down, one or more of the following conditions will/may exist:

- Poses no hazards
- Requires minimal maintenance
- May not place the system in its end state for D&D; e.g., not all fluids drained/flushed, tanks not removed, etc.
- Cannot be operated
- Causes no locked-in alarms

Description of what constitutes completion of this milestone: The systems listed for Group 5 in the FFTF Transition Project Plan WHC-SD-FF-SSP-004, Revision 2, are shut down.

| | |
|---|---|
| Cost Account Manager<br><br>S. Guttenberg | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**3.3 Milestone Description Sheet (continued)**

| | |
|---|---|
| Title: Complete the FFTF Fuel Offload | Date: 9/24/96 |
| Assigned To: S. W. Hiller | CIN: |
| Program WBS Designator: 7.3.1.1.9.03 | Due Date: 9/09/99 |
| Control Number: B19-99-305 | Rev: 0 |

| MILESTONE TYPE: | DIVISION: | DELIVERABLE: | ADDRESS TO: |
|---|---|---|---|
| ☐ DOE-HQ<br>☒ DOE-RL<br>☐ CONTRACTOR | ☐ State<br>☐ Federal<br>☒ DOE<br>☐ RCRA<br>☐ TPA Number<br>_____ | ☐ Report<br>☒ Letter<br>☐ Drawings<br>☐ Other (specify)<br>Site Management System monthly report | ☒ DOE-HQ<br>☐ DOE-RL<br>☐ Other (specify) |

Milestone Description: All of the irradiated and unirradiated fueled components will be transferred from the Interim Decay Storage (IDS) vessel and the Fuel Storage Facility (FSF) to the Interim Examination and Maintenance (IEM) Cell for residual sodium removal, placed in Core Component Containers, transferred to the Cask Loading Station (CLS) for placement into FFTF Interim Storage Casks or Disposable Solid Waste Casks, and then transferred to the 400 Area Interim Storage Area (ISA) or shipped to the Plutonium Finishing Plant Protected Area. The radioactive sodium-bonded fueled components will be placed in FFTF ISCs transferred to the 400 Area ISA. The unirradiated sodium-bonded fuel assembly (currently stored in the Test Assembly Conditioning Station/TACS) will be placed in a suitable container and shipped to the PFP for storage. Note: The sodium-bonded fueled components are expected to remain on the Hanford Site until after December 31, 2000, per Consent Order dated October 17, 1995, and signed by Edward J. Lodge, United States District Judge. This consent order prevents the Idaho National Engineering Laboratory from receiving out-of-state nuclear fuel shipments until the year 2001.

Description of what constitutes completion of this milestone: All irradiated and unirradiated fueled components (IDENT-69 pin containers and fuel assemblies) have been transferred from the FFTF plant (e.g., IDS, FSF, IEM Cell, TACS) to dry storage.

| | |
|---|---|
| Cost Account Manager<br><br>W. V. Witherspoon | Program/Project Manager<br><br>R. K. Hulvey |
| Program Element Manager<br><br>E. F. Loika | |

# ADVANCED REACTORS TRANSITION
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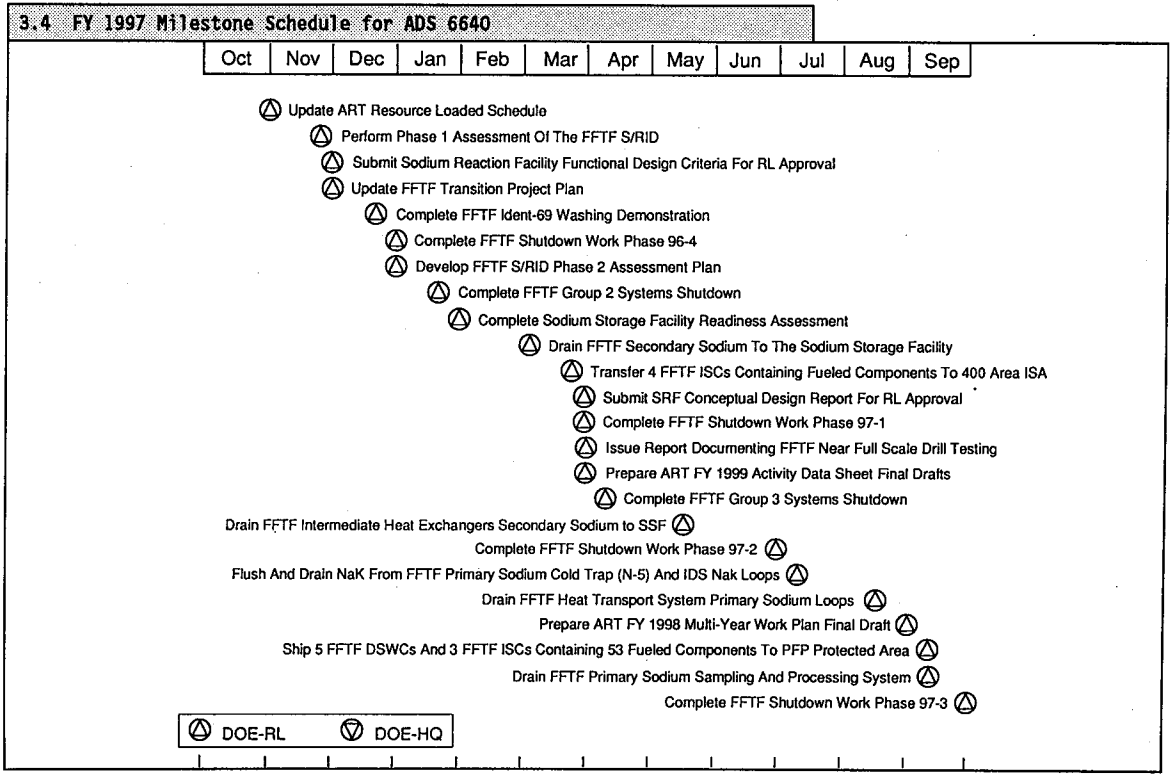
### 3.4 FY 1997 Milestone Schedule for ADS 6640



# ADVANCED REACTORS TRANSITION

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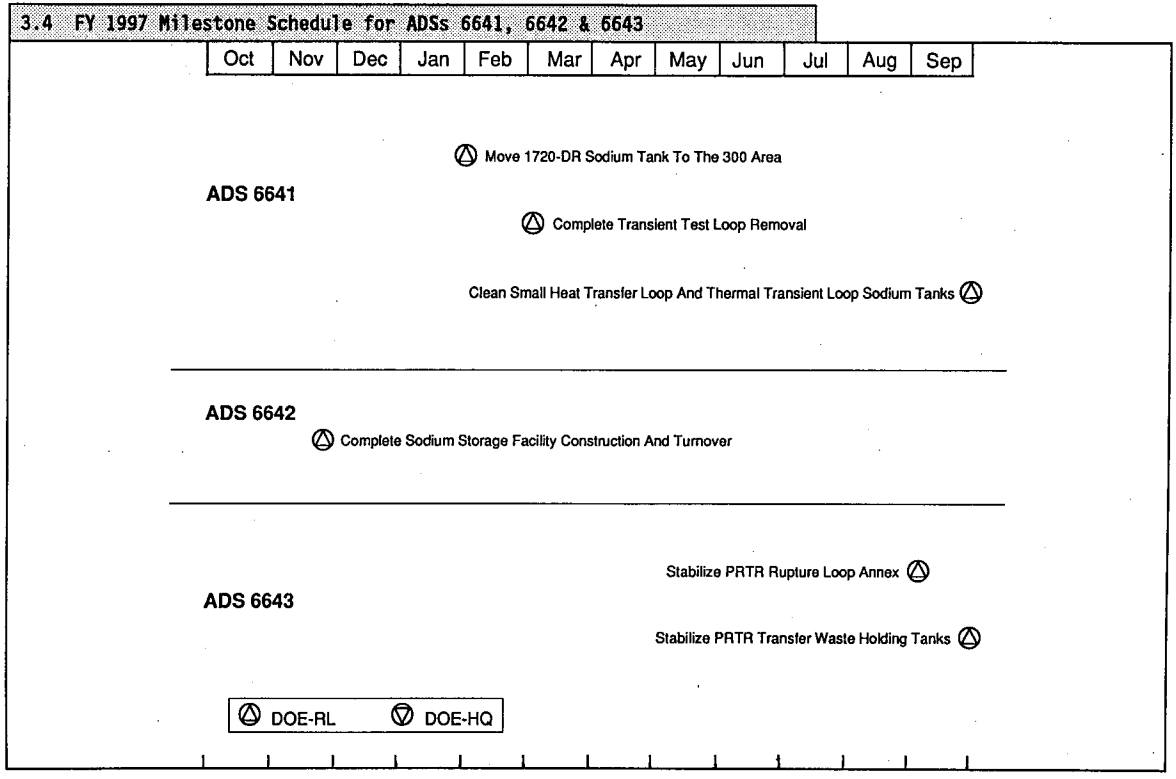

## 4.1 B/A and Cost Baseline Summaries by Year

**4.1-A New Budget Authority Summary by Year and ADS (1)** — Note: $ are in Thousands

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

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

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

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

**4.1-B Budget Authority by Year and ADS** **Note: $ are in Thousands**

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

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

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

# ADVANCED REACTORS TRANSITION

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**4.1-C Cost Baseline by Year and ADS** — Note: $ are in Thousands

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

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

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

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

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

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

# ADVANCED REACTORS TRANSITION



## 4.1-E Budget Issues

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

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

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

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

## 4.2 Basis of Estimate

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

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

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

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

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

## 4.2 Basis of Estimate (continued)

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

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

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

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

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

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## 4.3 Planned Staffing Profiles in FTEs

Note: Job Family only after 1998

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

**4.3 Planned Staffing Profiles in FTEs (continued)**

**Note: Job Family only after 1998**

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

# ADVANCED REACTORS TRANSITION

WBS 7.3

## 4.3 Planned Staffing Profiles in FTEs (continued)

Note: Job Family only after 1998

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

## 4.3 Planned Staffing Profiles in FTEs (continued)

Note: Job Family only after 1998

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

**4.3 Planned Staffing Profiles in FTEs (continued)**

Note: Job Family only after 1998

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

## 4.4 Subcontractor Staffing Profiles

# Subcontractor Exhibit

Dollars In Thousands

Project Hanford Breakdown Structure: 1.07.00.03

Project Hanford Title: ADVANCED REACTOR PROGRAMS

| | | FY 1997 | | FY 1998 | |
|---|---|---|---|---|---|
| | | $ | FTEs | $ | FTEs |
| Expense | | | | | |
| | Service Agreement | $435 | 0 | $246 | 0 |
| | Technical Service | $354 | 0 | $27 | 0 |
| | Clerical | $0 | 0 | $0 | 0 |
| Construction | | $0 | 0 | $0 | 0 |
| Total | | $789 | 0 | $273 | 0 |

**Definitions:**

Subcontractor is any Hanford Site subcontractor to WHC.

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

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

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

Clerical subcontracts are for clerical support.

Construction subcontracts support capital efforts.

# ADVANCED REACTORS TRANSITION

WBS 7.3

## 4.5 FY 1997 Building Blocks

Note: $ are in Thousands

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

# ADVANCED REACTORS TRANSITION

## WBS 7.3

### 4.5 FY 1997 Building Blocks (continued)

Note: $ are in Thousands

| RL WBS No./ FDS WBS No. | ADS | Description | RL Pri[1] | Fund Type | FY 1997 | CUM FY 1997 | Justification of Scope/Impact if not funded. |
|---|---|---|---|---|---|---|---|
| 7.3.1.1.9.06/ 1B1906 | 6640 | Sodium Reaction Facility (SRF) Engineering | 3C | OP | 533 | 48,480 | Provides FDC and CDR required by DOE for construction projects./ Failure to develop the FDC and CDR will delay the construction of the SRF and the ultimate disposal of the FFTF sodium. |
| 7.3.1.4.9.00/ 1B7900 | 6643 | 309 Building D/C | 3C | OP | 2,786 | 51,266 | DOE declared Building 309 a surplus, hazardous facility./ Failure to perform stabilization work increases the risk of contaminating the environment and harming the health and safety of the workers. |
| 7.3.1.3.9.03/ 1B6903 | 6641 | NE Legacies | 3C | OP | 2,159 | 53,425 | Strategy development and implementation for the disposition of DOE NE non-reactor facilities and associated materials/equipment./ Default on Cooperative Research And Development Agreement and draft TPA milestone MX-92-11T. This could result in the requirement to handle this sodium as waste in accordance with RCRA requirements, which would add to the time and cost required to disposition the sodium. |
| | | Total Operating | | | | 53,208 | |
| | | Total Capital | | | | 217 | |
| | | Grand Total | | | | 53,425 | |

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

## 5.1 Performance Measures

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

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

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

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

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

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

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



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**5.1 Performance Measures (continued)**

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

5.1 Performance Measures (continued)

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

# ADVANCED REACTORS TRANSITION
WBS 7.3

## 5.2 Project Performance Baseline Schedule

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

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

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

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

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP

WBS 7.3

## 5.5 Project Funding by WBS

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

**5.5 Project Funding by WBS (continued)**

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

# ADVANCED REACTORS TRANSITION
## WBS 7.3

**5.5 Project Funding by WBS (continued)**

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

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

## 6.1 Stretch Goals

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

1. Transition the FFTF to low-cost, stable, deactivated condition by 9/2000 (vs. 3/29/2001 baseline)

2. Complete Nuclear Energy Legacies deactivation by 9/1999 (vs. 9/2001 baseline)

3. Complete PRTR/309 Building Deactivation by 3/1998 (vs. 9/1998 baseline)

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

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

**ASSUMPTIONS/REQUIREMENTS:**

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

1. Where possible, portions of systems will be shut down early; for example: The removal of PCB transformers, originally planned for the last year and a half of transition, is being accomplished now by rerouting power needs to other sources.

2. Every effort will be made to negotiate end point criteria which minimizes the required work to achieve final shutdown.

3. Improved planning, based on end point criteria and enhanced detail, as ART approaches the final phase of the transition and identifies further efficiencies in the coordination of system shutdown activities; for example: ensuring the advance preparation of shutdown work packages so that the field work is pacing the transition.



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## 6.1 Stretch Goals (continued)

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

**ASSUMPTIONS/REQUIREMENTS:**

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

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

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

2. Favorable contracts must be placed for timely transfer of the bulk sodium to commercial buyers. The most expedient transfer method involves the buyer using railcars for receipt of the sodium, rather than smaller containers.

3. The use of a private contractor can accelerate the cleaning of three large tanks. (Energy and Technology Engineering Center is currently using a private contractor for a similar task.)

4. Dismantling of the CRCTA vessel in Building 337 Highbay must proceed with unanticipated problems.

5. Personnel must be available from performing organizations, currently Process Engineering and ICF KEH construction crafts.

6.1 Stretch Goals (continued)

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

**ASSUMPTIONS/REQUIREMENTS:**

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

1. FY 1997 requirement: $4.4M
   FY 1998 requirement: $1.7M

2. FY 1997 work must be accelerated to allow early start of planned FY 1998 work on the heating and ventilating stack and filter pits.

3. Personnel must be available from performing organizations, currently crafts from the ICF KEH organization.

# ADVANCED REACTORS TRANSITION

FY 1997 MYWP WBS 7.3

## 6.2 Cost Savings

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

Program: ADVANCED REACTORS

| Baseline Analysis | 1996 | 1997 | 1998 | 1999 | TOTAL |
|---|---|---|---|---|---|
| (1) Beginning Baseline - FY 1996 MYPP (9/26/95) | 52.6 | 50.8 | 46.6 | 42.1 | 192.0 |
| (2) FY 1996 Reported Savings (Schedule 2A and 2B) | | | | | |
| (2.1) Deleted Work Scope | 0.0 | 0.0 | 0.0 | | 0.0 |
| (2.2) Efficiencies | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| (3) FY 1996 Other C/R Activity (Schedule 2A and 2B) | | | | | |
| (3.1) Work Scope Deferrals | (0.2) | 0.2 | 0.0 | 0.0 | 0.0 |
| (3.2) Work Scope Transfers | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| (3.3) Work Scope Additions - Accelerated | 3.9 | (3.9) | 0.0 | 0.0 | 0.0 |
| (3.4) Work Scope Additions - New | 2.2 | 0.6 | 0.0 | 0.0 | 2.8 |
| (4) Prior Year Carryover Work Scope | | | | | 0.0 |
| (5) FY 1996 MYPP Net of FY 1996 C/R Actions | 58.5 | 47.7 | 46.6 | 42.1 | 2.8 |
| (6) FY 1997 Baseline Planning Actions (Schedule 3) | | | | | |
| 6.1 Deleted Work Scope | (0.4) | (0.9) | (3.1) | (2.1) | (6.5) |
| 6.2 Work Scope Deferrals | 0.0 | 1.9 | 0.0 | 0.0 | 1.9 |
| 6.3 Work Scope Additions - Accelerated | 0.0 | 0.9 | 0.0 | 0.0 | 0.9 |
| 6.4 Work Scope Additions - New | 0.0 | 3.7 | 3.5 | 3.6 | 10.8 |
| 6.5 Work Scope Transfers | 0.0 | 0.0 | (0.3) | (0.2) | (0.5) |
| Total 1997 Planning Actions | (0.4) | 5.5 | 0.1 | 1.3 | 6.5 |
| (7) FY 1997 Approved MYWP Baseline | 58.1 | 53.2 | 46.7 | 43.4 | 9.3 |

FY 1997 MYWP GUIDANCE from RL

## 6.2 Cost Savings (continued)

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

**Program:** ADVANCED REACTORS

**FY 1996 Reported Savings**

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

| C/R Number | Narrative of Major Savings by Change Request |
|---|---|
| | |

# ADVANCED REACTORS TRANSITION
WBS 7.3

## 6.2 Cost Savings (continued)

### FY 1997 MYWP TRANSITION CROSSWALK
Schedule 2B Pending Change Requests
($ in Millions)

Program: ADVANCED REACTORS

FY 1996 Reported Savings

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

| C/R Number | Narrative of Major Savings by Change Request |
|---|---|
| | |

# ADVANCED REACTORS TRANSITION

**FY 1997 MYWP** **WBS 7.3**

## 6.2 Cost Savings (continued)

### FY 1997 MYWP TRANSITION CROSSWALK
**FY 1997 BASELINE PLANNING ACTIONS**
**Schedule 3**
**($ in Millions)**

**Program:** ADVANCED REACTORS

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

# ADVANCED REACTORS TRANSITION

WBS 7.3

## 6.3 Project Work Scope Mapping

| Work Scope Title | Identifiers | | Comments |
|---|---|---|---|
| | FY 1996 | FY 1997 | |
| No changes to report. | | | |

## 6.4 Glossary

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

## 6.4 Glossary (continued)

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

## 6.4 Glossary (continued)

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

## 6.5 Distribution - Onsite

| | | | |
|---|---|---|---|
| 35 | RL | | |
| | | R. A. Almquist (12) | N2-39 |
| | | R. C. Budzich | R3-78 |
| | | K. D. Cameron (2) | A5-58 |
| | | D. H. Chapin | N2-39 |
| | | T. H. Davies | N2-39 |
| | | O. A. Farabee (2) | N2-39 |
| | | R. G. Hastings | N2-39 |
| | | P. A. Knollmeyer | A5-11 |
| | | J. E. Mecca | R3-79 |
| | | N. D. Moorer (12) | A5-11 |
| | | S. D. Stites | N2-39 |
| 48 | WHC | | |
| | | M. A. Baumann | R3-61 |
| | | E. J. Bitten | N1-41 |
| | | G. J. Boehnke | N1-88 |
| | | R. R. Borisch | R3-56 |
| | | T. M. Burke | N2-01 |
| | | D. B. Cartmell | R3-50 |
| | | S. H. Crow | N2-13 |
| | | T. A. Dillhoff | N2-57 |
| | | S. V. Doebler | N2-34 |
| | | D. M. Eder (8) | B3-62 |
| | | J. I. Forsberg | N2-13 |
| | | D. A. Gantt (5) | N2-13 |
| | | S. Guttenberg | N2-53 |
| | | S. W. Hiller | N2-02 |
| | | R. K. Hulvey | N2-33 |
| | | G. W. Jackson | B3-03 |
| | | D. B. Klos | N2-51 |
| | | E. F. Loika | N2-51 |
| | | C. G. McCargar | N2-56 |
| | | J. R. Montano (2) | N2-51 |
| | | L. A. Nelsen | N2-50 |
| | | J. E. Parker | N2-11 |
| | | G. N. Ruge | N2-54 |
| | | S. W. Scott | N2-57 |
| | | J. M. Steffen | N1-47 |
| | | C. W. Walton | L4-01 |
| | | W. V. Witherspoon III (3) | N2-13 |
| | | R. O. Zimmerman | N2-10 |
| | | Central Files (Orig. + 2) | A3-88 |
| | | Correspondence Control | A3-01 |
| | | Transition Project Office (2) | N2-53 |
| | | Technical Reference Center | N2-12 |
| 2 | Other | | |
| | | D. E. Olguin | H5-31 |
| | | L. J. Wertz | H5-20 |

## DISTRIBUTION SHEET

| To | From | Page 1 of 1 |
|---|---|---|
| DISTRIBUTION | STATION 22 | Date 9/27/96 |
| **Project Title/Work Order** | | EDT No. |
| FFTF | | ECN No. 634347 |

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

SH (COW) N2-13 (1) ECN, SD, COR