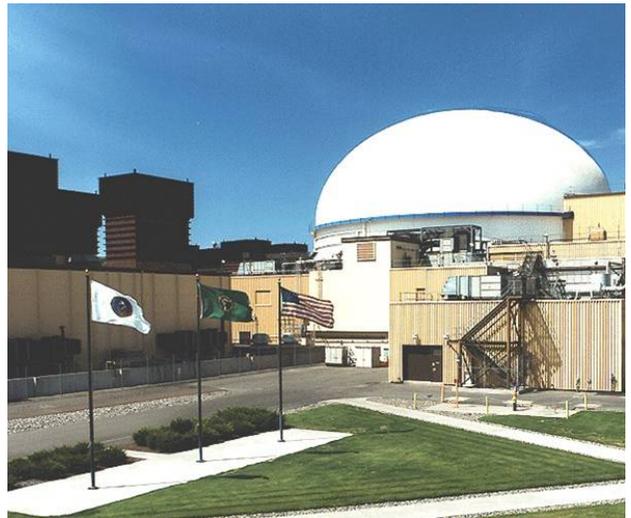


# Nuclear Facility Deactivation and Decommissioning (D&D), Fast Flux Test Facility (FFTF) Project (RL-0042)

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Solid Waste Cask



Fast Flux Test Facility



Preparing the X-26  
Transformer for Removal



Loading the X-26  
Transformer for Shipment

## Overview

This section addresses Project Baseline Summary (PBS) RL-0042, Nuclear Facility Deactivation and Decommissioning (D&D), Fast Flux Test Facility Project.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2004.

## Notable Accomplishments

**Fuel Handling and Interim Examination and Maintenance (IEM) Cell Operations:** Movement of 57 fuel assemblies from the Fuel Storage Facility (FSF) vessel to the Interim Decay and Storage (IDS) vessel commenced. This is in preparation for resumption of fuel offload to Interim Storage Casks. The IEM Cell Training Facility in the 309 building was restored to service this month, allowing operators to begin valuable hands-on training in preparation for the upcoming fuel disassembly processing campaign.

**IDS Vessel Configuration:** A significant improvement in fuel offload machine reliability was made possible in March by lowering the sodium level in the IDS fuel storage vessel. Approximately 1,400 gallons were drained in conjunction with plunging the upper portion of the Core Component Pots. This configuration change will allow the fuel handling machine grapples to retrieve a component without being lowered into the sodium. Reliability will increase since the grapple won't have sodium build-up solidifying and causing increased friction on moving parts.

**Fire Panel Deactivation:** Deactivation of a major portion of a fire panel, which provided coverage to Dump Heat Exchanger and Secondary Heat Transport System areas, was completed this month. This fire panel was the largest system at FFTF, and this reduction will significantly reduce surveillance and maintenance requirements for the fire system.

**Sodium Flush of In-Containment Sodium-Potassium (NaK) Loops:** Shop work to fabricate the required cross-connect piping was started; this work will move into the field in early April. Most required instrumentation and control system repairs and calibrations were completed; the remainder are planned to be completed during the month of April.

**Fuel Storage Facility NaK Drain:** Piping layouts and design for the modifications required to drain the FSF NaK cooling loop were completed, and required materials were ordered. Insulation was removed from the existing piping sections that must be cut to make the required modifications.

**Primary Sodium Drain:** Fabrication was completed of the second drill string required to drill a hole through the reactor vessel core support structure. The design of the pump assembly was completed, and a formal design review is scheduled for April. The pumping chamber portion of the Reactor Vessel Drain Pump was received from the vendor (the associated control skid was received in February). The pumping chamber will be fabricated (in-house) into an approximately 60-foot long pump assembly. This pump assembly will be used to remove non-drainable sodium from the reactor vessel inlet plenum. A major field work activity was initiated to restore operability of the trace heating on the primary drain system; this work will continue in April.

**Polychlorinated biphenyl (PCB) Transformer Removal:** The X-26 transformer has been disconnected, drained, and shipped off-site for disposal. This is the fifth of nineteen PCB transformers planned to be removed during the D&D process.

## FY 2004 FH Funds versus Forecast (\$000)

	FY 2004 Anticipated Funding w/Carryover	FY 2004 Fiscal Year Spend Forecast	Variance
Nuclear Facility D&D, FFTF Project	\$ 38,413	\$ 38,300	\$ 113

The FY 2004 Anticipated Funding excludes \$3.8M for the post-PHMC period September 1-30, 2004. The fiscal year spend forecast is based on the scope documented in a baseline change request (BCR) under review with RL.

## FY 2004 Schedule/Cost Performance (\$000)

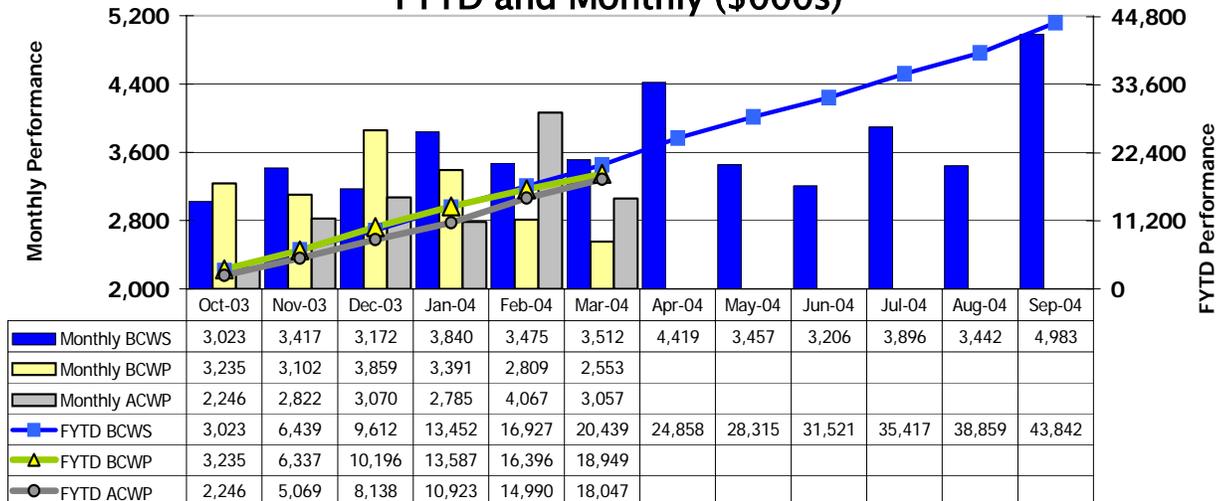
	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Nuclear Facility D&D, FFTF Project	20,439	18,949	18,047	-1,490	-7%	901	5%	43,842

Numbers are rounded to the nearest \$K.

**Schedule Performance (-\$1,490K/-7%):** The unfavorable schedule progress is due to less critical maintenance activities being deferred to allow resources to be applied to deactivation activities. Other significant contributors include suspension of Radial Reflector Shipping Container procurement and reduction in budgeted fee which will be corrected when the January 2004 BCR is approved and implemented.

**Cost Performance(+ \$901K+5%):** The cost variance is primarily due to controlled spending in the surveillance and maintenance area and better-than-planned efficiency in performance of fuel offload activities. Scope is being evaluated for potential acceleration of other deactivation activities.

## Performance Analysis FYTD and Monthly (\$000s)



## Milestone Achievement

Number	Milestone Title	(TPA/DNSFB/PI)	Due Date	Actual Date	Forecast Date	Status/Comments
PI-S3-4a	Secondary system sodium drain	PI	5/31/03	4/16/03		Complete
PI-S3-4b	Fuel Offload - 81 assemblies	PI	1/22/04	12/11/03		Complete
M-81-12	Initiate FFTF sodium drain	TPA	6/30/03	4/7/03		Complete
M-20-29B	Submit sodium storage facility and sodium reaction facility closure plan or request for procedural closure to Ecology as defined in Agreement section 6.3.3.	TPA	6/30/03	6/12/03		Complete