



# **Section F**

## ***300 Area Facility Transition***

### **PROJECT MANAGERS**

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## INTRODUCTION

The 300 Area Facility Transition consists of 324 Facility Safe Shutdown, 327 Facility Safe Shutdown, Miscellaneous Radiological Facilities Deactivation, and Project Management and Support, Project Baseline Summary (PBS) RL-RC06, Work Breakdown Structure (WBS) 3.1.6.

NOTE: Unless otherwise noted, all information contained herein is as of the end of July 2002.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that two milestones were completed on schedule and two milestones are overdue. For the remainder FY 2002, one milestone was completed in FY00, and one milestone is proposed for deletion.

## NOTABLE ACCOMPLISHMENTS

**324 Facility Safe Shutdown** — Completed the Readiness Assessment and all pre-start conditions for 324 Spent Nuclear Fuel (SNF) removal and began handling fuel. The Construction Engineering Basket fabrication that will be used for the fourth and fifth SNF shipments was also completed. Additional work at the 324 Building included completion of preliminary (50 percent) design of the Liquid Waste Handling System, and removal of the storage cabinet lead sheets from the basement vault.

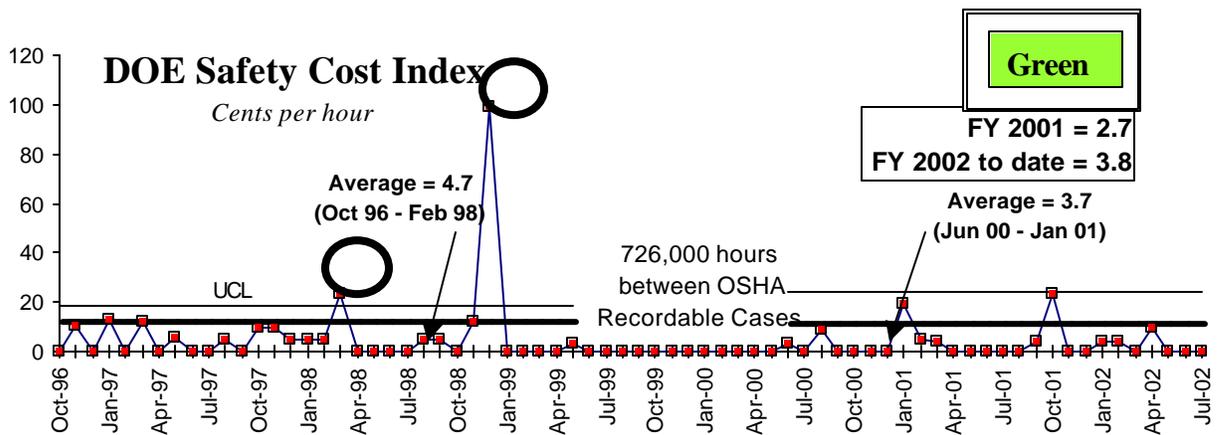
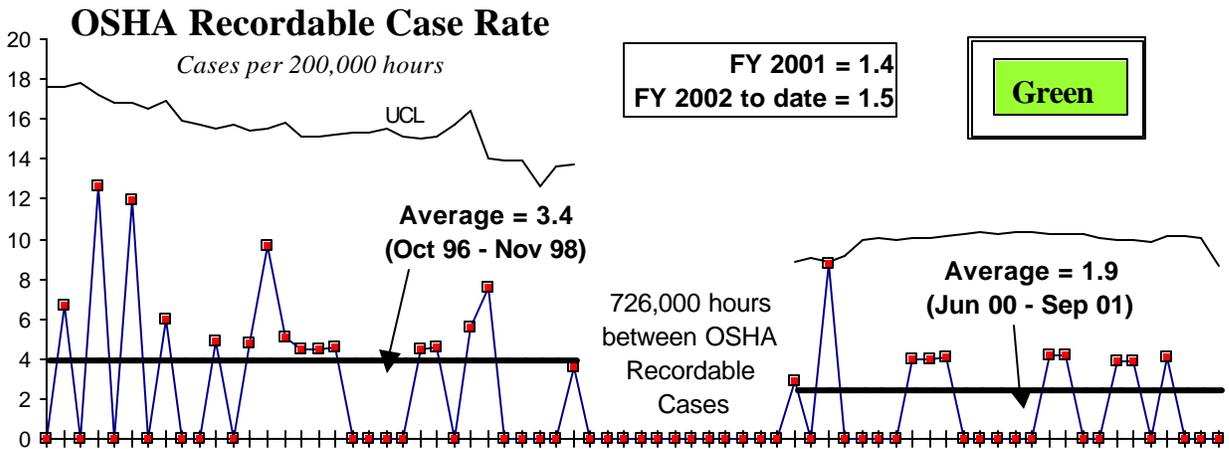
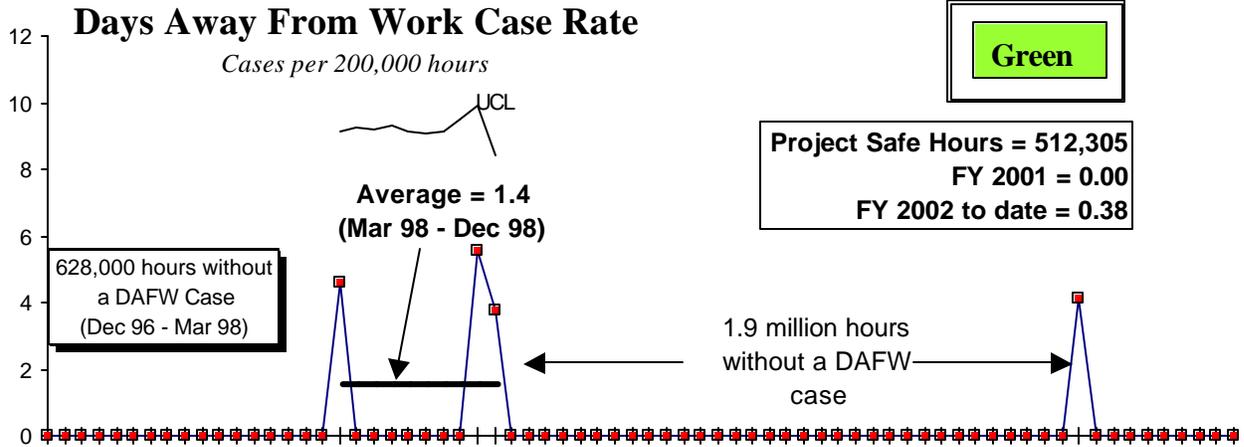
**327 Facility Safe Shutdown** — Two low-level waste boxes were shipped to the Central Waste Complex (CWC), and PNNL legacy waste container #10 was shipped to CWC, with two remaining out of a total of sixteen. In addition, the Quality Assurance Plan was developed for the Accelerated Site Technology Deployment (ASTD) project.

**Misc. Radiological Facilities Deactivation** — The 303K Resource Conservation and Recovery Act (RCRA) Closure Certification for final closure was received from the State of Washington Department of Ecology. In addition, the final approval of the draft Basis for Interim Operation (BIO) was initiated, and three truckloads of excess material were provided to the 200 Area Central Plateau employees for reuse.

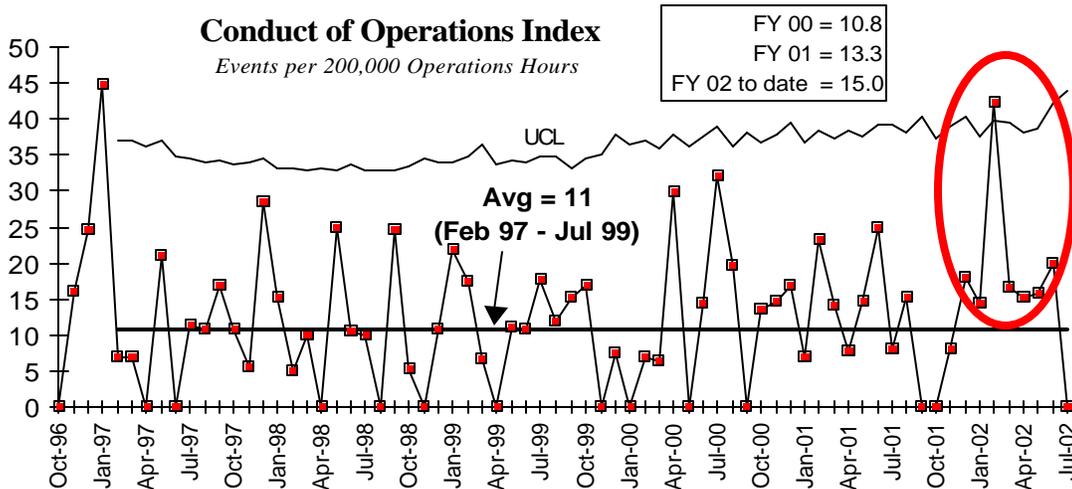
## SAFETY

River Corridor (RC) has achieved 512,305 safe work hours since the last Days Away from Work case. The last Days Away from Work case occurred on October 9, 2001. During the month of July there were two first-aid cases.

## Safety (Continued)



## CONDUCT OF OPERATIONS



## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

**Monolithic Removal of 327 Hot Cells** — In order to support accelerated 300 Area closure, CP is integrating decommissioning and demolition with deactivation activities where practical. Intact removal of the 327 hot cells appears to be technically feasible, to have potentially significant ALARA benefits, and to result in schedule/cost reduction. Certification that the hot cells can be disposed of as non-Transuranic waste is key to adopting monolithic removal as the technical baseline. In support of this initiative, CP was successful in obtaining Accelerated Site Technology Deployment (ASTD) funding (\$935K) to purchase in-situ characterization instruments that will lead to the eventual low-level waste certification. The gamma camera (Cartogam) and Neutron Detection Instrument Pod are available for deployment in the hot cells. As required by the project Quality Assurance Plan, the systems were receipt-inspected by Acceptance Verification Services. Operator training is scheduled prior to conducting a non-destructive analysis.

### Opportunities for Improvement

None to report.

## UPCOMING ACTIVITIES

**Spent Nuclear Fuel (SNF)** — Accomplish accelerated schedule of five Pressurized Water Reactor (PWR) spent fuel assembly shipments by September 30, 2002.

**Contract Transition** — Support transfer of FH scope to River Corridor Closure Contract (RCCC). Received a modification that changed the date from July 1, 2002, to "at direction of the contracting officer."

## MILESTONE ACHIEVEMENT FH Contract Milestones

MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
TRP-01-904	Complete TPA Milestone M-89-02	TPA	11/30/00	7/18/01		Complete
TRP-04-904	Sel Tech. for Highly Contam. Tank Rmvl (Technology Insertion Point)	RL	2/28/02		3/4/04	Delayed pending completion of 2012 Alignment Assessment which may result in deletion of the need for this work. Impact not immediate - work supported is planned for FY04. A letter to RL requesting deferral of decision point is in review. Ultimate resolution dependent on rebaseline of deactivation path.
M-92-14	Complete Removal and Transfer, and Initiate Storage of Phase I 300 Area SCW and Materials	EA	9/30/02	3/28/00		Complete
TRP-02-700	Complete > 27% Remaining 324/327 Deactivation LC Scope	PI	6/30/02	6/30/02		Complete
TRP-02-701	Support RCP Contract Transition Plan	PI	6/30/02		TBD	Milestone was proposed for deletion due to the transition date change and modification of PI expectation.
M-94-02	Submit an Amendment to the Existing 324 Building REC/HLV Closure Plan	TPA	7/30/02	7/30/02		Complete
TRP-01-947	Identify Tech Supporting 327 Hot Cell Removal as the Deactivation Strategy	RL	9/30/02		5/31/03	Propose moving TIP milestone to coincide with completion of ASTD activities.
M-92-15	Complete Removal and Transfer, and Initiate Storage of Phase II 300 Area SCW and Materials	EA	9/30/04	9/19/01		Complete

## PERFORMANCE OBJECTIVES

### Outcomes: Restore the River Corridor for Multiple Uses

Performance Indicator	Status
<b>FHI-M8 – 300 Area Cleanup</b>	
Measure 1: Accelerate 300 Area Cleanup	
Expectation 1: Deactivate 324/327 Buildings	
Base: Complete 26.5% remaining 324/327-baseline work by June 30, 2002.	Complete.
Base: Complete B Cell cleanout and shipment of B Cell waste to 200 Area Burial Grounds.	Complete.
Stretch: Complete additional 2.5% remaining 324/327-baseline work.	Complete.
Expectation 2: Disposition surplus facilities	
Base: Disposition 3902A, 3802B & 303-K by September 30, 2001.	Complete.
Expectation 3: Disposition uranium billets, uranium dioxide, scrap materials in 200/300 Areas, and 303-K thorium-232 by September 30, 2001.	Complete.
Measure 2: Support RC contract transition	
Expectation 1:	
Stretch: Support RC contract transition by July 1, 2002.	Received a modification to the PI that changed the date from July 1, 2002, to "at direction of the contracting officer." FH ready to initiate transition upon direction from RL.
<b>FHI-M8A – 300 Area Cleanup</b>	
Measure 1: Maintain Progress on 300 Area Cleanup	
Expectation 1: 324 Building Spent Nuclear Fuel removal	
Base 1: Complete transfer of two NAC-1 casks by September 30, 2002.	Readiness Assessment completed with several pre-start actions required. On schedule to complete by September 30, 2002.
Base 2: Complete transfer of two additional NAC-1 casks by November 20, 2002.	On schedule to complete by November 20, 2002.
Stretch: Complete transfer of third additional NAC-1 cask by November 20, 2002.	On schedule to complete by November 20, 2002.
Measure 2: Accelerate Progress on 300 Area Cleanup	
Expectation 1: Accelerate removal of Spent Nuclear Fuel and Special Nuclear Materials from the 324 Building	

Super Stretch 1: Complete transfer of fourth additional NAC-1 cask by November 20, 2002, or 90 days after award of River Corridor Contract, but not later than December 20, 2002. On schedule to complete by November 20, 2002.

Super Stretch 2: Complete transfer of pins and pieces by November 20, 2002, or 90 days after award of River Corridor Contract, but not later than December 20, 2002. On schedule to complete by November 20, 2002.

## FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

Sub-Project		FISCAL YEAR TO DATE							
		BCWS	BCWP	ACWP	SV	%	CV	%	BAC
PBS RC06 WBS 3.1.6.1	324 Facility Safe Shutdown	18,151	18,979	18,996	828	5%	(17)	0%	21,877
PBS RC06 WBS 3.1.6.2	327 Facility Safe Shutdown	5,069	5,926	4,786	857	17%	1,140	19%	6,896
PBS RC06 WBS 3.1.6.3	Misc. Radiological Facilities Deactivation	2,032	2,022	1,697	(10)	0%	325	16%	2,519
PBS RC06 WBS 3.1.6.4	300 Area Facilities Project Management	5,872	6,124	5,010	252	4%	1,114	18%	7,198
<b>Total 300 Area FT</b>		<b>31,124</b>	<b>33,051</b>	<b>30,489</b>	<b>1,927</b>	<b>6%</b>	<b>2,562</b>	<b>8%</b>	<b>38,490</b>

## FY TO DATE SCHEDULE / COST PERFORMANCE

The favorable schedule variance of \$1.9M (6 percent) is primarily due to 327 min-safe efficiencies, and outyear work scope being performed ahead of schedule. The favorable cost variance of \$2.6M (8 percent) is due to less than planned labor and contract costs.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

### Schedule Variance Analysis: (+ \$1.9M)

#### 327 Facility Safe Shutdown — 3.1.6.2/RC06

**Description and Cause:** The favorable schedule variance was primarily due to outyear work scope being performed ahead of schedule.

**Impact:** None.

**Corrective Action:** No corrective action required.

All other sub-projects are within established thresholds.

## Cost Variance Analysis: (+\$2.6M)

### 327 Facility Safe Shutdown — 3.1.6.2/RC06

**Description and Cause:** The favorable cost variance was primarily due to completion of outyear work scope.

**Impact:** No impact.

**Corrective Action:** No corrective action required.

### Misc. Radiological Facilities Deactivation — 3.1.6.3/RC06

**Description and Cause:** The favorable cost variance was due to labor efficiencies.

**Impact:** No impact.

**Corrective Action:** None required.

### 300 Area Facilities Project Mgt & Support — 3.1.6.4/RC06

**Description and Cause:** The favorable cost variance was primarily due to time phasing of contracts and labor underruns as a result of staff vacancies not yet filled.

**Impact:** No impact.

**Corrective Action:** Any underruns in funding will be utilized to support other priority work scope.

All other sub-projects are within established thresholds.

## Funds Management FY 2002 FUNDS VS SPENDING FORECAST (\$000)

	FH Funds Reallocation	FYSF	Variance
<b>River Corridor</b>			
RC01, RC02, RC06, CP01, SS03, SS04			
Project Completion - Operating	\$ 37,408	\$ 37,026	\$ 382
Post 2006 * - Operating	\$ 23,449	\$ 20,763	\$ 2,686
- Line Item	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 60,857</b>	<b>\$ 57,789</b>	<b>\$ 3,068</b>

[Status through July 2002]

## ISSUES

### Technical Issues

**Issue:** Ability to accelerate 324 schedule for five PWR spent fuel assembly shipments by September 30, 2002, vs. December 2002, is potentially impacted by equipment delivery delays and late completion of the Readiness Assessment (RA).

**Impact:** Must recover lost time in order to accomplish accelerated schedule.

**Action Plan:** The Readiness Assessment and all pre-start conditions for the removal of 324 Spent Nuclear Fuel are complete and fuel handling has begun.

**Issue:** 324 Shielded Material Facility (SMF) Artisan Arm procurement.

**Impact:** The Artisan Arm is required to complete activities in the SMF.

**Action Plan:** The Factory Acceptance Test (FAT) was completed. The Artisan Arm will be scheduled for shipment to the 324 Building following completion of facility punch list items, tentatively September 6, 2002.

## Regulatory Issues

**Issue:** Obtain RL, EPA, and Ecology agreement to modify 324 Closure Plan to CERCLA in support of realignment of the 324 baseline to the 2012 Plan. Obtain Ecology and RL relief on immediate activities that are contrary to the 2012 Plan.

**Impact:** Without relief there will be no alignment with the 2012 Plan.

**Action Plan:** FH met with RL and Ecology on July 24, 2002, regarding the 324 Building Closure Plan Amendment. The amendment text was reviewed in detail with Ecology (Rick Bond and Jeanne Wallace). Ecology plans to perform a normal 45-day review. RL delivered the amendment to Ecology on July 30, 2002, thereby meeting the M-94-02 TPA milestone due date. (This is the last report for this item.)

## DOE Issues, External Issues and DOE Requests

None to report.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

BCR No. Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
RC06-02-007 3.1.6.4	4/22/02	River Corridor Prj (RCP) Transition Activities		\$624		Transition Plan approved 5/14/02. BCR will be held until transition date established.