

SUMMARY

The River Corridor Project consists of the following projects: 300 Area Liquid Effluent Facility (LEF) WBS 1.2.3.2, Project Baseline Summary (PBS) WM05; B-Plant, WBS 1.4.1, PBS TP01; 300 Area/Special Nuclear Materials, WBS 1.4.4, PBS TP04; Transition Project Management, WBS 1.4.6, PBS TP12; Accelerated Deactivation, WBS 1.4.8, PBS TP10; 324/327 Facility Transition, WBS 1.4.10, PBS TP08; and Hanford Surplus Facility Program (300 Area Revitalization), WBS 1.4.11, PBS TP14.

PBS WM05 is divided between WBS 1.2.3.1, Liquid Effluents (200 LEF) and WBS 1.2.3.2, 310 TEDF/340 Facility (300 LEF). For the purpose of performance analysis, PBS WM05 is reported in Waste Management, which has the majority of the funding incorporated in their baseline. WBS 1.2.3.2 workscope is now included in the River Corridor.

No comments were received during a public hearing of the 300 Area Waste Acid Treatment System (WATS) Closure plan held on November 9, 1999 at the local office of the Washington State Department of Ecology (Ecology). The period for written comments closes on December 6, 1999.

Progress was made in the 324 B Cell cleanout effort despite being five months behind schedule for the reduction of the 2A Rack and transfer of waste. Six grout containers were removed from the B Cell and placed in A Cell for interim storage, awaiting characterization. Crane outage however, continued to frustrate progress throughout the Radiochemical Engineering Cell (REC) complex. Dose profiling of the containers removed from B Cell was halted when the A-D Cell transfer crane failed. Repairs were also ongoing during the reporting period on the B Cell and Airlock cranes. The facility has re-sequenced planned activities to work around the stranded A-D Cell transfer crane and made limited progress in waste characterization. Facility management also focused on personnel dose management and overall crane recovery planning. Other progress includes the completion and submittal of the 300 Area Special Case Waste (SCW) Project Management Plan ten months ahead of schedule, and completion of the shipment of an A Cell Mixed Waste Box to the 200 Area burial grounds, two months behind schedule.

The revised 324 Building deactivation sequence strategy was reviewed and accepted by Ecology. The strategy will be implemented in the update of *324/327 Buildings Stabilization/Deactivation Project Management Plan (PMP)*. A letter from Fluor Hanford (FH) defining the criteria for completing Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) interim milestone M-89-02, Complete Removal of 324 Building REC B Cell MW and Equipment, endpoint was transmitted for approval and subsequent submittal to Ecology. The letter included a table identifying specific items that would remain in-cell at the conclusion of M-89-02 activities. Agreement on endpoint criteria is crucial for ensuring all appropriate activities for milestone completion are factored into the new schedules being generated for the PMP update.

Work continues on the Liquid Waste Handling System (LWHS), a key activity for 324 Building deactivation, specifically to accommodate interim storage of liquid waste generated during cell cleanup activity. The inventory for additional fuel and dispersible material was completed in preparation for the 324 Building Deactivation Notice of Construction (NOC) permit for radioactive air emissions with the Washington State Department of Health (WDOH). The preliminary design was completed by COGEMA Engineering Corporation two months behind schedule.

Progress at the 327 Facility includes the transfer of 21 of 300 specimen containers from dry storage. Also, one concrete-lined waste drum was packaged containing five legacy waste buckets. The required verification of thirty legacy waste buckets was completed on schedule. This information will be utilized during the approval process of the finalized work plans, which determine actions to complete shipments.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, FO, and RL) shows that 1 of 11 milestones (9 percent) was completed on or ahead of schedule and 2 milestones (18 percent) are overdue. The Milestone Achievement details, found following cost and schedule variance analysis, provide further information on all milestone types. Additional details on the overdue milestones can be found in the milestone exception report starting on page D: 2-9.

ACCOMPLISHMENTS

- Submitted 300 Area SCW Project Management Plan ten months ahead of schedule. (TRP-00-902)
- Shipped A Cell Mixed Waste Box from the 324 Facility to 200 Area burial grounds two months behind schedule.
- Completed the Liquid Waste Handling System (LWHS) preliminary design two months behind schedule.
- Completed repairs to the B Cell 10-ton crane drive motor and the 3-ton crane cable reel tension.
- Completed transfer of 21 of 300 specimen containers from the 327 Facility dry storage. (Ahead of schedule)
- Packaged one concrete-lined waste drum containing five legacy waste buckets from the 327 Facility. (Ahead of schedule)
- Complete required verification of thirty legacy waste buckets at 327 Facility. (Ahead of schedule)

COST PERFORMANCE (\$M):

	BCWP	ACWP	VARIANCE
River Corridor Project	\$7.8	\$7.1	+ \$0.7

The \$0.7 (8.9 percent) favorable cost variance is due to lower than planned labor and contract costs as a result of the PHMC re-structuring. Further information at the PBS level can be found in the following Cost Variance Analysis details.

SCHEDULE PERFORMANCE (\$M):

	BCWP	BCWS	VARIANCE
River Corridor Project	\$7.8	\$8.8	- \$1.0

The \$1.0 million (10.3 percent) unfavorable schedule variance is primarily due to delays with B Cell clean out activities including waste shipments and estimate update activities. Further information at the PBS level can be found in the following Schedule Variance Analysis details.

ISSUES

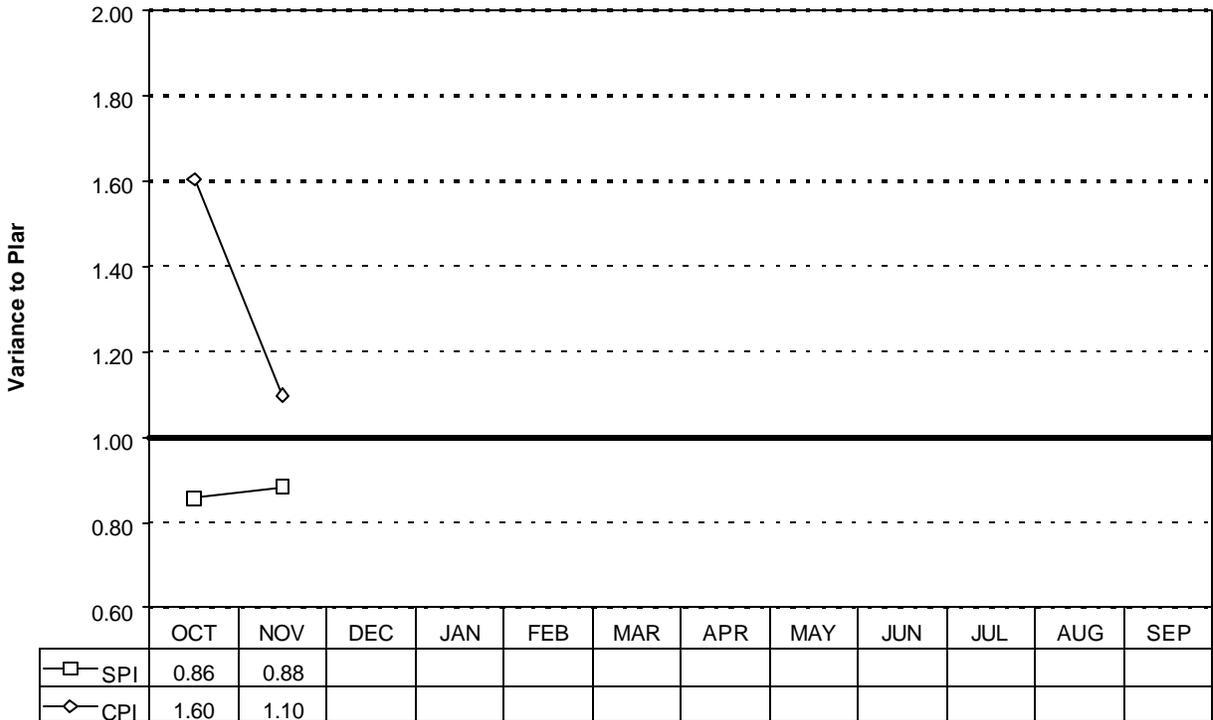
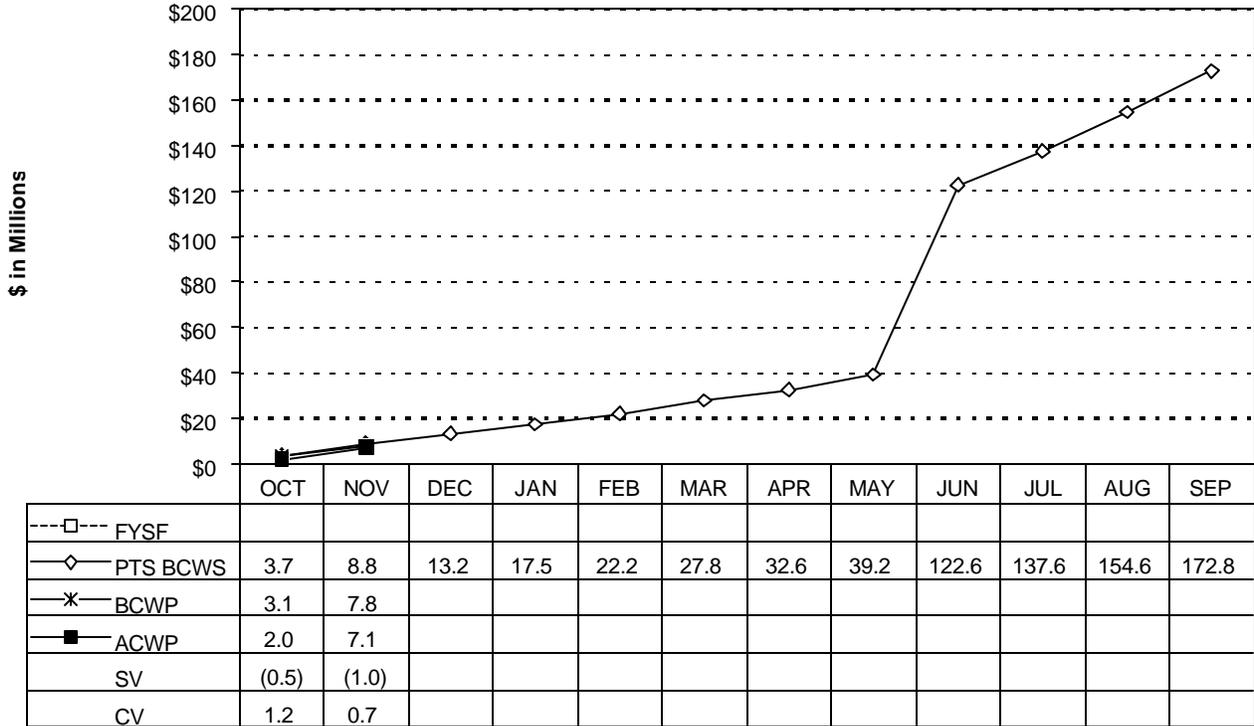
Downtime driven by facility systems/equipment failures (HVAC, cranes) continues to create delays in the 324 Facility project schedules. The ongoing crane and facility system failures have placed the project significantly behind schedule.

Strategy/Status: The backlog of project activities will be accumulated to allow for transfer of project resources to other closure plan activities in order to maintain progress on overall critical path. In addition, the PMP, Rev 3, which re-sequences the B Cell clean out activities, includes an estimate of total operating efficiency (TOE) based on historical outages. The TOE factor will be applied to current and out year activities.

Waste Sampling and Characterization Facility (WSCF) metals analysis deviated from EPA Method 200.8. This resulted in being in a non-compliance state with the National Pollutant Discharge Elimination System Permit.

Strategy/Status: WSCF issued a five-day report and participated in Corrective Action Management while reviewing other procedures. The samples will be re-analyzed in six months.

RIVER CORRIDOR
WBS 1.4.1, 1.4.4, 1.4.6, 1.4.8, 1.4.10, 1.4.11
FY 1999 COST/SCHEDULE PERFORMANCE - ALL FUND TYPES
Cumulative to Date Status



RIVER CORRIDOR
WBS 1.4.1, 1.4.4, 1.4.6, 1.4.8, 1.4.10, 1.4.11

			FYTD					AUTH	PTS
			BCWS	BCWP	ACWP	SV	CV	BSLN	BCWS
1.4.1.1	B-Plant	Expense	0.0	0.0	0.1	0.0	(0.1)	0.0	0.0
TP01		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	(0.0)	0.0	0.0
Subtotal 1.4.1.1			0.0	0.0	0.1	0.0	(0.1)	0.0	0.0
1.4.4.1	300 Area/SNM	Expense	0.4	0.4	0.4	0.0	(0.0)	2.7	2.7
TP04		CENRTC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal 1.4.4.1			0.4	0.4	0.4	0.0	(0.0)	2.7	2.7
1.4.6.1	Transition Project	Expense	3.0	3.0	2.0	0.0	1.0	18.8	19.4
TP12		Mgmt	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal 1.4.6.1			3.0	3.0	2.0	0.0	1.0	18.8	19.4
1.4.8.1	Accelerated	Expense	0.4	0.4	0.5	(0.0)	(0.1)	2.5	2.7
TP10		Deactivation	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal 1.4.8.1			0.4	0.4	0.5	(0.0)	(0.1)	2.5	2.7
1.4.10.1	324/327 Facility	Expense	4.9	3.9	4.1	(1.0)	(0.2)	32.4	32.9
TP08		Transition	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal 1.4.10.1			4.9	3.9	4.1	(1.0)	(0.2)	32.4	32.9
1.4.11.1	HSFP 300 Area	Expense	0.1	0.1	0.1	(0.0)	0.0	0.8	0.8
TP14		Revitalization	CENRTC	0.0	0.0	0.0	0.0	0.0	0.0
		GPP/LI	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal 1.4.11.1			0.1	0.1	0.1	(0.0)	0.0	0.8	0.8
RIVER CORRIDOR	Expense		8.8	7.8	7.1	(1.0)	0.7	57.2	58.4
TOTAL	CENRTC		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GPP/LI		0.0	0.0	0.0	0.0	(0.0)	0.0	0.0
River Corridor Total			8.8	7.8	7.1	(1.0)	0.7	57.2	58.4

COST VARIANCE ANALYSIS: (+\$0.7)

WBS/PBS

Title

1.4.10/TP08

324/327 Building Deactivation

Description and Cause: The unfavorable cost variance is primarily due to carryover work scope being performed via an Advanced Work Authorization (AWA), higher than planned B Cell crane repairs, and performing unfunded accelerated 327 Building deactivation work scope also via AWA.

Impact: None. Spending against AWAs is being closely monitored.

Corrective Action: Costs of work being performed via AWA will be measured against baseline performance once the applicable baseline change requests are approved. This is particularly applicable to the effort associated with the 327 accelerated deactivation work scope.

1.4.8/TP10

Accelerated Deactivation

Description and Cause: The unfavorable cost variance is primarily due to an error in fee distribution resulting in higher than planned cost.

Impact: No impact.

Corrective Action: Accounting error has been corrected and will be reflected in the December reports.

1.4.6/TP12

Transition Project Management

Description and Cause: The favorable cost variance is primarily due to the PHMC re-structuring which has mapped personnel to other sub-projects, resulting in underruns in labor and contractor support.

Impact: Not determined. Underruns will be utilized to fund other high priority project and site work scope.

Corrective Action: No corrective action is required.

1.4.11/TP14

HSFP 300 Area Revitalization

Description and Cause: The favorable cost variance is primarily due to less than planned labor support in radiological control, emergency preparedness and generator services offset by an increase in craft labor support of the clarifier repairs.

Impact: None.

Corrective Action: The variance will decrease over time, as fee will be costed in December and corrective maintenance requirements may increase throughout the year.

All other PBS variances are within established thresholds.

SCHEDULE VARIANCE ANALYSIS: (-\$1.0)

WBS/PBS

Title

1.4.10/TP08

324/327 Building Deactivation

Description and Cause: The unfavorable schedule variance is due to the delay with B Cell clean out activities, including waste shipments as a result of non availability of cell support systems and no work being performed on the PUREX Tunnels as this activity is no longer required.

Impact: The continued behind schedule condition jeopardizes achievement of schedule recovery.

Corrective Action: Maximum effort is being expended to repair cranes and other cell support systems. The PMP is being updated to include a re-sequence of critical path activities that will provide recovery of TPA milestone schedule.

1.4.8/TP10

Accelerated Deactivation

Description and Cause: The unfavorable schedule variance is due to the delay in the estimate update activities as a result of the separation from WESF and sub-project re-structuring.

Impact: Estimate update activities will be completed approximately one month behind schedule.

Corrective Action: None. Good progress is being made to recover schedule. Completion in January 2000 has no adverse impact to FY 2000 budget formulation tasks.

1.4.11/TP14

HSFP 300 Area Revitalization

Description and Cause: The unfavorable schedule variance is due to delays in performing the baseline estimate update activities as a result of changes in the organization associated with re-structuring. Personnel are performing other planned work either within sub-project or other area.

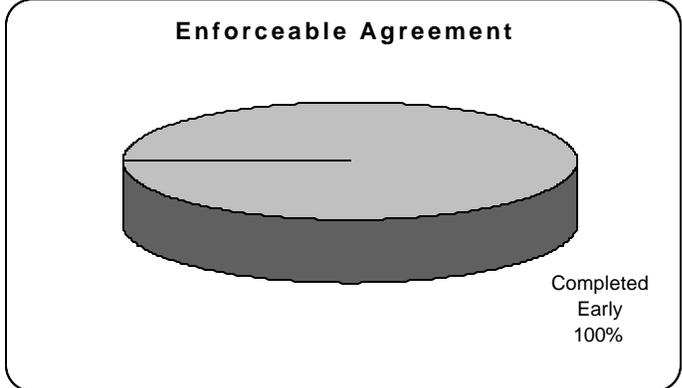
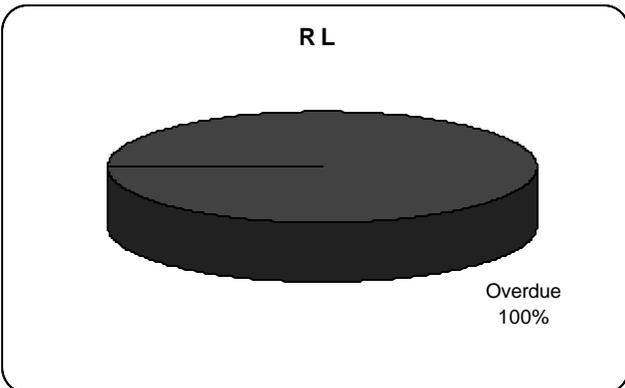
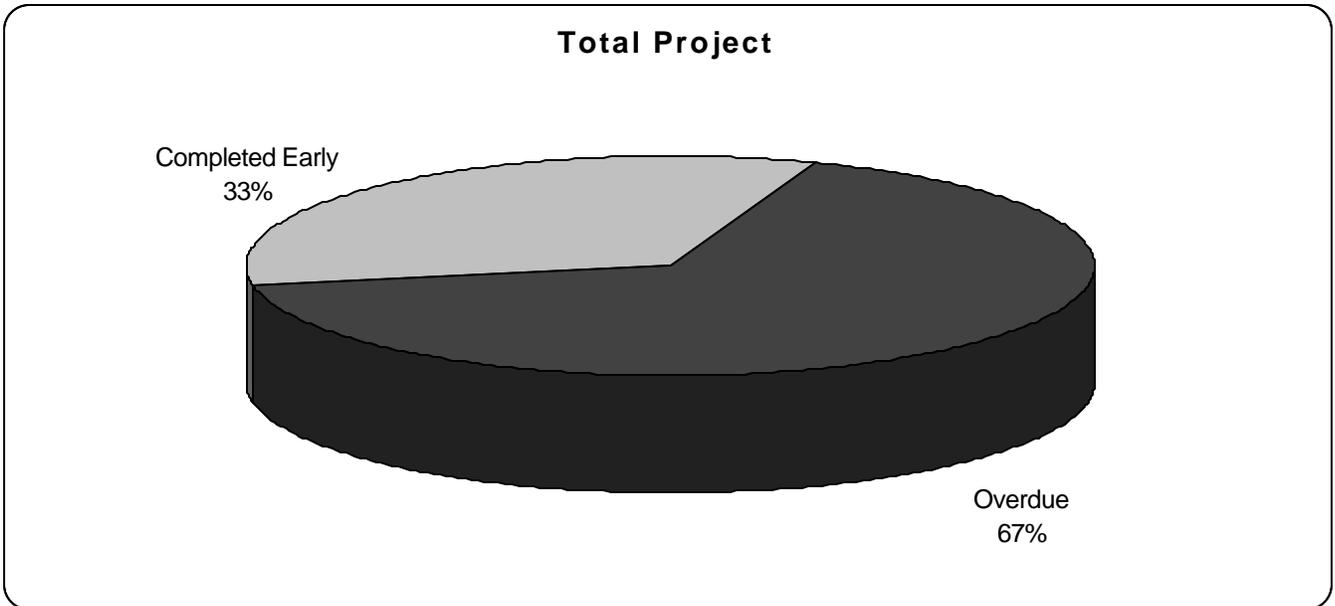
Impact: Will not complete the estimate update in first quarter as planned.

Corrective Action: Continue activities and provide notifications that estimate update will be completed in second quarter.

All other PBS variances are within established thresholds.

RIVER CORRIDOR MILESTONE ACHIEVEMENT

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	1	0	0	0	0	0	0	1
DOE-HQ	0	0	0	0	0	0	0	0
FO	0	0	0	0	0	1	0	1
RI	0	0	0	2	0	0	7	9
Total Project	1	0	0	2	0	1	7	11



MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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OVERDUE – 2

TRP-98-936	RL	Complete 2A Rack Size Reduction and Removal	10/23/99	03/31/00
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Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.

Impact: Currently five months behind schedule to support TPA milestone M-89-02 due November 2000.

Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities that will provide recovery to the schedule.

TRP-99-933	RL	Complete Containerization of Dispersible under 2A Rack	11/06/99	04/30/00
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Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.

Impact: Currently four months behind schedule to support TPA milestone M-89-02 due November 2000.

Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02.

FORECAST LATE – 7

TRP-99-907	RL	Complete 1A Rack 382-B Cask Shipments	01/01/00	05/30/00
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Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.

Impact: Currently four months behind schedule to support TPA milestone M-89-02 due November 2000.

Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02.

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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TRP-99-910	RL	Complete transfer of SNF from B Cell	01/11/00	TBD
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1.4.10

Cause: The decreased availability of the facility cranes and delay in grout container characterization activities resulted in work scope delays.

Impact: Minimal impact; no impact on TPA M-89-02 critical path.

Corrective Action: The revised PMP will re-sequence B Cell clean out activities. The revised completion date for this milestone has not been determined at this time.

TRP-99-945	RL	Complete shipment of one RH-TRU	01/13/00	Proposed
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1.4.10

Cause: The decreased availability of the facility cranes and delay in grout container characterization activities resulted in work scope delays.

Impact: Minimal/None.

Corrective Action: This milestone will be deleted upon completion and implementation of the revised PMP, which re-sequences B Cell clean out activities.

TRP-99-909	RL	Complete 2A Rack 382-B Cask Shipments	03/29/00	10/30/00
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1.4.10

Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules.

Impact: Currently three months behind schedule to support TPA milestone M-89-02 due November 2000.

Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone and mitigating schedule impact to M-89-02.

TRP-00-914	RL	PUREX Tunnels Ready to Receive	04/20/00	Proposed
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1.4.10

Cause: The decreased availability of the facility cranes and delay in grout container characterization activities resulted in work scope delays.

Impact: No impact. Work no longer planned for tunnel disposition.

Corrective Action: This milestone will be deleted upon completion and implementation of the revised PMP, which re-sequences B Cell clean out activities and eliminates use of Purex tunnels for storage of special-case waste (SCW).

MILESTONE EXCEPTION REPORT

<u>Number/WBS</u>	<u>Level</u>	<u>Milestone Title</u>	<u>Baseline Date</u>	<u>Forecast Date</u>
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TRP-00-915 1.4.10	RL	Complete the 324 LWHS Design & Construction	06/30/00	08/30/01
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Cause: Delays in design approval driven by need for additional characterization of the physical, installed transfer systems that will interface with LWHS.

Impact: Currently ten months behind schedule; however delay to TPA milestone M-89-02 due November 2000 is not affected.

Corrective Action: This activity will be performed in a different sequence than currently planned in support of final deactivation. The milestone completion date will be changed through implementation of the revised PMP.

TRP-00-931 1.4.10	RL	Complete SCW Shipments to Storage	09/29/00	04/30/01
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Cause: Building systems, including facility cranes, are not operating in a manner that allows progress on project schedules. Cranes are required to package, characterize and move waste containers.

Impact: Currently seven months behind schedule to support TPA milestone M-89-02 due November 2000. This activity is not on the TPA critical path.

Corrective Action: Increased emphasis has been placed on improving systems availability. Additionally, the revised PMP will re-sequence critical path activities which includes revising the completion date of this milestone.

FY 1999 OVERDUE – 1

TRP-99-937 1.4.10	RL	Remove, Package & Ship Excess Equipment from B Cell	09/30/99	Proposed Deletion
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Cause: The work scope related to this milestone was included in the 324 B Cell Cleanout work scope reconfiguration per approved BCR FSP-99-017. The milestone should have been deleted with the approval of FSP-99-017 but was overlooked.

Impact: None. This milestone is obsolete.

Corrective Action: A baseline change request will be processed to delete this milestone.