0073085

Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
EPA Conference Room
November 17, 1998

Appvl.: _____ Date: 12/15/98
Peter M. Knollmeyer, RL (A5-11)
IAMIT Representative

Appvl.: _____ Date: 12/15/98
Douglas R. Sherwood, EPA (B5-01)
IAMIT Representative

Appvl.: _____ Date: 12/17/98
Michael A. Wilson, Ecology (B5-18)
IAMIT Representative

Prepared by
Appvl.: _____ Date: 12/22/98
Larry D. Arnold (H8-67)
Fluor Daniel Hanford, Inc.

Distribution

Alexander, S.	Ecology	B5-18	Kronvall, C. M.	BWHC	L1-08
Black, G.	BHI	H0-11*	Lutter, D.	PNNL	P7-79
Blazek, M. L.	ODOE	Ore*	Miera, F.	RL	A5-15
Burke, B.	CTUIR		Morrison, R. D.	FDH	H8-67*
Cruz, R. O.	NezPerce		Palmer, E. J.	RL	R3-78
DeLeon, M.	FDH	N1-26	Rajner, N. J.	BHI	H0-11
Donnelly, J.	Ecology	B5-18	Rasmussen, J. E.	RL	A5-15*
Einan, D.	EPA	B5-01	Rodriguez, H. M.	RL	A5-15
Faulk, D.	EPA	B5-01	Romine, L.	RL	R3-79
Gerton, R.	RL	H0-12	Sanders, G. H	RL	A5-15*
Hajner, R. S.	BHI	H0-11	Sherwood, D. R.	EPA	B5-01*
Hertzel, J.	FDH	H8-67*	Templeton, D.	RL	L1-08
Hopkins, A.	FDH	N1-26	Walsh, J.	BHI	H0-11
Hughes, M. C.	BHI	H0-04	Wilson, M. A.	Ecology	B5-18*
Huston, D.	ODOE	Ore*	Wooley, T.	Ecology	B5-18
Jim, R.	YIN		Yerxa, J. K.	RL	A5-15
Knollmeyer, P.	RL	A5-11*	EDMC		H6-08

* W/Attachments

MSREV11.17

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
November 17, 1998

Richland ER Project

The quarterly status was presented by Ron Gerton, DOE-RL and BHI staff (Attachment 1). Mike Hughes and Scott Hajner, Bechtel Hanford Inc., presented the yearly Environmental Restoration program summary status. Ecology presented a position that Milestone M-13-19,.M-13-20, M-13-21 and M-13-23 will not be re-negotiated with date extensions, and that related M-20 milestones will be included with the 200 common area.

Facility Transition

M-82 - B-Plant Summary (Attachment 2) was presented by Andrea Hopkins, FDH Project Direction.

M-83 – PFP Stabilization Project Summary (Attachment 3) was provided by Larry Romine, DOE-RL. M-83-00 was not presented, but will be placed on a future IAMIT agenda when all IAMIT members are present.

Steve Alexander, Ecology, requested advance copies of future presentations prior to the day of the Milestone Review. All parites concurred.

300 Area

300 Area Tri-Party Agreement Milestone status (Attachment 4) and M-92 Stabilization Project (Attachment 5) status was presented by Dave Templeton, DOE-RL.

AGENDA
TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
CHAIRPERSON: P. M. Knollmeyer

TUESDAY, November 17, 1998 **712 Swift Blvd., Suite 5, EPA Conference Room**

TIME	MILESTONE	TITLE	RL DIVISION DIRECTOR	CONTRACTOR MANAGER	PRESENTER
9:00 am	M-13-00	Complete RI/FS Submittals	R. A. Holten	J. L. Walsh	R. A. Holten
	M-15-00	RI/FS Process Completion	R. A. Holten	J. L. Walsh	R. A. Holten
	M-16-00	Complete Remedial Actions	R. A. Holten	J. L. Walsh	R. A. Holten
	M-24-00	RCRA Well Installation	R. A. Holten	J. L. Walsh	R. A. Holten
	M-93-00	Disposition of Surplus Reactors	R. A. Holten	J. L. Walsh	R. A. Holten
10:30 am	M-82-00	B-Plant Transition	L. D. Romine	L. J. Olguin	D. T. Evans
	M-83-00	Plutonium Finishing Plant	L. D. Romine	L. J. Olguin	W. D. Seaborg
	M-89-00	324 Bldg. Closure of MW Units	L. D. Romine	L. J Olguin	D. W. Templeton
	M-92-00	Facilities for Cesium/Strontium, Sodium and Special Case Waste	L. D. Romine	L. J. Olguin	L. D. Romine

ATTENDEES

TPA MILESTONE REVIEW

DATE: NOVEMBER 17, 1998

NAME	ORGANIZATION	MAILSTOP	(√) FOR ATTACHMENTS
Steve Alexander	Ecology	-	
JON YERXA	DOE		
Felix R. Miera	RL/EAP	A5-15	✓
	FACILITIES	TRANSITION	10:30AM
Manny DeLeon	FDH		
C M KRONVALL	BWHC	L1-08	
D W Templeton	DOE-RL	L1-08	
T. Wooley	Ecology	B-5-18	
Larry Romine	DOE	R3-79	
Arlen Hopkins	FDH		✓
Delores K Lutter	PNNL	P7-79	✓
ERLINDA J. PALMER	DOE-RL	R3-78	✓

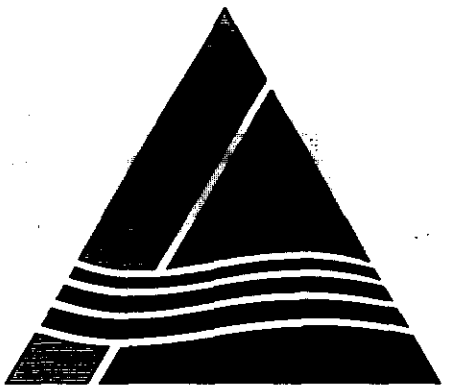
ATTENDEES

TPA MILESTONE REVIEW

DATE: NOVEMBER 17, 1998

NAME	ORGANIZATION	MAILSTOP	(√) FOR ATTACHMENTS
LARRY ARNOLD	EPA/TPAT	H4-67	✓
Jack Donnelly	Ecology		
Dennis Faulk	EPA		
R. SCOTT HOJNER	BHI		
RON GERTON	DOE-RL	H0-12	
Michael C. Hyde	BHI		
Dave Einan	EPA		
Doug Hunton	OR. Office of Energy		✓
Rico O. Cruz	Nez Perce ERWM		
Hector M. Rodriguez	DOE-RL EAP		
JOHN RAYNOR	BHI-RL	H0-11	
Gayle Black	BHI-	H0-11	✓
JOHN WALSH	BHI	H0-11	
PETE KNOLLMEYER	DOE-RL/AMF	A5-11	✓

TPA Quarterly Review



Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

November 17, 1998

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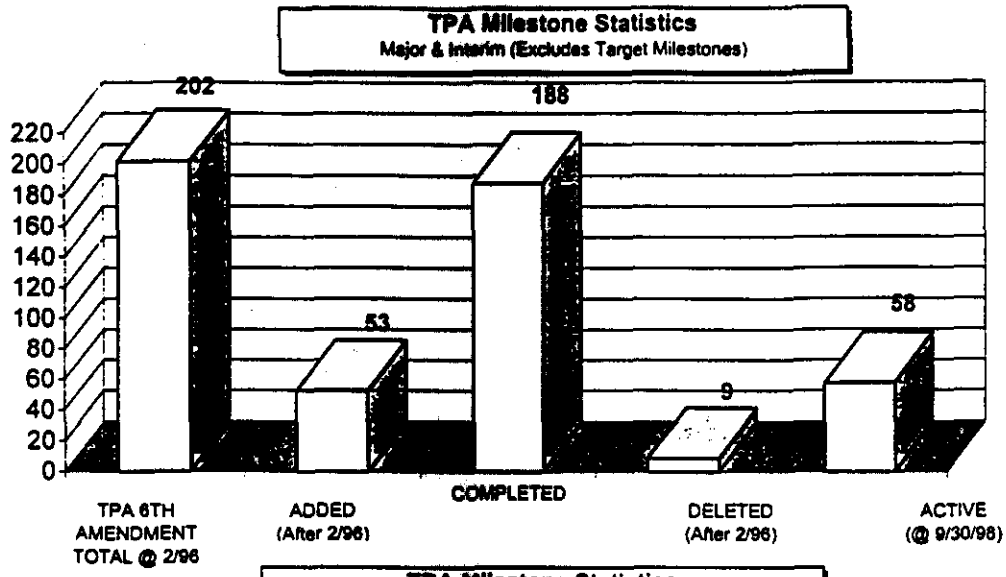
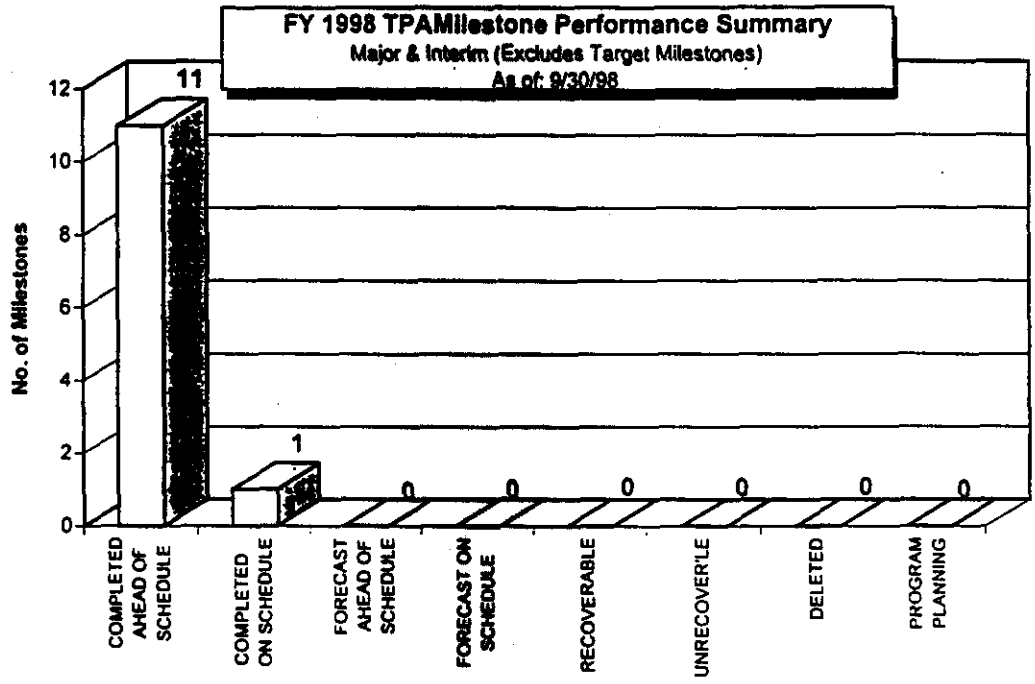
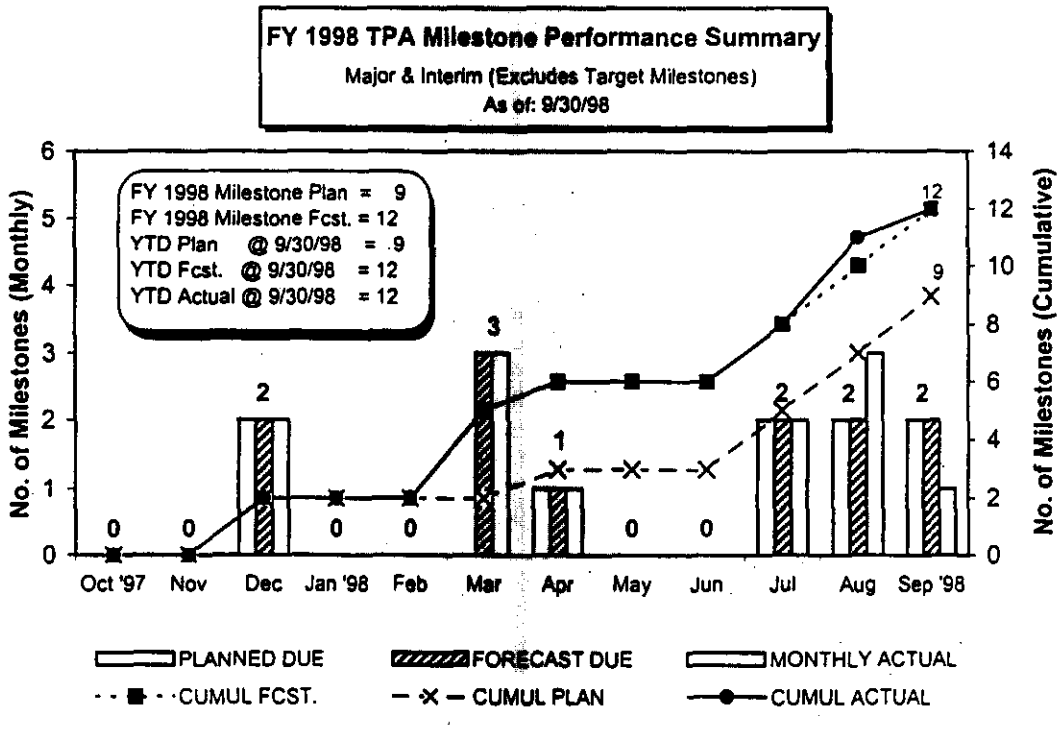


TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

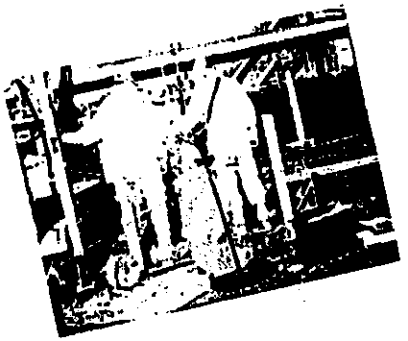
	Completion Date	Total @2/96	Added After 2/96	TOTAL	Less Completed @ 9/30/98	Less Deleted After 2/96	Active @ 9/30/98
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	12/31/2005 (M-13-00P)	34	7	41	-21	-8	12
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00C)	84	2	86	-81	0	5
M-16-00 Remedial Design / Remedial Action	9/30/2018 (M-16-00)	20	21	41	-24	-1	16
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/2004 (M-20-00)	13	0	13	-7	0	6
M-24-00 RCRA Groundwater Monitoring	12/31/2003 (M-24-00O)	48	9	57	-46	0	11
M-70-00 ERDF Operational	7/01/1996A (M-70-00)	3	0	3	-3	0	0
M-93-00 Reactors on River Final Disposition	TBD (M-93-00)	0	14	14	-6	0	8
TOTAL		202	53	255	-188	-9	58

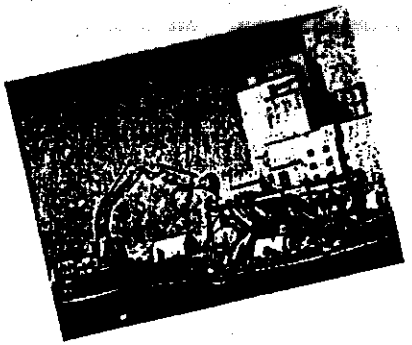
FY 1998 TPA MILESTONE PERFORMANCE





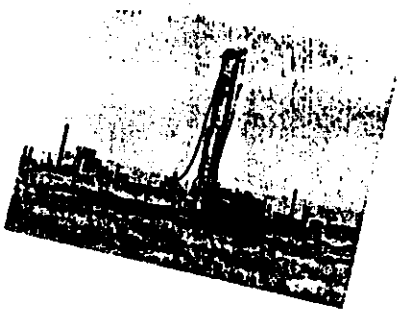
FY 1998 Interim TPA Milestone Summary

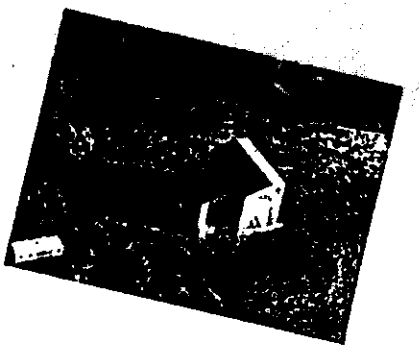


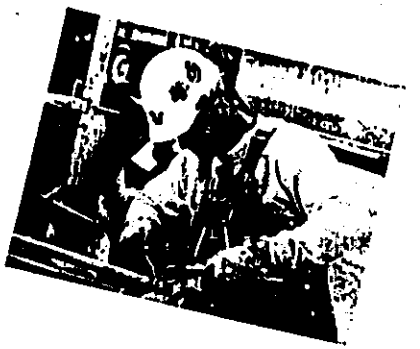


		Date Completed	Ahead/On / Behind Schedule
M-24-001	Install RCRA Groundwater Monitoring Wells at the rate of 0 to 50 in CY 1997 (if required)	12/30/97A	☑ ☐ ☐
M-93-01	Submit recommendation for final disposition of the 105-C Fuel Storage Basin	12/17/97A	☑ ☐ ☐
M-93-07	Initiate 105-F Reactor ISS Characterization and design	3/31/98A	☑ ☐ ☐
M-93-09	Initiate 105-F ISS Reactor Field Activities	3/25/98A	☑ ☐ ☐
M-93-13	Initiate 105-DR Reactor ISS Characterization and design	3/09/98A	☑ ☐ ☐
M-16-06C	Submit the 100-HR-3/100100-KR-4 Performance Evaluation Report	4/24/98A	☑ ☐ ☐
M-93-02	Submit the 105-C Surveillance and Maintenance plan. This milestone will be met by a S&M Plan submittal for the 105-C	7/30/98A	☑ ☐ ☐
M-16-01E	Complete N Reactor/100-N Area Deactivation	7/23/98A	☑ ☐ ☐
M-13-18	Submit 200 Area Implementation Plan	8/31/98A	☐ ☑ ☐
M-16-03C	Submit the 618-4 Burial Ground Excavation report as the final BHI document	8/18/98A	☑ ☐ ☐
M-93-03	Complete 105-C Reactor Interim Safe Storage Large Scale Demonstration Project	9/29/98A	☑ ☐ ☐
M-16-92A	Initiate excavation associated with ERDF Cells 3&4 Construction	8/19/98A	☑ ☐ ☐

* *M-16-11 Begin System Operation of 100-KR-4 (completed ahead of schedule in FY 1997 - not in totals)*







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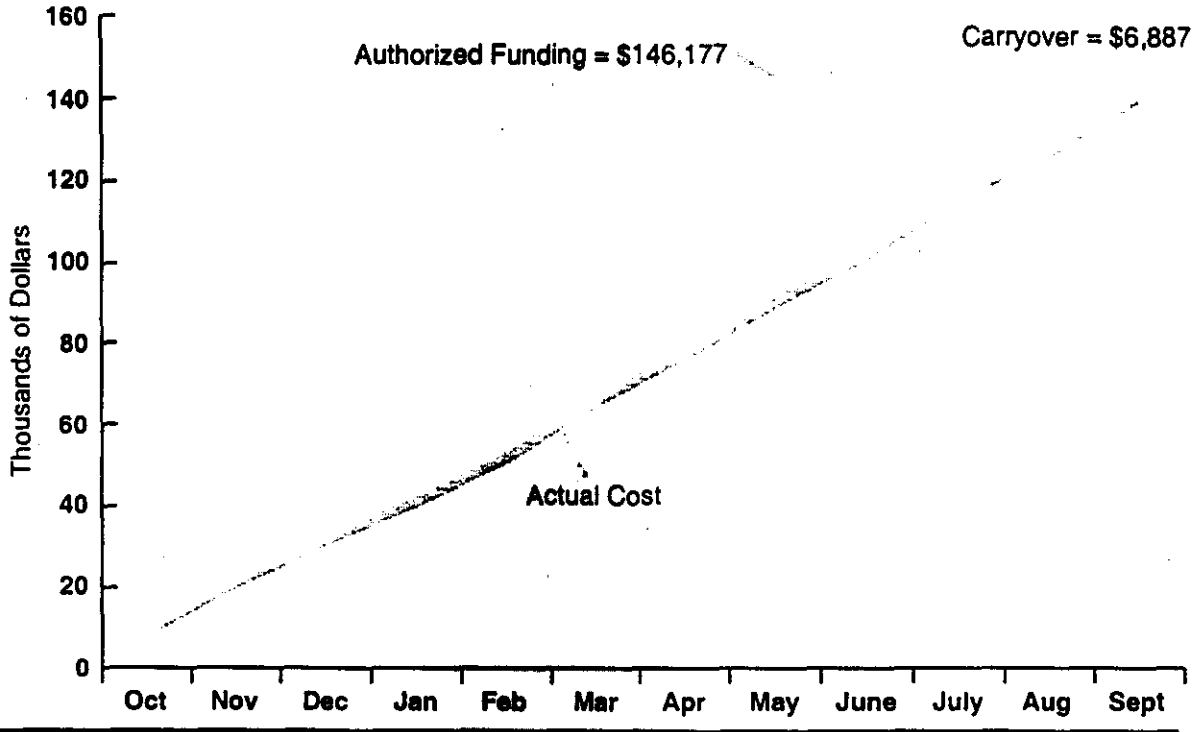
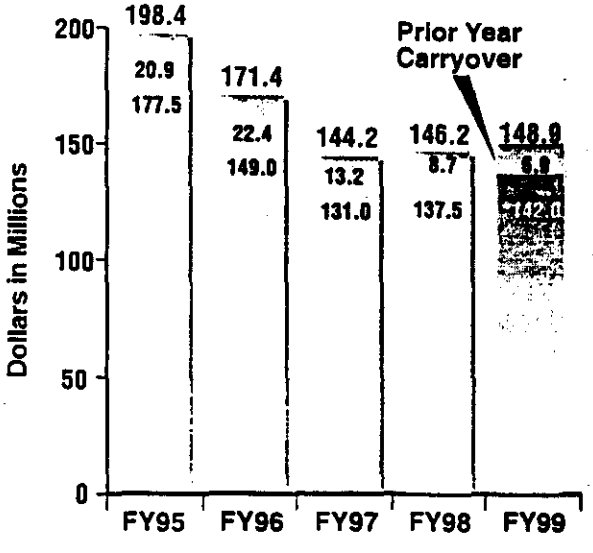
ER Project Summary
Funding



Authorized Funding	37,623	119,184	142,917	142,917	143,840	143,840	143,840	143,918	144,419	146,177	146,177	146,177
Actual Cost	9,031	20,382	31,095	40,360	51,522	64,976	76,864	89,971	101,573	115,600	127,072	139,290

Funding



* FY99 includes $5.0 million additional funding for F and DR Reactor (ISS) Interim Safe Storage

Carryover Funding (using FY99 rates)	
Remedial Actions	$1,056
Groundwater Management	904
Groundwater Vadoze Zone Project	150
D&D	799
N Area Project	234
S&M Transition Facility	436
Program Management-ERC	1,698
Program Management-RL	1,610
TOTAL	$6,887

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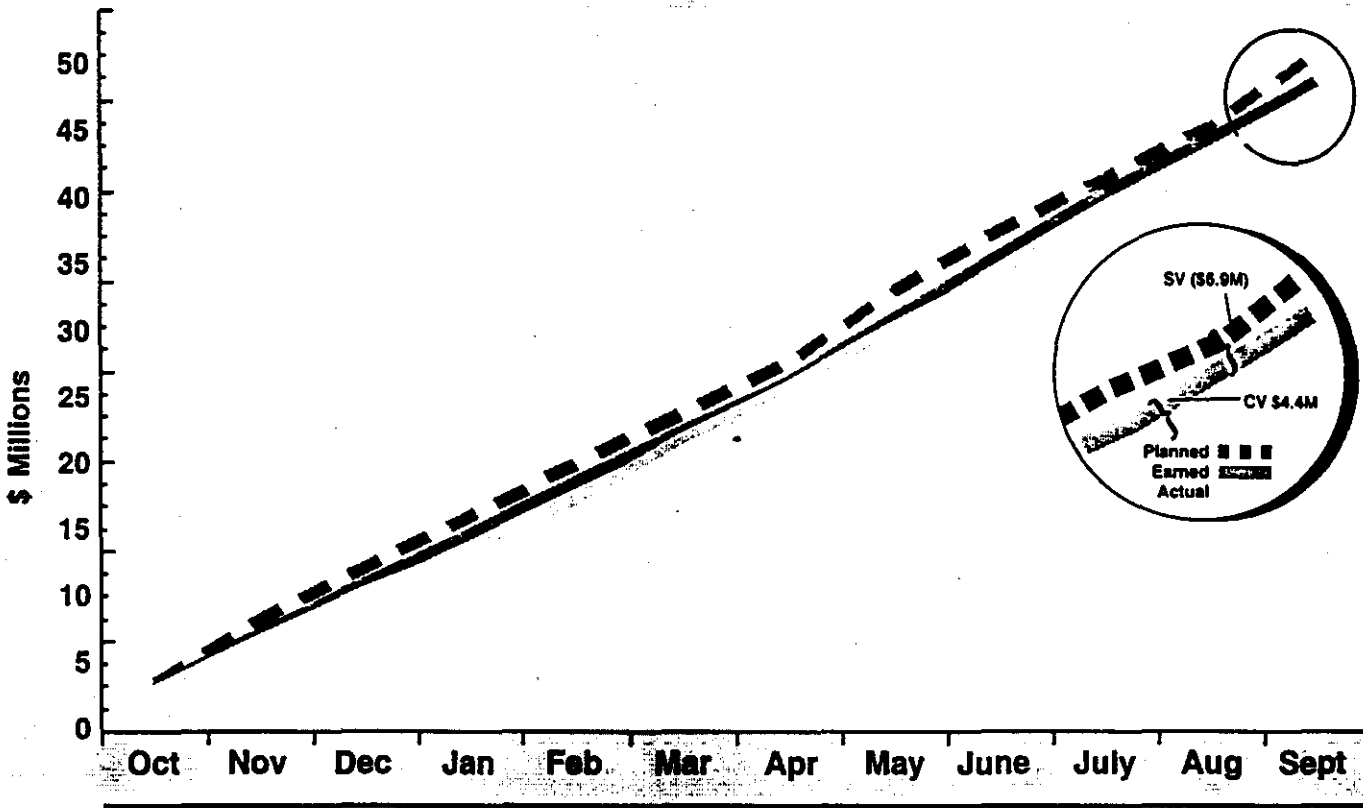
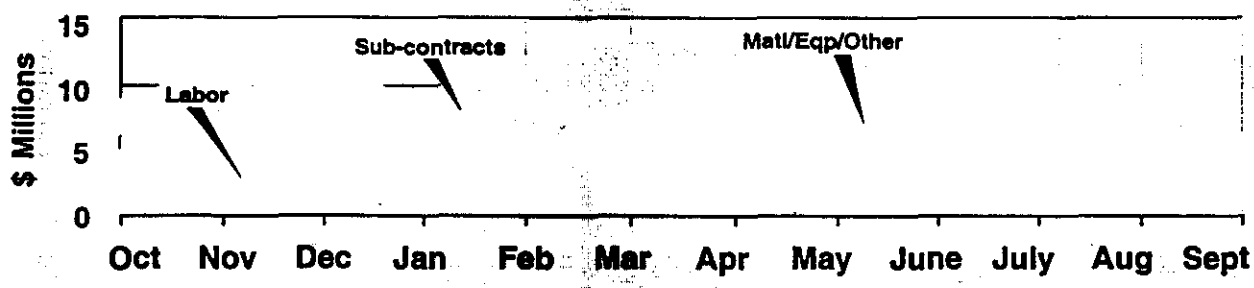
FY98 Project Performance (Cumulative)



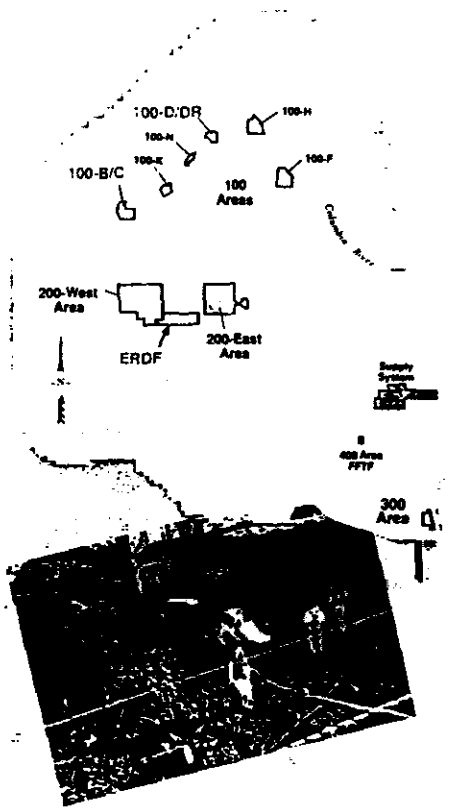
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	10.6	25.0	36.6	47.5	59.4	70.7	82.5	97.9	111.1	122.5	133.7	150.6
BCWP (Earned)	9.6	21.7	33.0	44.0	55.4	66.9	78.1	92.1	105.9	119.4	131.0	143.7
ACWP (Actual)	9.0	20.4	31.1	40.4	51.5	65.0	76.9	90.0	101.6	115.6	127.1	139.3

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	4.9	6.3	4.7	4.6	5.5	7.1	5.8	7.0	5.8	5.4	5.1	2.0	64.2
Matl/Eqp/ Other	1.1	1.5	1.4	1.6	1.4	1.7	1.2	1.2	1.1	1.8	1.8	4.3	20.1
Sub-contracts	3.0	3.6	4.6	3.1	4.3	4.7	4.9	4.9	4.6	6.8	4.6	5.9	55.0
Total	9.0	11.4	10.7	9.3	11.2	13.5	11.9	13.1	11.5	14.0	11.5	12.2	139.3

Remedial Action & Waste Disposal Project



100 Area

100-FR/HR/KR

- Complete Group 4 design
  Group 4 design (100-HR, FR, KR-1 Liquid Sites) completed

100-HR

- Initiate 100 Area Burial Ground Feasibility Study
  The Decisional Draft of the 100 Area Burial Ground Focused Feasibility Study was initiated in November 1997
- Complete 100 Area Remaining Sites Proposed Plan
  The final 100 Area Remaining Sites Proposed Plan (Rev. 0) is forecast to be issued in the 1st half of FY99 due to extended review
- Assist in issuance of 100 Area Remaining Sites ROD
  Assistance in issuing the 100 Area Remaining Site ROD is forecast to continue in the 1st half of FY99 due to extended review

100-DR

- Issue 190-D Chromium Source Sampling Final Data Report
  The 190-D Chromium Source Sampling Final Data Report was issued in September 1998
- Issue 100-D Ponds Closure Plan
  The 100-D Ponds Closure Plan was submitted to RL in March 1998, incorporated into Mod D of the RCRA Site-Wide Permit, and will be certified in November, 1998

100-N Area

- Assist in issuance of 100-N Facilities EE/CA Action Memorandum
  EE/CA support is ongoing. The Action Memorandum is scheduled to be signed in the first half of FY99
- Assist in issuance of 100-NR-1 & 2, and 100-NR-1 TSD RODs
  ROD support is ongoing. The ROD is scheduled to be signed in the first half of FY99

100 Area Remediation

- Removed 584K tons of waste from 100 Area waste sites

Excavated

- 116-C-5 Retention Basin
  Base volume completed, plumes encountered. Plumes will be completed in early FY99
- 116-B-13 South Sludge Trench
  Completed in September
- 116-B-14 North Sludge Trench
  Completed in September
- 116-D-7 Retention Basin
  Footprint excavation completed in July 1998
- 116-B-1 Process Effluent Trench
  Deferred to the first quarter of FY99 due to the discovery of additional plumes at other waste sites

In Process

- 116-B-11 Retention Basin
  Base volume complete, plumes encountered. Plumes will be completed in early FY99
- 116-DR-9 Retention Basin
  Progressing on schedule

FY97 Carryover

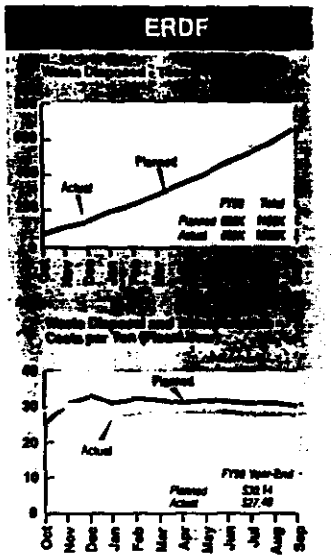
- Complete backfill of 116-C-1
  Completed July 1998
- Excavate 116-B-1
  Deferred to the first quarter of FY99 due to the discovery of additional plumes at other waste sites

ERDF

- Receive 621K tons of contaminated soil, debris, and miscellaneous material
  669K tons of waste disposed in FY98
- Transportation of waste totals 10.9M ton miles
  10.3M ton-miles of waste transportation in FY98

ERDF Expansion

- Clearing and grubbing
  Clearing complete in February 1998. Water, electrical, and fencing completed in May 1998
- Complete ERDF expansion design for cells 3 & 4
  ERDF expansion design completed in February 1998
- Begin construction of cells 3 & 4
  Construction of cells 3 & 4 started August 19, 1998



200 & 300 Areas

200 Area

- Complete borehole characterization at the 216-B-3-2 Ditch
  The borehole characterization at the 216-B-3-2 Ditch has been completed. The summary report was issued in July 1998
- Complete three-year field testing activities, including demobilization and interim report
  Activity changed to "Continue Barrier Monitoring Activities at a Reduced Level." This revised activity has been completed

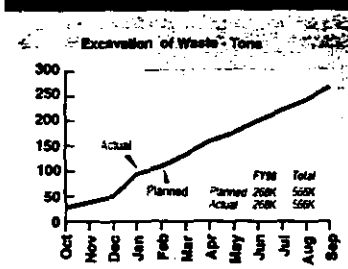
200 Area NPL Common

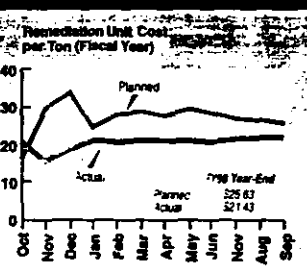
- Issue Draft A of 200 Area Strategy Implementation Plan
  Draft A of the 200 Area Strategy Implementation Plan was submitted to the regulators in August 1998, meeting TPA Milestone M-13-10

300-FF-1

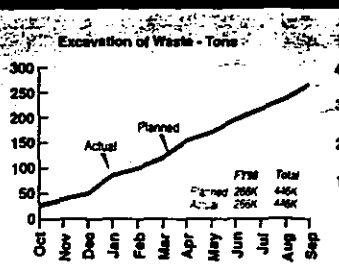
- 618-4 Burial Ground
  Rescheduled to FY00 due to high contamination levels
- 300-49 Dumping area (Landfill 1A)
  Rescheduled to complete excavation in FY99 and backfill in FY00 due to high contamination levels discovered in the 618-4 Burial Ground
- 628-4 Burn Pit (Landfill 1D)
  Lead issue resolved on July 14, 1998. Work rescheduled to FY99 due to high contamination levels discovered in the 618-4 Burial Ground
- Complete RCRA Certification Closure of Process Trenches
  Completed July 10, 1998
- Complete 618-4 Burial Ground 618-4 Excavation Report
  Completed August 1998 meeting TPA Milestone M-16-03C
- Complete two rounds of groundwater sampling
  Completed both rounds of groundwater sampling

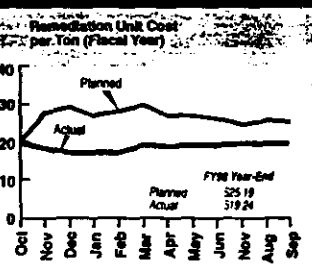
100-BC Remediation



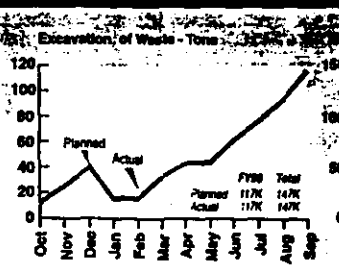


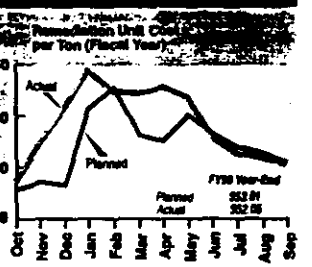
100-DR Remediation





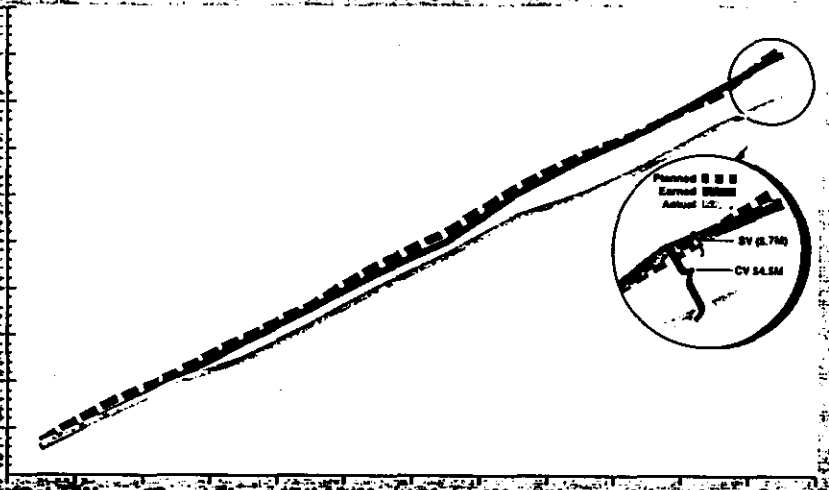
300-FF Remediation





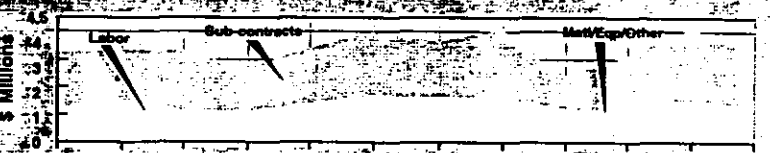
Remedial Action & Waste Disposal Project

FY98 Project Performance (Cumulative)



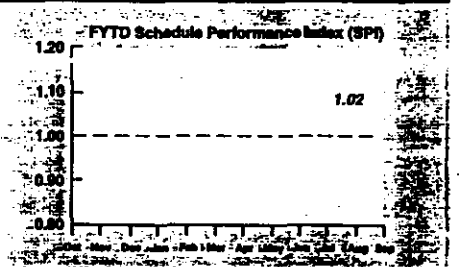
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
	3.4	7.8	11.8	14.7	16.1	22.5	28.1	36.8	36.3	37.2	40.7	45.8
	2.9	6.7	10.3	14.3	17.8	21.6	24.9	30.0	33.8	37.0	41.2	45.1
	3.2	6.8	9.8	12.5	15.9	18.9	23.5	27.6	30.0	33.2	37.3	40.6

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	1.2	1.5	1.1	1.0	1.3	1.6	1.3	1.5	1.1	1.0	1.3	1.2	15.1
Matl/Eqp/ Other	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.1	1.2
Sub-contracts	2.0	1.8	2.2	1.6	2.0	2.3	2.0	2.5	1.2	2.0	2.6	2.1	24.3
Total	3.2	3.3	3.3	2.7	3.4	4.0	3.6	4.1	2.4	3.1	4.1	3.4	40.6

Schedule Performance

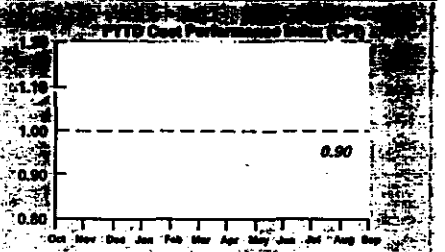


Schedule Variance (SV)

Behind Schedule

- Sampling activities at 116-B-14 #3 and 116-B-11 were impacted by 116-C-5 plumes
- FY98 funding concerns delayed excavation of ERDF cells 3 & 4

Cost Performance



Cost Variance (CV)

Cost Underruns

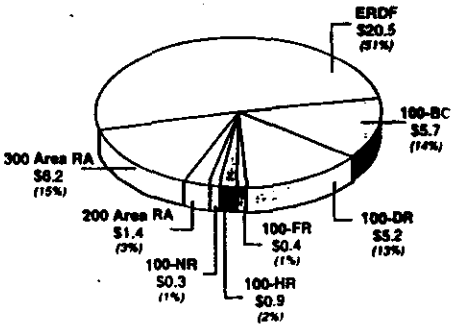
- Reductions in costs, labor, and sampling at the Near River Liquid Sites
- Improved project efficiency at the North Process Pond
- ERDF construction contract requirements less than planned
- ERDF waste disposal underruns reflect lower radiation monitoring labor
- Reduced burial liner purchases

Issues

- The first complete draft of the burial grounds FFS has been completed, and is undergoing final revision. Agreement on final remedial action between the regulators and DOE has not been reached. Strategy: Re-assemble burial grounds task team (DOE, EPA, Ecology, and BHI) to review and reach consensus on a proposed remedy.
- Lead contaminated soil that exceeds ERDF waste acceptance criteria has been discovered in Landfill 1D and the 618-4 burial ground at 300-FF-1. Excavation soils can not be disposed of at ERDF until a plan for further characterization/ treatment/disposal is developed. EPA has advised RL that a treatability variance will not be granted. Funding for treatment has been incorporated into DWP. Seeking regulator approval of the treatment process.

Subproject Actual Costs

(Project Total $40.6 Million)

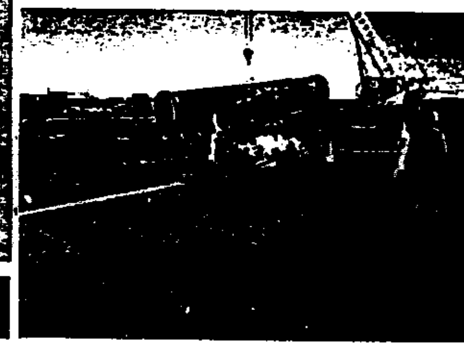


E9810039 13b

Remedial Action & Waste Disposal Project

FY98 Performance Measures—Milestone Summary

Milestone	Description	DWP Due Date	Current Baseline Due Date	Forecast (F) Actual (A) Date	Comments
Waste Sites					
FY98-PM-R11	Complete excavation of (316-5) 300 Area Process Trenches	10/07/97	02/03/98	02/03/98 (A)	Completed on schedule. Base excavation completed on original schedule; additional plumes extended delayed closure.
FY98-PM-R02	Complete excavation of the 116-C-5 Retention Basin	12/31/97	05/29/98	10/16/98(F)	Base excavation completed 02/25/98 on schedule; additional plume will delay final completion.
FY98-PM-R05	Complete excavation of 116-B-14 Trench	02/28/98	03/31/98	09/17/98 (A)	Completed behind schedule. Resequenced the waste excavations after removal of pipeline excavation from current contract.
FY98-PM-R04	Complete excavation of 116-B-13 Trench	02/28/98	09/30/98	09/25/98 (A)	Completed ahead of schedule. Resequenced the waste excavations after removal of pipeline excavation from current contract.
FY98-PM-R10	Complete excavation of (628-4) Landfill 1D 300-FF-1 OU	03/15/98	02/03/98	01/26/98 (A)	Completed ahead of schedule. Landfills 1A and 1B replanned due to high contamination levels.
FY98-PM-R01	Complete excavation of 116-D-7 Retention Basin	03/31/98	09/30/98	07/10/98 (A)	Completed ahead of schedule.
Added Waste Sites					
FY98-PM-R14	Complete excavation of 1607-D2 Septic Tank Drain Field	09/30/99	02/27/98	02/27/98 (A)	Completed on schedule. Waste site resequenced from FY99 to FY98.
FY98-PM-R15	Complete excavation of 100-D-21 Sludge Pit (formerly 107-D-2)	09/30/99	03/14/98	03/17/98 (A)	Completed ahead of schedule. Waste site resequenced from FY99 to FY98.
FY98-PM-R13	Complete excavation of 100-D-20 Sludge Pit (formerly 107-D-3)	09/30/01	03/31/98	03/31/98 (A)	Completed on schedule. Waste site resequenced from FY01 to FY98.
FY98-PM-R12	Complete excavation of 100-D-18 Sludge Pit (formerly 107-D-4)	09/30/99	04/15/98	03/10/98 (A)	Completed ahead of schedule. Waste site resequenced from FY99 to FY98.
Deferred Waste Sites					
FY98-PM-R07	Complete excavation of (618-4) Burial Ground 300-FF-1 OU	12/31/97	01/10/00	04/11/00 (F)	Resequenced to FY99.
FY98-PM-R08	Complete excavation of (300-49) Landfill 1A 300-FF-1 OU	01/31/98	[illegible]	[illegible] (F)	Landfills 1A, 1B and 1D replanned due to high contamination levels. Resequenced to FY99.
FY98-PM-R09	Complete excavation of (300-50) Landfill 1B 300-FF-1 OU	02/28/98	[illegible]	[illegible] (F)	Resequenced to FY99.
FY98-PM-R03	Complete excavation of 116-B-1 Trench	06/15/98	04/30/99	12/15/98 (F)	Resequenced to FY99 due to discovery of additional plumes at other waste sites.
FY98 Performance Measures Status Thru September		10	10	9(A); 1(F)	
FY98 DWP vs. Current Baseline Totals		10	10		



Waste Sites

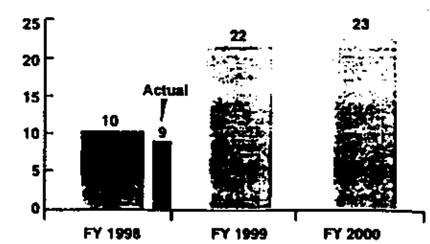
FY98
- *116-D-7 Retention Basin*
- *116-C-5 Retention Basin*
- *116-B-1 Trench* (To FY99)
- *116-B-13 Trench*
- *116-B-14 Trench*
- *618-4 Burial Ground* (To FY99)
- *300-49 (Landfill 1A)* (To FY99)
- *300-50 (Landfill 1B)* (To FY99)
- 628-4 (Landfill 1D)
- 316-5 (300 Area Process Trenches)

FY99
- *100-D-18 Sludge Disposal Trench* (To FY98)
- *100-D-21 Sludge Disposal Trench* (To FY98)
- 1607-D2 Septic Tank Drain Field (To FY98)
- *116-DR-9 Retention Basin*
- *116-B-2 Fuels Storage Basin Trench*
- *166-B-3 Crib*
- *116-B-6A Crib*
- 116-B-16 Storage Tanks
- *166-B-6B Crib*
- *116-B-9 French Drain*
- 116-C-2A Crib
- 116-C-2B Pump Station
- 116-C-2C Sand Filter
- *100-H-21 Pipelines*
- *116-H-2 Trench*
- 100-H-17 Trench
- 316-1 (South Process Pond)
- *116-B-10 Drywell*
- *116-B-12 Crib*
- *116-B-11 Retention Basin*
- 316-2 (North Process Pond)
- 100-B-8 Pipelines
- 100-C-6 Pipelines

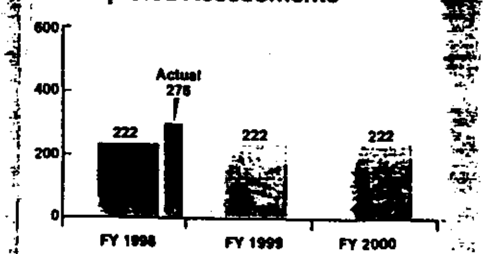
FY00
- *116-D-1A Storage Basin Trench*
- *116-D-1B Storage Basin Trench*
- *116-D-2 Crib*
- 116-D-3 French Drain
- *116-D-4 French Drain*
- *116-D-6 French Drain*
- *116-DR-1 & 2 Disposal Trench*
- 100-D-12 Sodium Dichromate Station
- 100-D-52 Drywell
- 116-DR-3 Storage Basin Trench
- 116-DR-4 Pluto Crib
- 116-DR-6 Liquid Disposal Trench
- 116-DR-7 Inkwell Crib
- *116-D-9 Crib*
- *116-H-7 Retention Basin*
- *116-H-1 Trench*
- 100-H-5 Trench
- 116-H-3 Crib
- 100-H-24 Trench
- 116-F-14 Retention Basin
- 116-F-2 Trench
- 100-D-48 D Pipelines
- 100-D-49 DR Pipelines

FY01
- *100-D-20 Sludge Pit* (To FY98)

Current Waste Sites Planned



Completed Assessments



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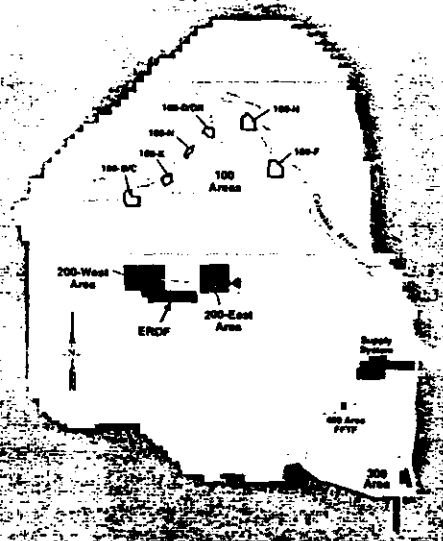
Groundwater Management



Action Plan

100 Area

- Operate pump and treat systems at 100-HR-3, 100-KR-4, and 100-NR-2, including performance monitoring
  Ongoing
- Disposal of 100 Area Investigation-Derived waste.
  Complete
- Minor subcontract work for 100-HR-3, and 100-KR-4
  Complete
- Complete 100-NR-2 Proposed Plan by incorporating with Remedial Action Waste Disposal Plan
  Complete

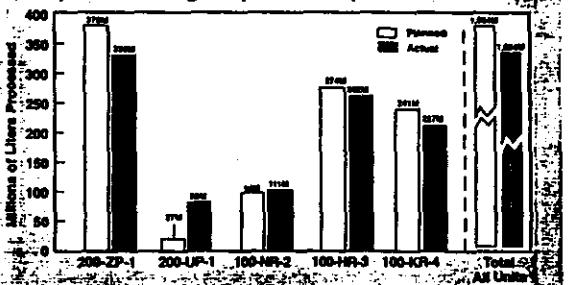
200 Area

- Operate pump and treat systems for 200-ZP-1 and 200-UP-1 including performance monitoring
  Ongoing
- Operate vapor extraction system at 200-ZP-2, including performance monitoring
  Second half of FY98 - Complete
- Disposal of 200 Area Investigation-Derived Waste
  Ongoing
- Perform spectra logging adjacent to PFP Cribs
  Complete

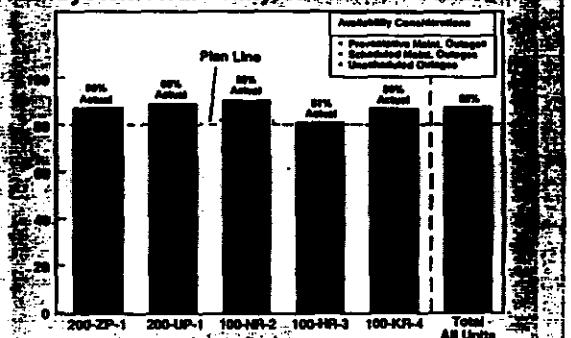
Other Completed Work

- *Managed site-wide groundwater work scope to ensure groundwater is being contained and to maintain compliance with CERCLA and RCRA requirements as implemented through the Tri-Party Agreement*
- *Issued 100-HR-3 and 100-KR-4 Performance Evaluation Report*
- *Decommissioned 28 Hanford Site wells*
- *Performed well maintenance activities for sampled Hanford Site wells*
- *Issued Annual summary report for 100-NR-2, 200-UP-1, and 200-ZP-1 pump and treat systems and operable units*
- *Issued RCRA Quarterly Reports*
- *Issued Draft Hanford Composite Analysis Report*
- *Issued FY97 Sitewide Groundwater Monitoring Report*
  Complete

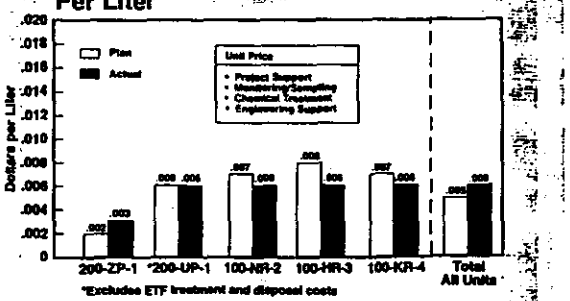
FY98 Groundwater Processed
(Actual through September 30)



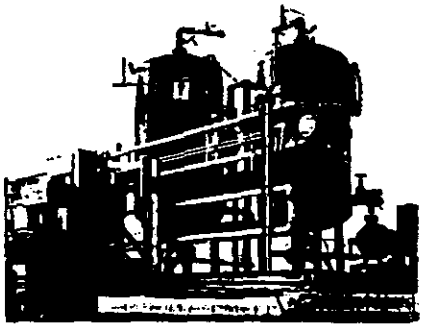
Groundwater Pump & Treat Units System Availability



Groundwater Processing Unit Price Per Liter



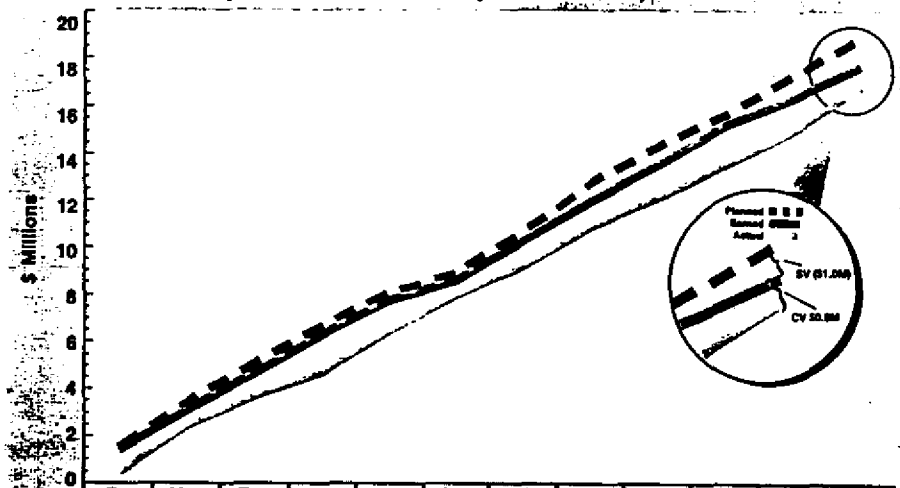
*Excludes ETF treatment and disposal costs



E9810

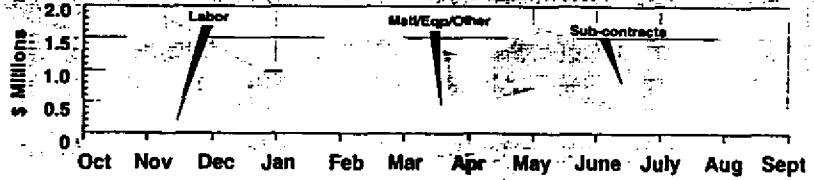
Groundwater Management

FY98 Project Performance (Cumulative)



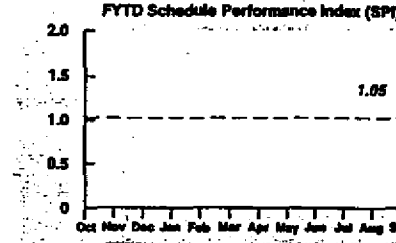
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	1.5	3.4	5.1	6.7	8.3	8.9	16.7	12.7	14.2	15.7	17.2	18.7
BCWP (Earned)	1.4	3.1	4.7	6.3	7.9	8.5	16.3	12.5	13.5	15.2	16.4	17.7
ACWP (Actual)	0.4	2.4	3.7	4.7	6.5	8.0	16.3	8.2	12.1	13.8	15.0	16.9

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	0.4	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.3	4.6
Matl/Eqp/ Other	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.1	0.2	0.1	1.1
Sub-contracts	0.0	1.3	0.9	0.6	1.3	1.0	0.8	1.0	1.0	1.0	0.9	1.4	11.2
Total	0.4	2.0	1.4	0.9	1.7	1.5	1.2	1.7	1.4	1.4	1.5	1.8	16.9

Schedule Performance

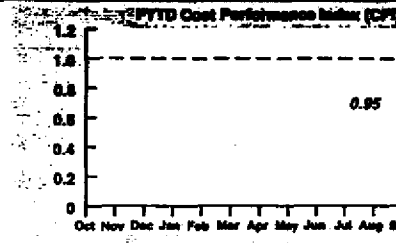


Schedule Variance (SV)

Behind Schedule

- Frequency of resin regeneration did not occur as planned
- Delays in reporting for development of the 200 Area Conceptual Model, and completion of the Borehole Data packages
- Peer review delays
- Delay in sample disposal activities

Cost Performance



Cost Variance (CV)

Cost Underruns

- Labor efficiencies
- Reduced use of resin regeneration contract
- Efficiencies in preparing the logging data library, evaluating leaking water systems, and preparation of the vadose monitoring plan

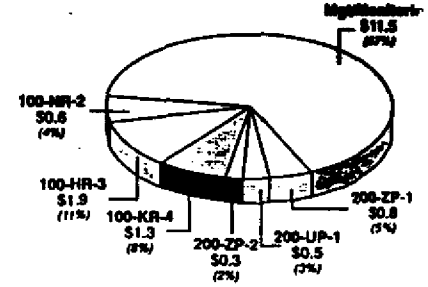
Cost Overruns

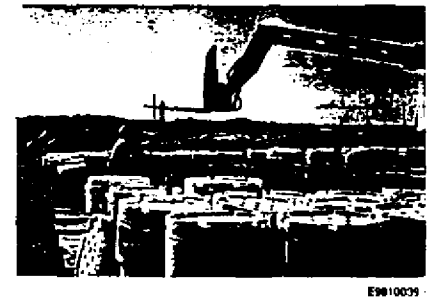
- Waste disposal activities have been greater than anticipated
- Offsite analysis more extensive than planned
- Additional engineering support was required

Issues

- Disposal of organic/carbonaceous waste is currently not permitted at the ERDF due to regulatory requirements
  - *A site-wide petition is under review by the regulators. All waste impacted by this issue must continue to be stored and monitored until a final determination is made*
- Legacy waste and equipment at 200 East Pipe Yard. Mulitmedia inspection will result in findings on legacy waste storage
- Speculatively stored materials, equipment and miscellaneous materials need to be processed, disposed and pipe yard eliminated
- Ecology needs to decide on a path forward on 200-UP-1. Operations approved through FY99. Discussion with Ecology will continue on a path forward. Decision due by December 31, 1998

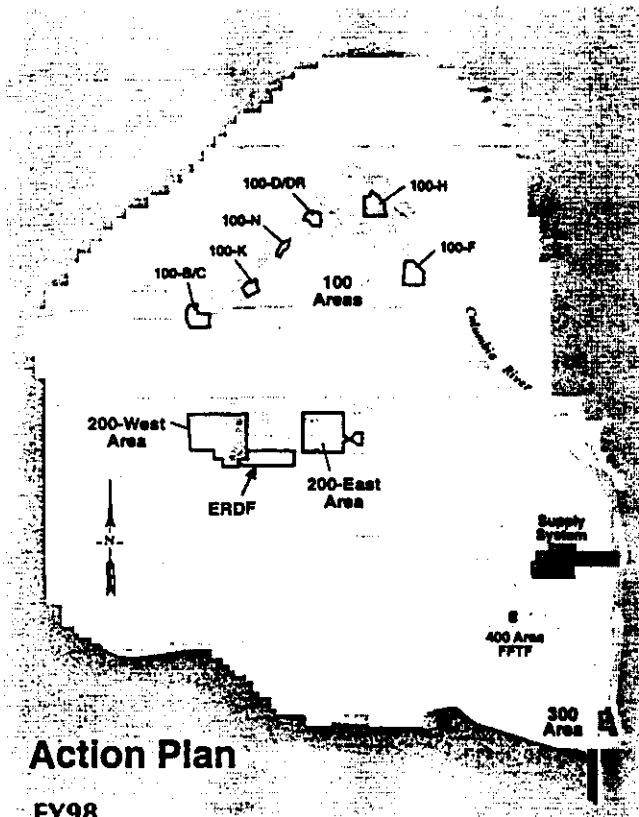
Subproject Actual Costs
(Project Total $16.9 Million)





E9810039

Groundwater/Vadose Zone Integration Project



Action Plan

FY98

- Submit a plan to RL by February 13, 1998 that will outline preparation of a Project Specification Plan, a Project Management Plan, the Cost and Schedule Baseline, and the Public Involvement Plan
  Plan was submitted to RL on February 13, 1998
- Initiate meetings with stakeholders, contractors, Tribal Nations, and regulators to discuss issues and the need for participation by these groups
  Weekly Project Participation meetings have been held routinely since the April 14, 1998 Kickoff meeting
- Initiate meetings to discuss the approach to the project with RL, PHMC, and PNNL. Co-locate the integrated project team
  An integrated team of BHI, PNNL, and PHMC has been formed and co-located. Definition of roles and responsibilities is an ongoing activity
- Develop Initial Baseline Long Range Plan
  This work is ongoing and will continue into FY99
- Develop FY99-FY01 Detailed Work Plan for September, signature by DOE
  Complete
- Develop draft Project Specification and draft Public Involvement Plan
  Complete

Other

- *Issued Groundwater/Vadose Zone Integraton Project Plan" (DOE-98-03) on April 13, 1998*
- *Issued "Tribal Government and Public Consultation Plan" on July 8, 1998*
- *Initiated public involvement process, first public workshop held in July*
- *Obtained national laboratory participation*
- *Established "Expert Panel" to provide technical expertise and advise on issues*
- *Established web site to aid in public notification*

Phases

Phase I

Pre-Planning—Develop the planning approach for management and integration of the Hanford Site vadose zone and groundwater programs

Phase II

Integration and Formulation—Evaluate existing Hanford Site programs; identify existing data gaps; define the needs, goals, and objectives for an effective new program; set the near-term and long-range priorities for the program; prepare a cohesive plan that reflects this information

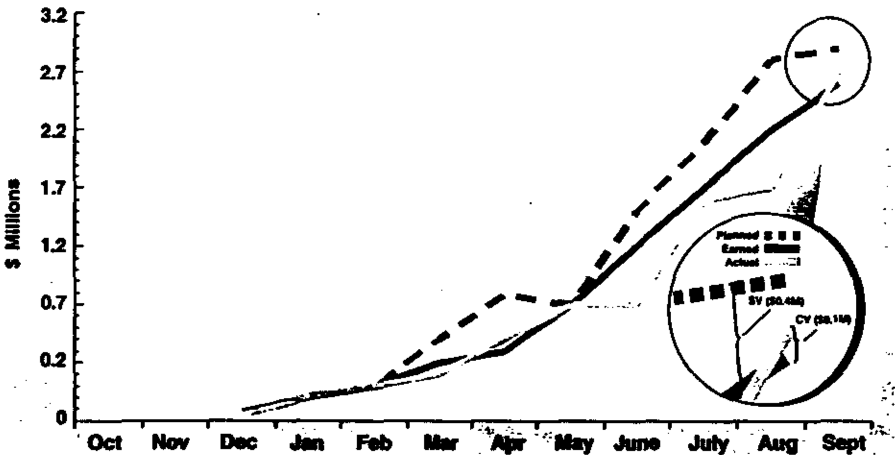
Phase III

Implementation—Carry out detailed work plans for priority activities beginning in FY99; refine plans as appropriate

Expert Panel Site Tour

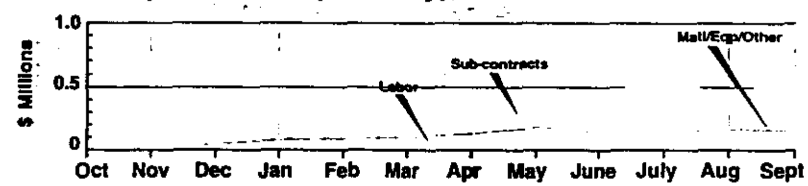
Groundwater/Vadose Zone Project

FY98 Project Performance (Cumulative)



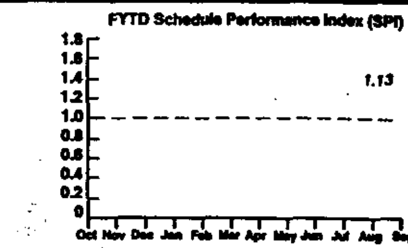
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	-	-	0.07	0.20	0.30	0.70	[illegible]	[illegible]	1.78	2.37	3.05	3.24
BCWP (Earned)	-	-	0.07	[illegible]	0.30	[illegible]	[illegible]	1.00	1.50	2.06	2.52	2.8[illegible]
ACWP (Actual)	-	-	0.05	0.20	0.30	0.40	0.65	0.96	1.00	1.93	2.07	2.98

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	0.0	0.00	0.05	0.08	0.09	0.10	0.13	0.17	0.16	0.16	0.16	0.15	1.25
Matl/Eqp/Other	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02
Sub-contracts	0.0	0.00	0.00	0.02	0.03	0.01	0.14	0.12	(0.11)	0.77	(0.02)	0.75	1.71
Total	0.0	0.00	0.05	0.10	0.12	0.11	0.27	0.30	0.05	0.93	0.14	0.91	2.98

Schedule Performance

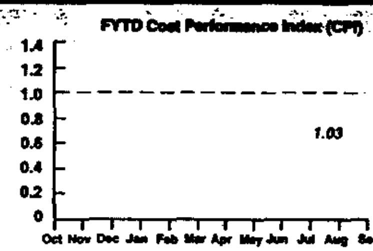


Schedule Variance (SV)

Behind Schedule

- Request for additional candidates for the expert panel and the late selection of panel members. The second expert panel meeting was deferred to FY99

Cost Performance



Cost Variance (CV)

Cost Overruns

- Project specification preparation more extensive than planned

Cost Underruns

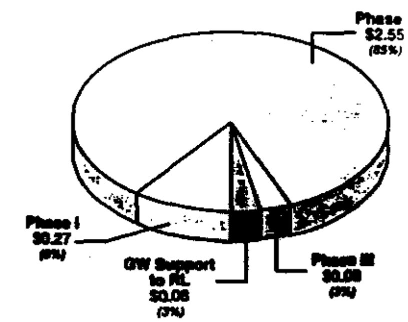
- Labor efficiencies

Issues

- Project funding for FY99 has not been determined. The ability of the project to make definitive decisions on future actions is being impacted

Subproject Actual Costs

(Project Total $2.98 Million)



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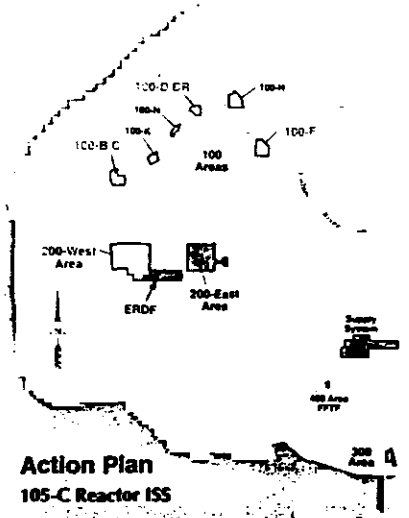
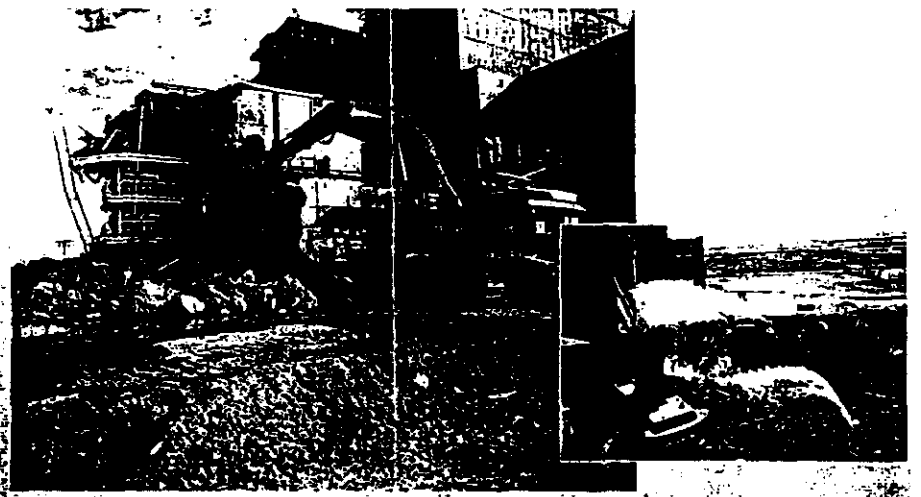
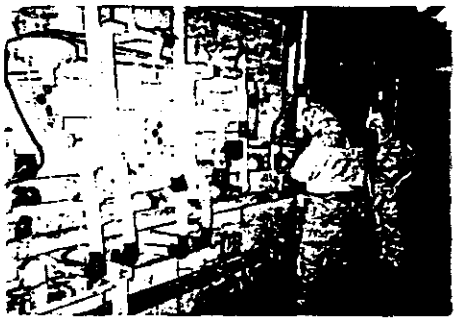
page 2 of 2

Decommissioning Project







Action Plan

105-C Reactor ISS

▶ Complete Interim Safe Storage of 105-C Reactor

ISS work was completed on September 29, 1998

Accomplishments:

Completed demolition of North East/South East Reactor, Outer Rod Room Above Grade, North East Sample Room

Completed all Asbestos Abatement; all equipment and material removed

Completed demolition of the Fuel Storage Basin

Removed transfer pit monoliths

Safety Analysis Plan (SAP); Rev. 0 approved by regulators

Completed the SSE Roofing Design and Construction

Provided S&M Plan to the regulators

Completed 20 Technology Demonstrations

Demobilization completed

105-F /105-DR Reactor ISS

▶ All FY98 work was accelerated from FY00

Prepared FY98 work scope and received approval to implement

Completed TPA Milestones, "Initiate F & DR Reactor Characterization & Design" (M-93-07 & 13) and "Initiate F Reactor ISS Field Activities" (M-93-09)

Submitted and received DOE & regulator approval for all engineering authorization documents (ASA/FHC, EE/CA, BARCT, and RAW). Additionally received approval of the Phase I DQO/SAP (FY98 above-grade demolition scope)

Completed mobilization and intiated biological cleanup activities at both reactor sites. Initiated and continue to perform asbestos abatement, HAZMAT removal, liquid pipe check, and selected area loose decontamination activities

Completed formal transfer of the DR ancillary facilities from 8EW/FDNW (Sodium Burn Facility and other) to the ERC

Initiated and completed F and DR Reactors radiological scoping surveys

Completed DR Reactor structural demolition of the miscellaneous storage, electrical switchgear and lunch rooms, and the F Reactor lunch and exhaust fan rooms

Balance of D&D

118-C-4:

▶ Complete Horizontal Rod Cave 118-C-4 safety evaluation

Completed 100% of project scope (characterization)

Issued Final Characterization Report

111-B:

▶ Complete concrete tank characterizations

The characterization was completed and the facility was then transfered to Remedial Actions

108-F Biology Laboratory:

▶ Continue D&D of 108-F Biology Laboratory (through 12/97)

D&D performed through 12/97; further work deferred due to limited funding

233-S Facility

▶ Continue D&D of 233-S Plutonium Concentration Facility

Completed removal of all equipment, asbestos, and inactive conduit from the equipment room, SWP Change Lobby, and Lavatory

EPA approved the 233-S Sampling & Analysis Plan Rev. 0

Completed removal of all electrical components and conduit from the Non-Process Pipe Gallery

Completed Loadout Hood and pipe trench work package

Completed the Project Management Assessment in preparation for the ORR

Completed both contractor and RL ORR

Completed all decommissioning activities in the Non-Process Pipe Gallery and Control Room

Removed all pipe trench cover blocks

Other Completed Work

▶ Continue Historical Building Mitigation Project

Two final drafts entitled "Recommendations for Future Uses" and "Radiological Health and Safety" of Chapter 4 of the Hanford Site Manhattan Project and Cold War Era Historic District Final Treatment Report were issued for agency and public review

A final draft of the Historic American Engineering Record (HAER) documentation of the 105-B Reactor was delivered for review

Walkdowns were conducted on 12 buildings and final Historical Property Inventory Forms (HPIFs) was completed

▶ Continue Canyon Strategy Initiatives

U-Plant crane repair in progress

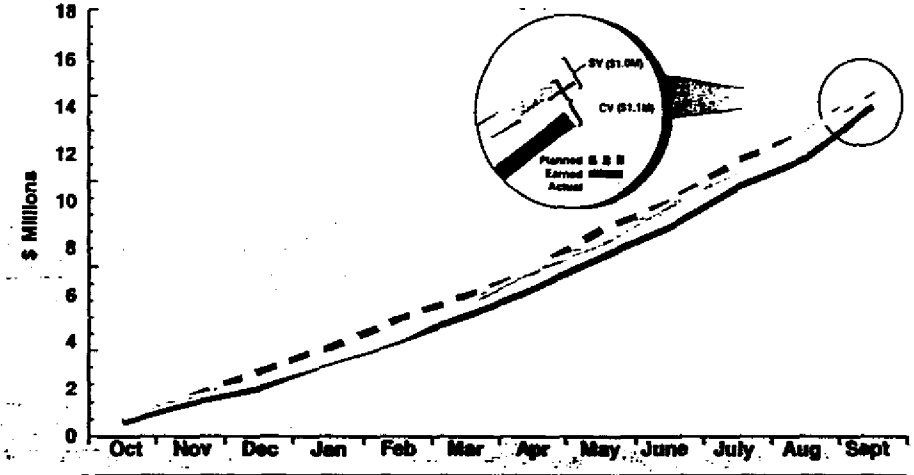
▶ Complete the accepted work under the "Work for Others" Program

400K of Scope was completed

E981003

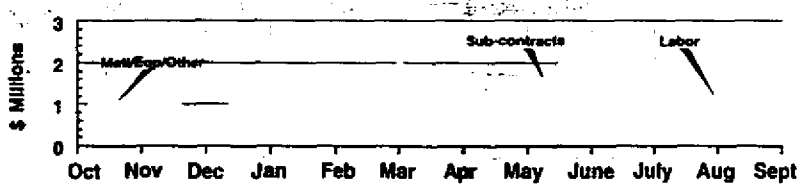
Decommissioning Projects

FY98 Project Performance (Cumulative)



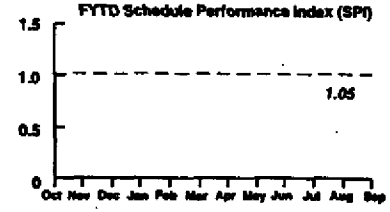
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	0.8	2.3	3.6	5.2	6.9	8.3	8.7	12.2	13.6	16.2	17.8	20.4
BCWP (Earned)	0.8	2.8	2.8	4.3	5.6	7.1	8.7	10.6	12.3	14.7	16.4	19.4
ACWP (Actual)	1.1	2.3	3.2	4.4	5.8	7.8	8.8	11.4	13.7	16.7	17.7	20.5

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	0.9	1.0	0.7	0.7	1.0	1.4	1.0	1.3	1.2	1.1	1.5	1.7	13.5
Matl/Eqp/Other	0.2	0.2	0.0	0.2	0.2	0.2	0.3	0.1	0.3	0.3	0.3	0.7	3.0
Sub-contracts	0.0	0.1	0.1	0.4	0.2	0.4	0.5	0.3	0.8	0.6	0.2	0.4	4.0
Total	1.1	1.3	0.8	1.3	1.4	2.0	1.8	1.7	2.3	2.0	2.0	2.8	20.5

Schedule Performance

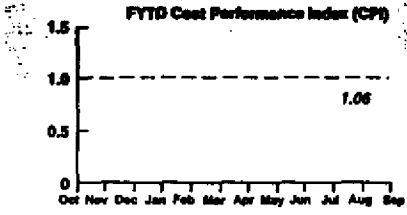


Schedule Variance (SV)

Behind Schedule

- Deferred allowance for contractor settlements at C Reactor ISS
- Late start of DR office trailer septic installation and F/DR TP&L setup
- Delay in DR exterior ductwork removal
- Delay in loadout of F Rx Fan Room
- ORR at 233-S project more extensive than planned

Cost Performance



Cost Variance (CV)

Cost Underruns

- Biological cleanup at F/DR ISS not as extensive as planned
- Use of C Reactor inventory allowed cost avoidance at F/DR ISS

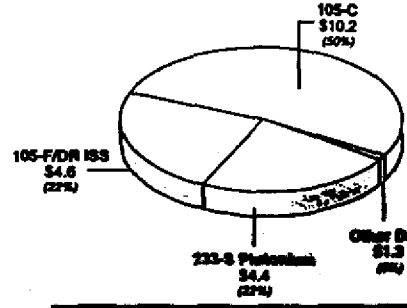
Cost Overruns

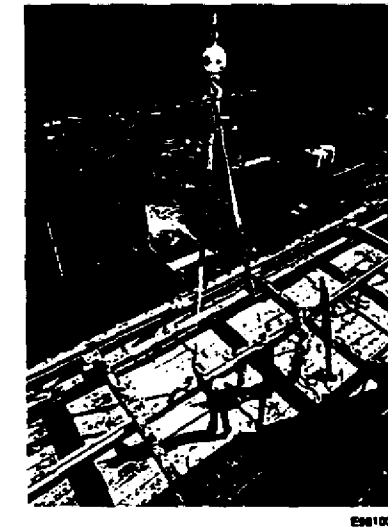
- C Reactor ISS heavy equipment downtime more than allowance
- Delays in de-staffing at C Reactor ISS
- Radioactive surveys and final backfill at C Reactor ISS more extensive than planned
- Overruns in F/DR ISS mobilization

Issues

- A FY99 funding for continuation of F and DR ISS is anticipated to be reduced from $12M to $5M
- Project replanning scenarios are underway. Decommissioning of the 108F Laboratory facility has been placed on management hold until funding issues are resolved

Subproject Actual Costs
(Project Total $20.5 Million)





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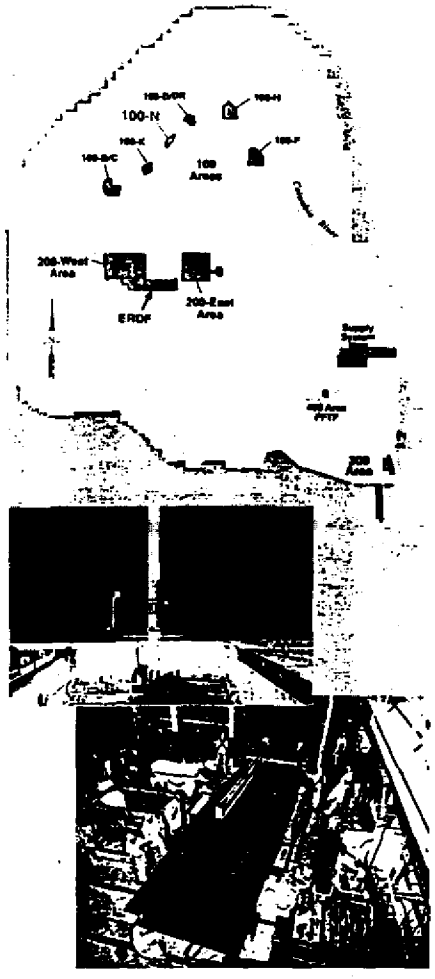
N Area Project



Action Plan

N Area Project (N Basin Cleanout)

The N Reactor Deactivation Project was declared complete on July 23, 1998, one week ahead of the scheduled July 31 date. This action completed Tri-Party Agreement Interim Milestone M-16-01E. Major deactivation work began in 1994 and completed July 1998. Cleanup of the N Basin took over three years to complete, and required over 100,000 radiation zone entries by deactivation personnel. Custody of the affected facilities has been transferred to the ER Surveillance/Maintenance and Transition (SM&T) Project

- Complete removal of High Exposure Rate Hardware (HERH) and Low Dose Rate Hardware

  High Exposure Rate Hardware (HERH) and low dose removal were completed on June 11, 1998. A project total of 33 (HERH) monoliths (14 ton each) and 8,178 cubic feet of low dose debris were removed, packaged, and transported to the Environmental Restoration Disposal Facility (ERDF).

- Complete sediment relocation

  Sediment relocation activities were completed on June 16, 1998. A total of 4,774 cubic feet of sediment was relocated to the north cask pit prior to commencing sediment removal activities

- Initiate/complete transfer of N Basin water to the 200 Area Effluent Treatment Facility (ETF)

  Water draindown activities were completed on July 13, 1998. In conjunction with the Effluent Treatment Facility (ETF), a total of 1,140,000 gallons (228 tankers) were removed from the basin, filtered and transported for further processing/disposal

- Initiate/complete sediment removal and disposal

  Sediment removal activities were completed on July 13, 1998. A total of 28 liners (10 ton each) were slurried, solidified, and shipped to ERDF for disposal. In addition, 350# of fuel fragments were retrieved, packaged, and shipped to the 327 facility for interim storage prior to transfer to the K Basin Facility

- Complete stabilization of N Basin surfaces

  Shielding installation activities were completed on June 13, 1998. Higer than predicted contamination on the surfaces required modifying the methodology for stabilizing the N Basin. Rather than applying fixative to the basin surfaces shield blocks were installed over the entire basin structure (approx. 6000 sq. ft. area). This required the installation of 33 I-beams and 99 concrete panels

- Complete deactivation of N Basin facility

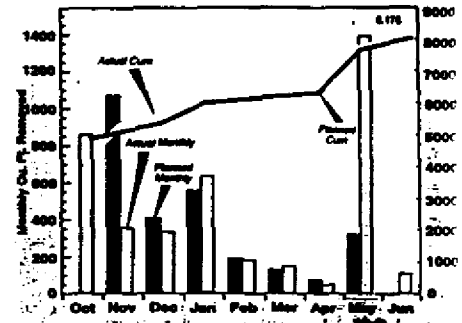
  Walkdowns with SM&T Projects were completed in support of turnover of the N Area deactivated facilities on July 23, 1998

N Area Project (Facility Deactivation)

- Isolate the 107-N tanks, removing remaining water and sediment, and complete deactivation of the 105N, 107N, 151N, 155N, and 1722 facilities

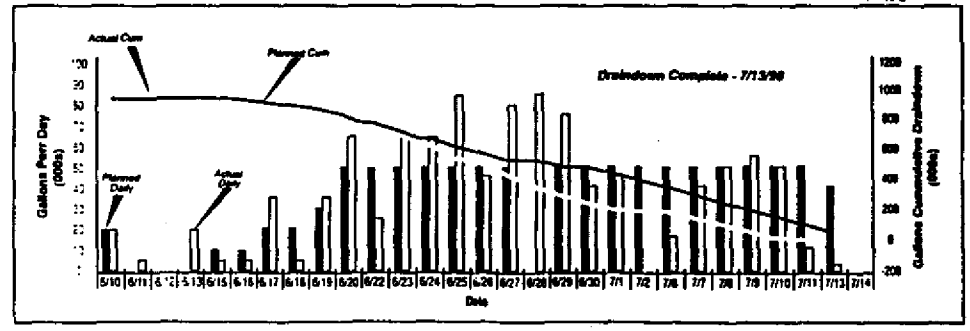
  The 105-N, 107-N, 117-N, 151-N, 153-N, and 1722-N facilities were deactivated and turned over to the SM&T Project organization in accordance with the approved end point criteria for each facility. A total of 86 facilities were deactivated during the N Area Project Deactivation Program

Low Dose Hardware Removal



Monoliths HERH-Loading, Grouting, Transporting

N Area Project Water Draindown Work-Off



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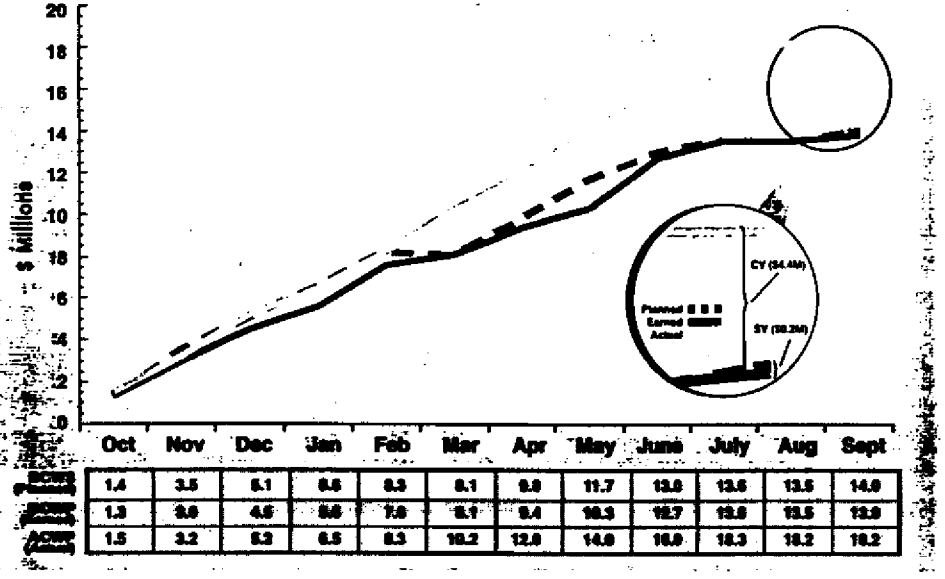
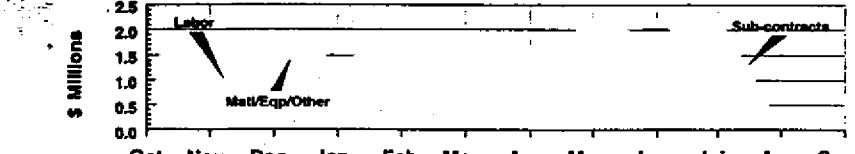
N Area Project

FY98 Project Performance (Cumulative)



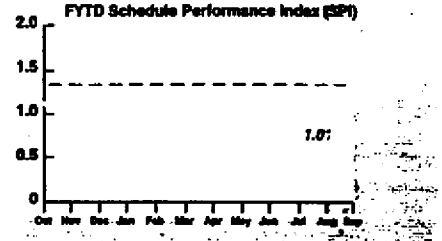
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	1.4	3.5	5.1	6.6	8.3	8.1	9.8	11.7	13.8	13.6	13.5	14.0
BCWP (Earned)	1.3	3.0	4.5	5.0	7.0	8.1	9.4	10.3	12.7	12.8	13.5	13.9
ACWP (Actual)	1.5	3.2	5.3	6.5	8.3	10.2	12.0	14.0	16.0	18.3	18.2	18.2

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	1.0	1.5	1.2	1.0	1.2	1.6	1.3	1.6	1.2	1.2	0.3	(0.1)	12.7
Matl/Eqp/Other	0.1	0.2	0.4	0.4	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.0	2.3
Sub-contracts	0.4	0.1	0.3	0.0	0.3	0.1	0.3	0.4	0.5	0.8	(0.1)	0.1	3.2
Total (EAC)	1.5	1.8	1.9	1.4	1.7	1.9	1.7	2.1	1.9	2.3	0.0	0.0	18.2

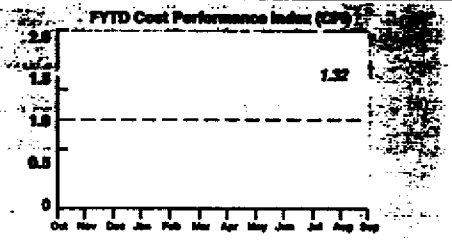
Schedule Performance



Schedule Variance (SV)

- Deferral of allowance for transportation of fuel pieces to K Basins

Cost Performance



Cost Variance (CV)

Cost Underruns

- 107 N Recirculation Facility deactivation completed below cost
- Reversal of FY97 Accrual for sampling

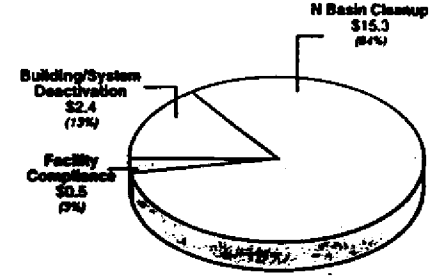
Cost Overruns

- Hardware removal volumes exceeded estimates
- Additional filtration equipment and labor was required to maintain water clarity
- Sediment relocation difficulties resulted in higher than planned costs
- More overtime required than estimated

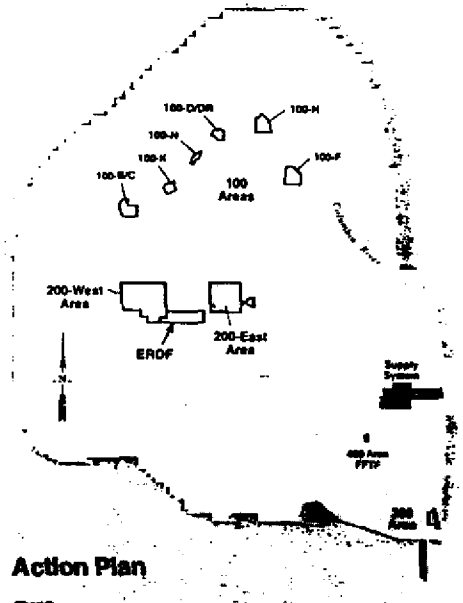
Issues

- Cost association with transfer of fuel from the 327 Facility to K Basins

Subproject Actual Costs
(Project Total $18.2 Million)



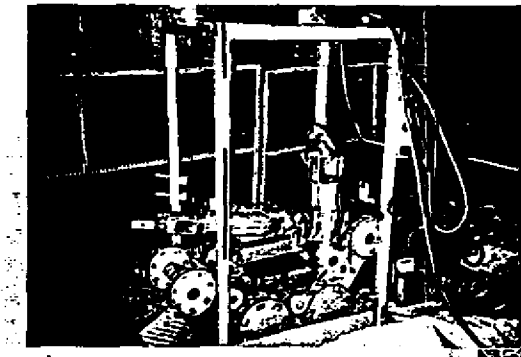
Surveillance/Maintenance and Transition Project

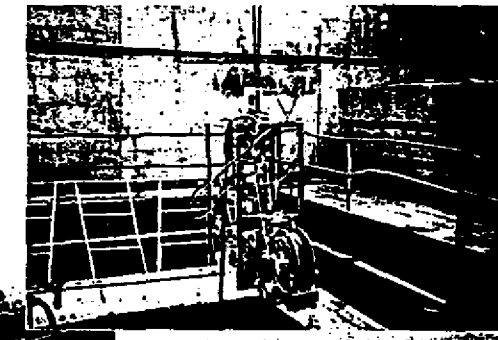


Action Plan

FY98

- Commence S&M of the PUREX complex (~50 buildings)
  - *Completed all surveillances and instrument calibrations at the PUREX complex for FY98*
- Commence S&M of the 308 Building
  - *Completed all S&M activities at the 308 Building for FY98*
- Complete RARA stabilization (B/C Control Area DQO process, railroad cuts at REDOX, glass dump at 108-F, and brine pit at 100-KW, 107-H Basin Restabilization, 100 KE/KW floodplain fencing)
  - *Completed RARA stabilization at REDOX, 107-H Basin, and 108-F glass dump. B/C Control Area DQO process, brine pit at 100-KW and UN-216-W9 stabilizations, and 100 KE/KW floodplain fencing*
- Complete the following 100 Area Risk Assessment corrective actions (163-N acid/caustic line removal, Emergency Dump Tank asbestos removal, 105-KE/KW electrical repairs)
  - *Completed 105 KE/KW electrical repairs,*





163-N acid/caustic line removal, and 1304-N Emergency Dump Tank asbestos removal

- Continue S&M of 100 & 200 Area inactive facilities
  - *Completed all S&M of 100 & 200 Area inactive facilities for FY98*
- Continue RARA surveillance, monitoring and herbicide application activities
  - *Completed all RARA surveillance, monitoring, and herbicide application activities for FY98*
- Continue long-term post-remediation surveillance and monitoring
  - *Completed vegetation monitoring at North Slope and Horn Rapids Landfill for FY98*
- Complete transition of B Plant Complex (~35 buildings)
  - *Supported transition of B Plant Complex (1,716 of 1,772 end points verified). The remaining 56 end points have been transferred to a punchlist to be signed off by March 31, 1999*
- Configuration control at REDOX
  - *Completed updating drawings for REDOX (98) U-Plant (55), and 224-B (11)*
- Complete characterization of 202-S Pu Loadout Hood
  - *Completed draft work instructions, sampling instructions, air sampling assessment and Readiness Assessment Plan, and ventilation flow fix. Samples obtained and sent to laboratory for analysis. Completion of characterization deferred to FY99 (BCP98-178) due to correcting ventilation flow within the hood*

Additional Work Scope

- *Completed field walkdowns of 256 priority sites*
- *Completed transition of the N-Deactivation buildings to the S&M/T Project*
- *Completed ASAs for the reactors, and 241-CX-70, 71, 72 USTs*

- Complete graded SARs for REDOX, U-Plant, 224-B, and 212-N
  - *Completed graded SARs for REDOX, U-Plant, 224-B, and 212-N*
- Commence Chemical Management System Plan
  - *Issued draft IMUST (Inactive Miscellaneous Underground Storage Tanks) strategy plan*
- Complete S&M Program Plan
  - *Issued S&M Program Plan*
- Update Risk Assessment Report
  - *Risk Assessment Report deferred to FY99 (BCP98-211) due to implementing the Pu Loadout Hood ventilation fix*

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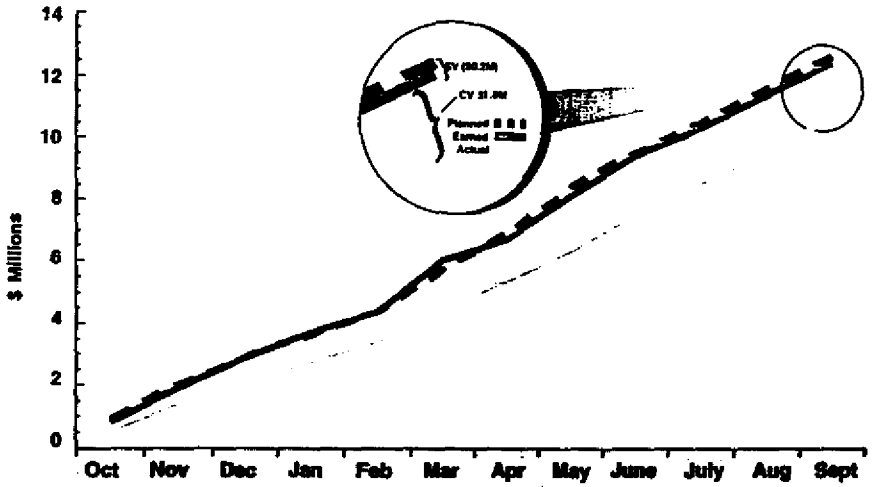
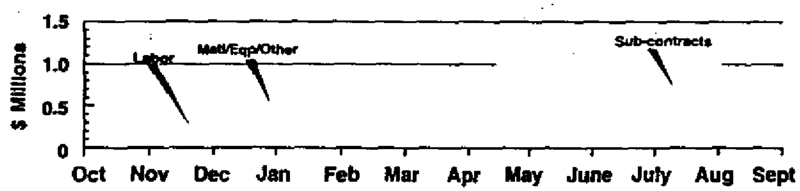
Surveillance/Maintenance and Transition Project

FY98 Project Performance (Cumulative)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	0.9	2.0	2.9	3.6	4.4	5.7	6.9	8.4	9.5	10.5	11.6	12.6
BCWP (Earned)	0.8	1.9	2.9	3.7	4.4	[illegible]	6.7	8.1	[illegible]	[illegible]	11.4	12.4
ACWP (Actual)	0.6	1.5	2.2	2.8	3.5	4.6	5.4	6.4	7.6	8.8	9.6	10.6

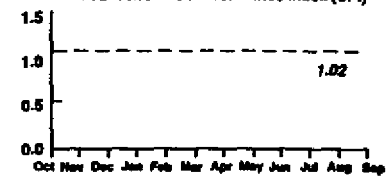
FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	0.4	0.6	0.6	0.5	0.6	0.8	0.6	0.8	0.7	0.6	0.7	0.5	7.4
Matl/Eqp/Other	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.6
Sub-contracts	0.2	0.3	0.0	0.0	0.2	0.3	0.2	0.1	0.4	0.4	0.2	0.3	2.6
Total	0.6	0.9	0.7	0.6	0.8	1.1	0.8	1.0	1.2	1.0	1.0	0.9	10.6

Schedule Performance

FYTD Schedule Performance Index (SPI)



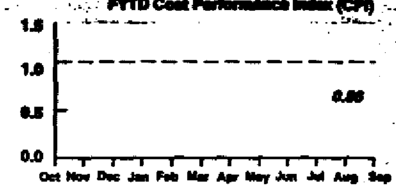
Schedule Variance (SV)

Behind Schedule

- Late completion of waste inventory and RARA caused a delay in Data Quality Objectives (DQO) & Sampling and Analysis Plan (SAP) for 100 Area standing waste
- All sample analysis for Pu Loadout Hood not completed due to funding limitations placed on project

Cost Performance

FYTD Cost Performance Index (CPI)



Cost Variance (CV)

Cost Underruns

- 100 and 300 Areas Field Support for task management and RCT support was less than planned
- Fewer surveillances required (now annual vs. quarterly)
- REDOX roof repair completed with less labor than anticipated
- Graded SAR Resource requirements less than planned

Cost Overruns

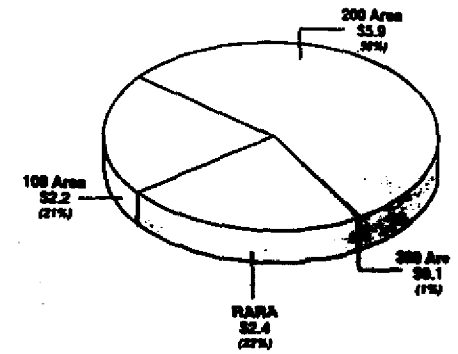
- 200 Area S&M field engineering costs greater than planned
- Waste disposal costs for 221-U and implementation of the ventilation fix at the Pu Loadout Hood greater than planned

Issues

None to report

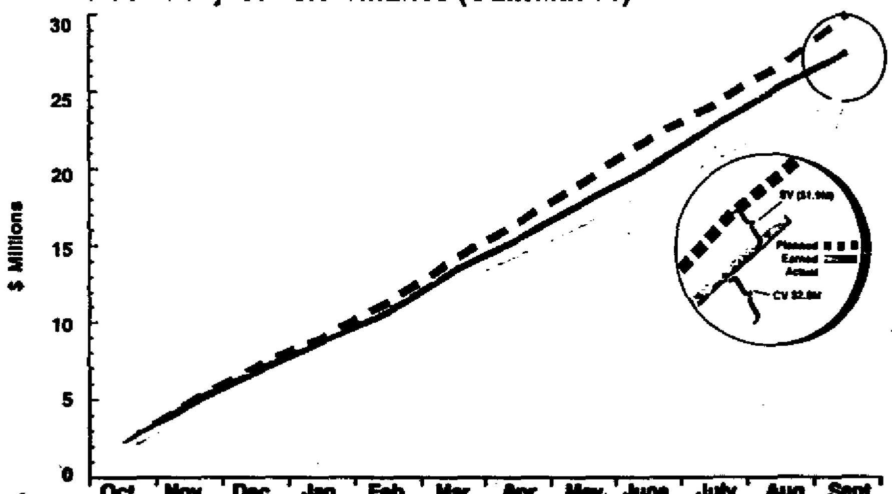
Subproject Actual

(Project Total $10.6 Million)



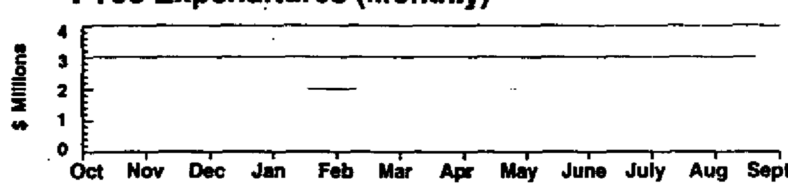
Program Management and Support - ERC

FY98 Project Performance (Cumulative)



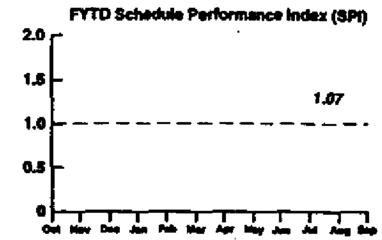
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	2.1	4.8	7.1	9.8	11.4	14.1	*5.3	18.6	21.8	24.0	26.5	29.5
BCWP (Earned)	2.1	4.7	6.8	8.7	10.8	13.3	*5.4	17.8	20.1	22.8	25.4	27.6
ACWP (Actual)	2.0	4.1	6.2	8.3	10.2	12.6	*4.5	16.6	18.7	20.7	23.0	24.8

FY98 Expenditures (Monthly)



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Total
Labor	1.0	1.2	0.8	0.8	0.9	1.2	1.0	1.2	1.0	1.0	1.0	(1.6)	9.5
Matl/Eqp/Other	0.8	0.8	0.7	1.0	0.8	1.1	0.8	0.8	0.7	1.0	1.0	3.1	12.6
Sub-contracts	0.2	0.0	0.5	0.4	0.1	0.1	0.2	0.0	0.6	0.0	0.3	0.3	2.7
Total	2.0	2.0	2.0	2.2	1.8	2.4	2.0	2.0	2.3	2.0	2.3	1.8	24.8

Schedule Performance

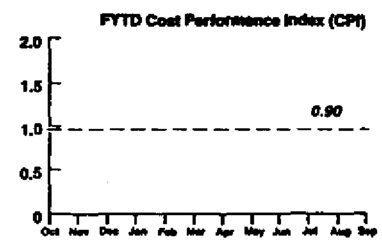


Schedule Variance (SV)

Behind Schedule

- Staff restructuring deferred due to the potential of additional funding to perform ISS work at both F & DR reactors
- Update and implementation of the Air Operating Permit has been delayed until issued by regulatory agencies
- Delays in salmon studies and issuance of subcontracts with Umatillas and Nez Perce due to negotiation of mitigation agreements
- Performance Fee Accruals

Cost Performance



Cost Variance (CV)

Cost Underruns

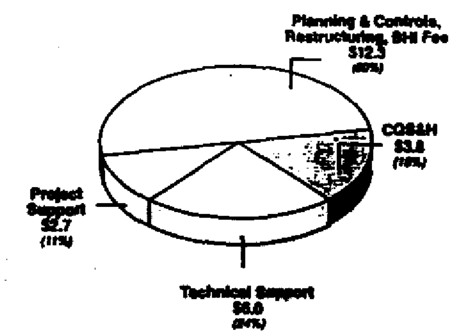
- Labor efficiency savings in Project Technical Support, Procurement, and Document Control
- Project site staffing reductions were accomplished through the streamlining of administrative duties

Issues

- None to report.

Subproject Actual Costs

(Project Total $24.8 Million)



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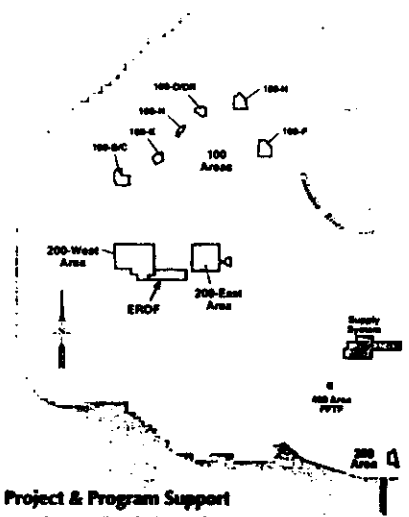
Program Management and Support - ERC



Project & Program Support

- Maintain automated Procurement Tracking System (PTS), small business program, and continue Balanced Scorecard Self-Assessment
  - *Exceeded Small Business goals for the fourth consecutive year. In addition, three 8(a) subcontract specialists were honored by DOE with the "Million Dollar Club Award" for placing over one million dollars with small, disadvantaged businesses in the previous fiscal year*
  - *Met all benchmarking targets contained in the 1996 LMI Report*
  - *Instituted a program for making periodic visits to our local area subcontractors to emphasize the need for safe operations while on site*
  - *Funded 100-D Soil Wash, 300 Area Soil Wash, HR-3 Pump and Treat, 100-N Laboratory equipment excess projects with funds received from the sale of the property, saving the projects approximately $109K*
  - *Achieved $127K savings by awarding a purchase order for ERDF waste transport box liners directly with the manufacturer*
  - *Negotiated a fixed price with incentive fee subcontract for 224-U and U Plant Safety Analysis*
  - *Developed Procurement Balanced Scorecard (BSC) Plan*
  - *Developed agreements (subcontracts) for PHMC enterprise companies*
- Participate in public involvement activities
  - *Co-developed site-wide initiative to coordinate information and public involvement activities related to protecting the Columbia river*
  - *Conducted C Reactor Large-Scale Technology Demonstration Open House.*
  - *Produced 1997 ER Project Annual Report*
- Provide Graphics, Record, and Document Control support
  - *Placed ERC procedures on the Internet to improve efficiency of subcontractors and other customers performing work for ERC*
  - *Requested that RL Records Officer approve ERC's Electronic Document Management System as the official record for ERC, thereby eliminating the retention of hardcopies*
  - *Held information exchange meetings with Planning and Controls and graphic design personnel from the Savannah River Site which focused on developing electronic formats for generating and distributing project information*
  - *Received an Award of Excellence for RCRA poster submission to International Technical Art Competition*
  - *Provided timely support for ~700 "Downwinder" requests*
  - *Initiated WEB page access to drawing and change document information*

Compliance, Quality, Safety & Health

- Maintain ERC Quality, Safety and Health Program
  - *Submitted an Integrated Environmental Safety & Health Management System Description (ESMD) document to AME in preparation for validating ERC Integrated Environmental Safety & Health Management (ESM) system in FY99*
  - *Performed an independent assessment of ERC's Conduct of Operations. The results of this Phase I Programmatic Assessment indicate that the ERC Con-Ops program complies with the relevant requirements of DOE Order 5480.19. Areas for improvement and minor programmatic inconsistencies were identified and are being addressed*

Project Technical Support (Engineering & Technology)

- Identify and evaluate technologies, and develop technology proposals to meet priority project technology needs
  - *Coordinated a Decontamination Technology Exchange*
  - *Issued EM-40/50 Partnering Strategy for enhancing Technology Utilization*
  - *Successfully completed assessment of 34 new technologies.*
- Ensure protection of natural and cultural resources, including endangered or threatened species. Integrate ecological/cultural values into project-wide planning
  - *Provided technical expertise to the Natural Resource Trustee Council (NRTC)*
  - *Supported Public Issues Exchange*
  - *Completed Hanford Site Manhattan Project and Cold War Era District Treatment Plan*
  - *Prepared/presented wildlife exposure model*
  - *Completed the decisional draft of the Revegetation Manual Guidance for the Hanford Site*
  - *Worked with Ecology and other stakeholders on ecological risk assessment guideline definition compatible with conditions at the Hanford site*
  - *Awarded subcontract to provide locally derived native seeds and plants for restoration projects to the CTUIR (Umatilla) and Nez Perce*
  - *Provided input to the final Washington State Department of Ecology revised draft MTCA ruling*
  - *Awarded the subcontract to begin preparation of the Historic American Engineering Record (HAER) documentation for B Reactor, with the B Reactor Museum Association (BRMA)*
  - *Supported the Site Groundwater Model Consolidation Task.*
  - *Reviewed the first draft of the Hanford Steelhead Management Plan*
- Provide Sample and Data Management support.
  - *Upgraded the Environmental Data Viewer (EDV) software for World Wide Web Access.*
  - *Updated and published the Hanford Site Atlas.*
  - *Issued the Site Specific Waste Management Instruction*
  - *Obtained Tri-Parties approval, and issued Waste Information Data System (WIDS) procedure for release site tracking. Completed classroom and "hands on" training for Hanford site contractors*
  - *Completed implementation of "on-site" radiological measurement process improvement.*
- Prepare input to over 30 environmental reports required by environmental statutes regulations, and DOE orders including CERCLA/SARA, rad air emissions, RCRA dangerous waste, and environmental permitting
  - *Participated in the DOE Site Contractor/State Agency Task Team on notification requirements*
  - *Issued the Quality Assurance Project Plan for radioactive airborne emissions*
  - *Completed the Annual Dangerous Waste Report*
  - *Prepared Draft State Waste Discharge Permit Application for Storm Water*
  - *Completed the Annual Septic Tank Report*
  - *Developed site-wide PCB strategy*
- Develop and maintain a Nuclear Safety Program for nuclear facilities and activities
  - *Completed development of and issued ERC Systems Engineering Management Plan*
  - *Issued four Engineering Department Project Instructions (EDPIs) and four Engineering Guides that address hazard classification and nuclear safety. These EDPIs and Engineering Guides reflect clarification and consolidation of DOE guidance to the ERC on Nuclear Safety*
- Issue ERC Systems Engineering Management Plan
  - *Completed development of and issued ERC Systems Engineering Management Plan*

Planning & Controls

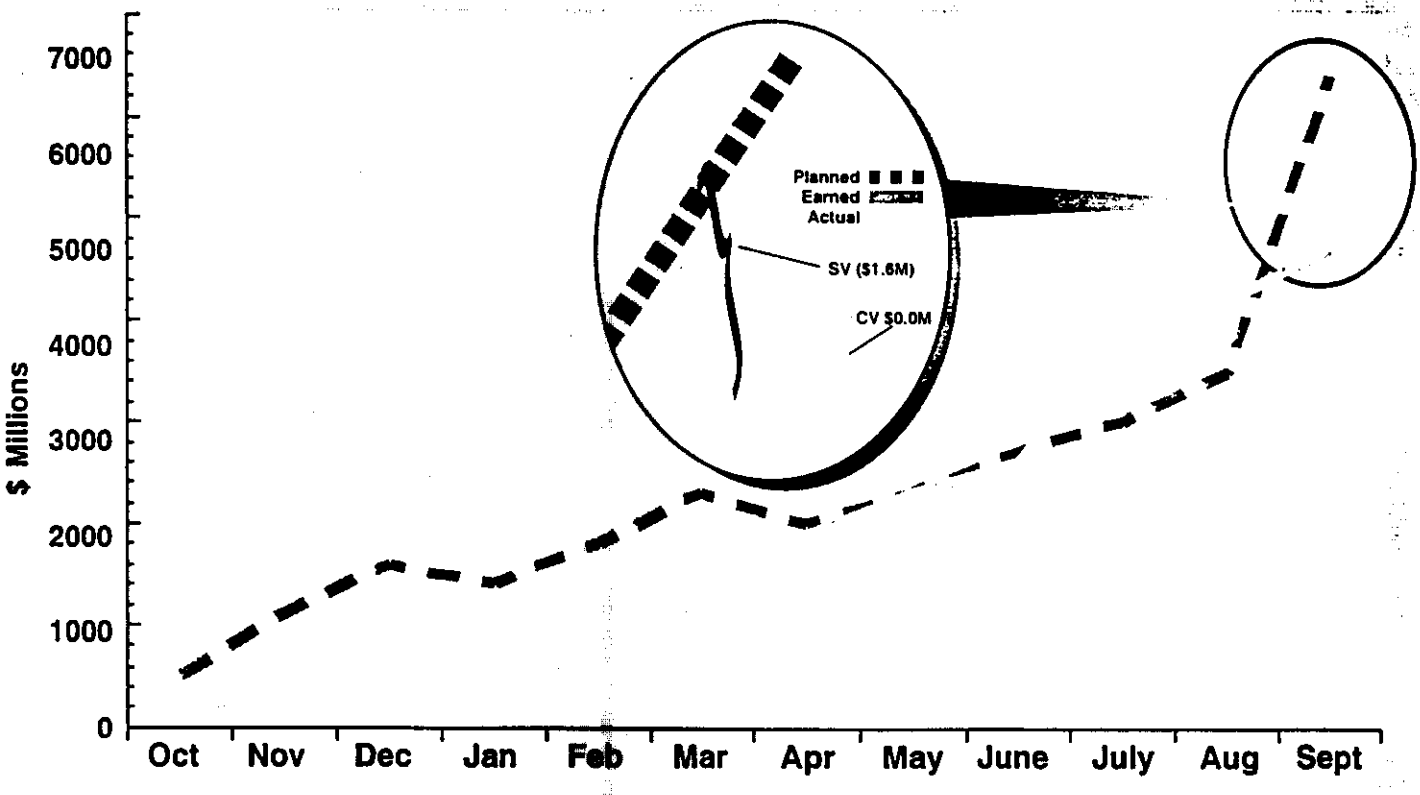
- Support RL Reports and Presentations (Monthly Progress Report, Project Tracking System, TPA Milestone Report, Project Plan)
  - *Completed FY98 requirements*
- Perform project management services (management systems, project controls, reporting, baseline maintenance and scheduling)
  - *Completed FY98 requirements*
- Prepare DWP, LRP, PBSs, and Baseline Update/MYWP
  - *Completed and issued FY99-FY01 Detailed Work Plan (DWP)*
  - *Completed and issued baseline database and Long-Range Plan (LRP)*
  - *Completed various studies and scenarios in support of the final revised IPL submittal*
  - *Updated PBSs to reflect FY98 baseline and LRP updates*
- Funds Tracking and Reporting
  - *Completed FY98 requirements*
- Rate Reviews and Development
  - *Completed four Rate Reviews and implemented new rates for FY98 Budget Baseline*
  - *Developed rates for FY99-01 DWP budget*
  - *Completed FY99 Provisional Rate Review and submitted to RL for approval*
- Provide support to the Hanford Integrated Site Baseline (ISB)
  - *Completed FY98 requirements*

Program Management-RL

RL-Programs

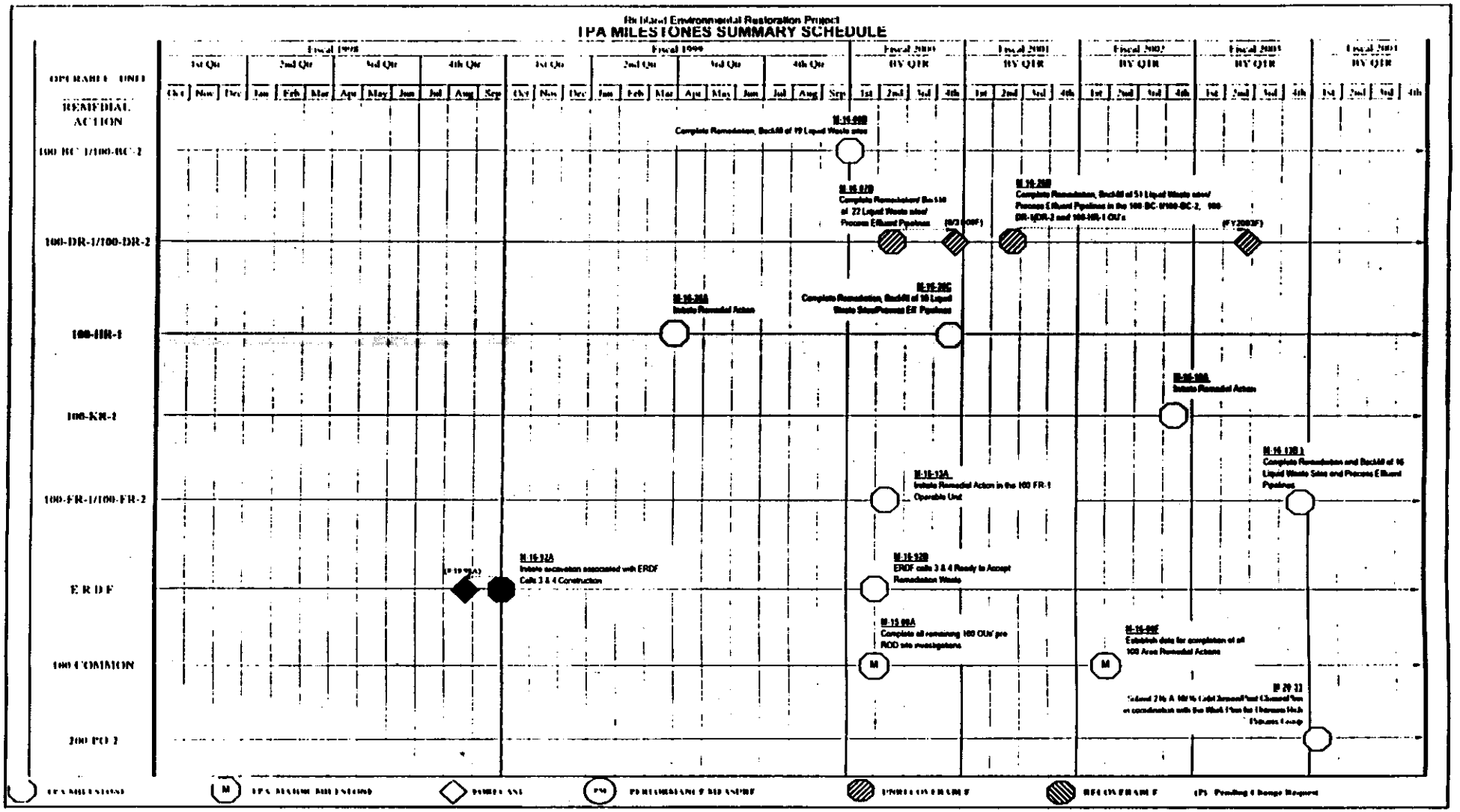
- USACE Direct Support
- HRA EIS
- Ecology Grant (CERCLA)
- Sitewide Assessments
- USFWS Aquatic Resources Study
- BPS Electric
- INS Laundry
- Management Initiatives

FY 1998 Project Performance (Cumulative)

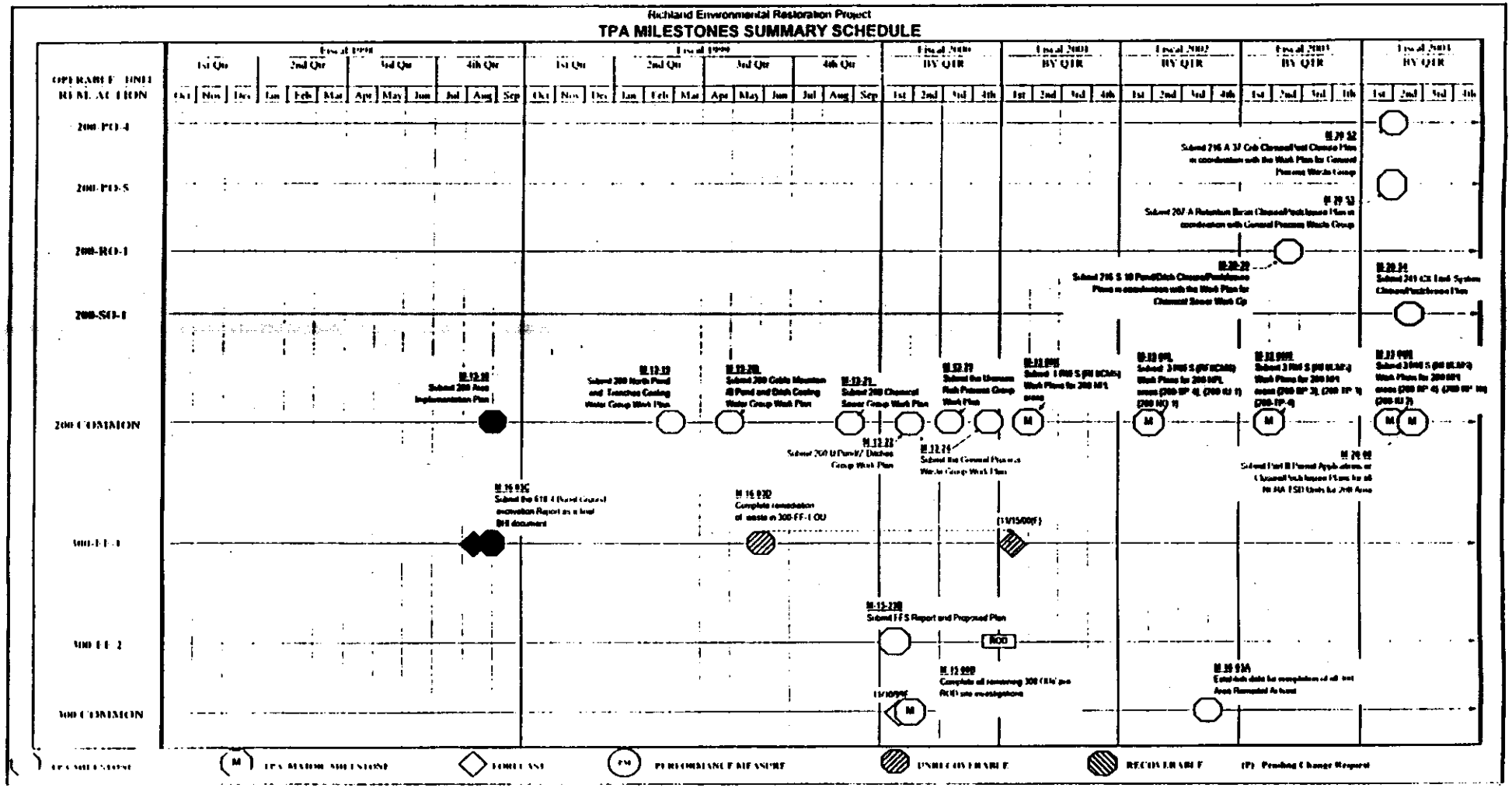


	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
BCWS (Planned)	0.5	1.1	1.6	1.4	1.8	2.3	2.0	2.3	2.7	3.0	3.5	6.3
BCWP (Earned)	0.2	0.3	0.9	1.0	1.2	1.5	1.9	2.3	2.6	3.8	4.2	4.7
ACWP (Actual)	0.2	0.3	0.9	1.0	1.2	1.5	1.9	2.3	2.6	3.8	4.2	4.7

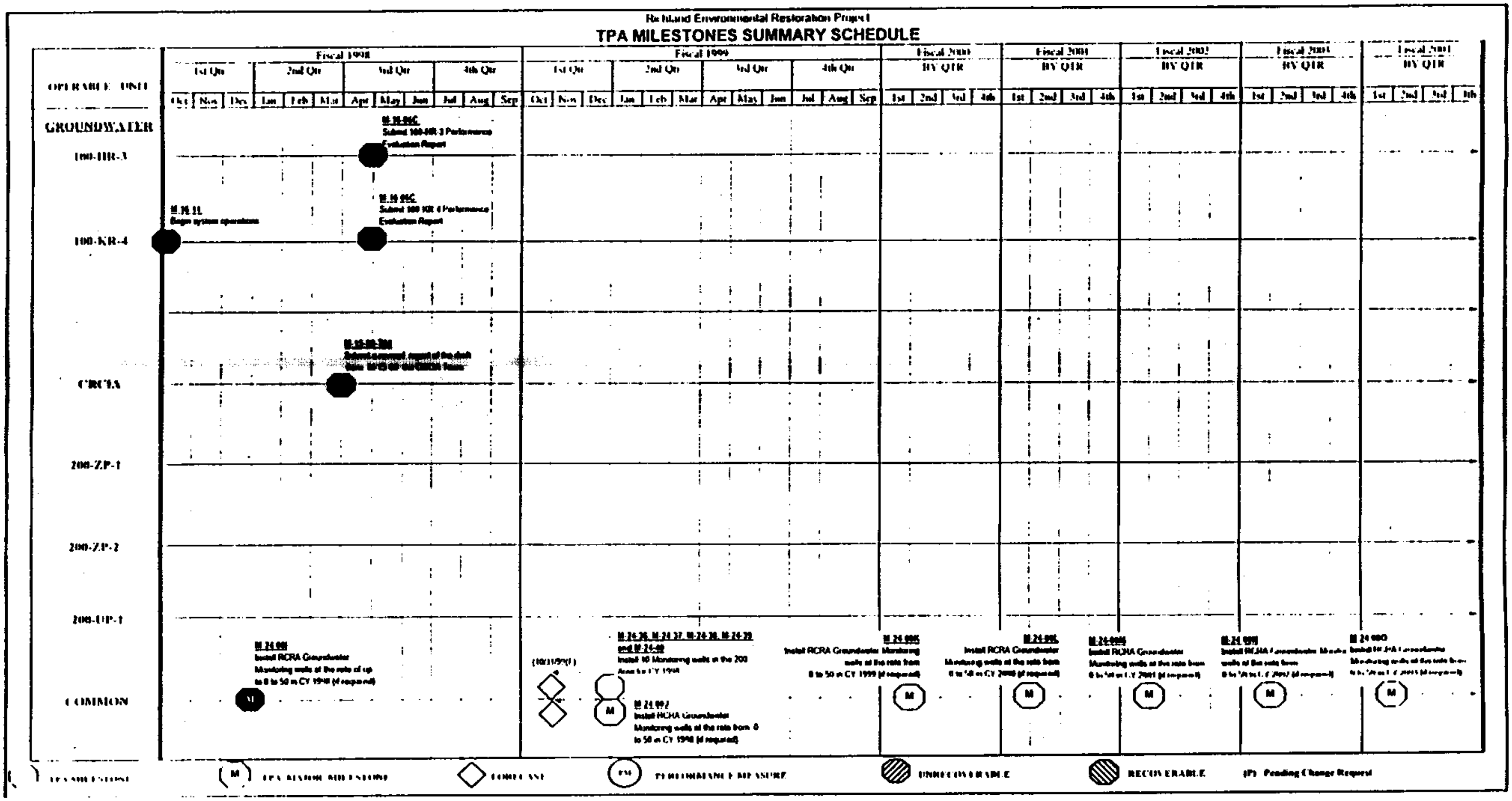
A. PROJECT OVERVIEW



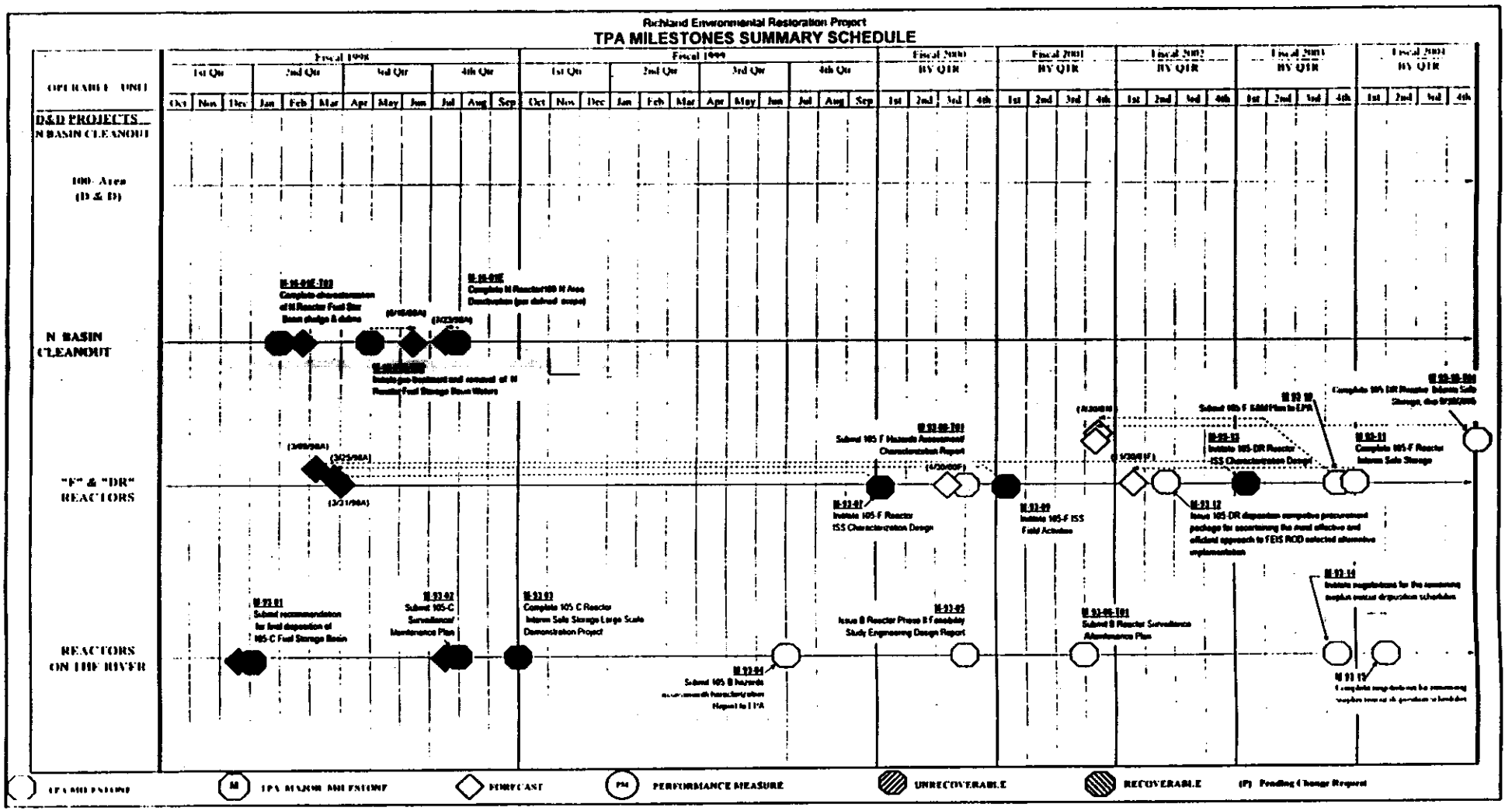
A. PROJECT OVERVIEW



A. PROJECT OVERVIEW



A. PROJECT OVERVIEW



Milestone M-24-00
RCRA Groundwater Wells
November 17, 1998

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS

- Completed drilling and construction of ten M-24-00 J wells at existing RCRA facilities
  - Two at SST T
  - Four at SST TX-TY
  - Two at SST U
  - One at SST B-BX-BY
  - One at U-12 Crib
- Impact of ZP-1 Pump and Treat required re-location of one SST TX-TY well
- Collected planned samples
- Conducted planned geophysical logging

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS

- Installed 35-ft screens in West Area wells
- Completed hydraulic slug tests in seven of the new wells
- Identified tentative locations for 1999 M-24-00 wells
- Completed Site Integrated Groundwater Monitoring Plan

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS (cont)

- Well Decommissioning
  - Three wells decommissioned from Remedial Action and Waste Management Accounts

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS

- Identify wells for M-24-00 for 1999 and obtain Interim Change Control approval
- Coordinate the well installation DQO process with the Groundwater/Vadose Zone Integrated Project
- Complete hydrologic testing in new wells supporting groundwater quality assessment
- Continue discussions with Ecology regarding alternative, technically-based approaches for revised monitoring plans

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS (cont)

- Complete RCRA groundwater quality assessment plans for single shell tanks WMAs B-BX-BY, S-SX, T, and TX-TY
- Integrate groundwater planning with SST RFI Work Plans
- Complete Borehole Data Reports for M-24-00 J wells

BUDGET/COST STATUS

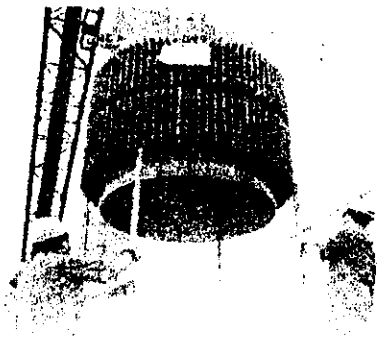
- Well construction - Capital
  - Cost in support of M-24-00 J through October: $955K
  - Capital budget at FY98 start, approximately $2,220K
- Well construction - Expense
  - Cost in support of M-24-00 J through October: $137K

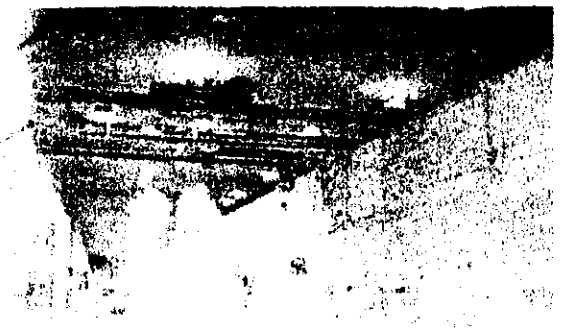
ISSUES

- Replacement wells or alternative monitoring strategy must be considered for 1999 and beyond to maintain RCRA compliance
- Current capital budget for well installation not adequate for future well needs based on current monitoring approaches
- DQO process applied to revised monitoring plans expected to minimize the number of future monitoring wells

Non-TPA Regulatory Issues

- None





B Plant Deactivation Project

Milestone
TPA-M-82

IAMIT Meeting November 17, 1998
Tri-Party Agreement Milestone
Status Report

Ecology Program Manager - S Mohan
DOE-RL Program Manager - DT Evans
FDH Environmental Sponsor - AM Hopkins
FDH Project Director - LJ Olguin

Major Accomplishments
in last three months

M-82-07 Document hazardous substances/dangerous waste remaining within B Plant
- The milestone date was renegotiated.
- Document was submitted to Ecology.

M-82-09 Complete decoupling WESF from B Plant
- The Low Level Waste project was completed. The closure plan was negotiated with Ecology to clean up the Tank 100 vault for continued non-RCRA use
- An alarm system independent of B Plant has been installed
- A WESF facility phone system has been installed.
- WESF has been decoupled from B Plant
- This completes this milestone ahead of schedule.

M-82-10 Complete deactivation of the B Plant Canyon
- Completed cells and canyon deck end points.
- Final actions to close the canyon have been completed.
- This completes this milestone ahead of schedule.

M-82-10-T01 Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation System for S&M Phase (Project W-059)
- Cold/hot testing is complete and the new stack system is operating.
- The 291-B vent system has been shut down and is isolated. WDOH has performed their verification tour.
- This completes this target milestone ahead of schedule.

B Plant deactivation is complete and the building is closed except for quarterly surveillances

Kari McDaniel, HVAC Cog engineer, surveys completed Project W-059

Project Summary -
Excellent

The B Plant Project is a major success story demonstrating what can be achieved when DOE, Contractors and Regulators work together in a partnering relationship to achieve "Breakthrough" projects on accelerated schedules with multi-million dollar cost avoidance.

Program Managers Assessment

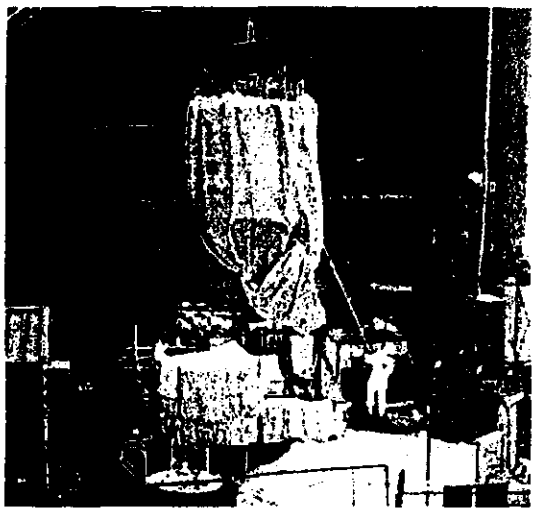
Since last quarterly review

Environmental - Excellent

The overall B Plant Project was completed on September 29, 1998, meeting or completing well in advance all of the associated TPA milestones.

Cost - Excellent

The B Plant/WESF Project delivered the deactivation of B Plant four years ahead of the original planning with approximately $100 million in cost avoidance/savings. The B Plant Surveillance & Maintenance costs are being reduced from approximately $20 million per year in 1995 to approximately $0.8M in FY00.



Safety - Excellent

The safety track record on the B Plant/WESF Project has been excellent, particularly in consideration of the accelerated schedule and high number of man-hours, including overtime, involved with milestone completion.

Schedule - Excellent

In spite of several schedule problems, including the removal of Tank 100 from the WESF Low Level Liquid Waste system, the B Plant project recovered and met the September deactivation completion milestone.

Milestone M-82 Completion Status

M-82-07 Document was submitted to Ecology
M-82-09 100% complete
M-82-10 100% complete
M-82-10-T01 100% complete

Kent Smith overseeing deactivation progress.

Planned Progress Next Six Months

M-82-00
The final documentation will be presented to Ecology for final approval
- Pre-Closure Work Plan
- Surveillance and Maintenance Plan

Baseline Performance and Variance Analysis

FYTD Cost and Schedule Variance for FY '98

	BCWS	BCWP	ACWP	SV	CV
Expense	23507	23370	22086	- 137	1284
Capital	2979	2979	2867	0	112

FYTD Schedule Variance

Expense

The deactivation project was completed on time and the schedule variance is insignificant

Capital

Insignificant

FYTD Cost Variance

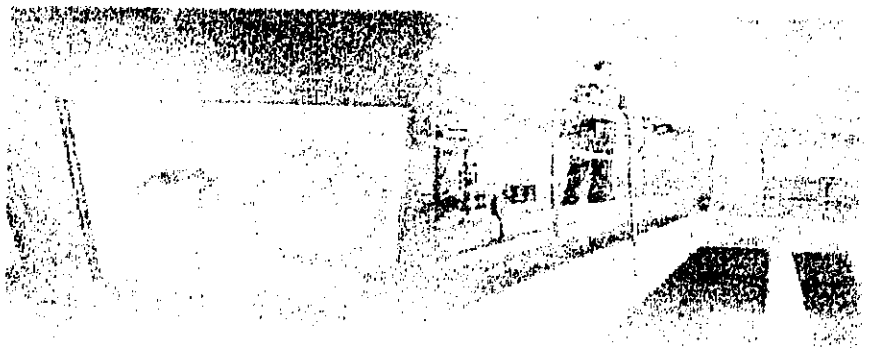
Expense

The cost of performing work in non contaminated areas has been much less than planned. A positive pass back also lowers the cost by approximately $1M.

Capital

Insignificant

Attachment 3



Plutonium Finishing Plant Stabilization Project

Milestone
TPA-M-83

IAMIT Meeting November 17, 1998
Tri-Party Agreement Milestone
Status Report

Ecology Program Manager - S Mohan
DOE-RL Program Manager - LD Romine
FDH Environmental Sponsor - AM Hopkins

TPA-M-83

- TPA-M-83 Overview
- Program Managers Assessment
- Major Accomplishments
- Progress Last 3 Months
- Planned Progress Next 6 Months
- Issues/Concerns

Additional Information

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	S Mohan	736-5704	736-3030
DOE-RL Program Manager	WD Seaborg	372-2889	376-0695
FDH Environmental Sponsor	AM Hopkins	373-5395	376-6112
FDH Program Sponsor	LJ Olguin	372-8233	376-6112
BWHC PFP Project Director	FR Crawford	372-8138	373-4274
BWHC PFP Compliance Officer	JE Bramson	373-1359	373-2752
BWHC PFP Business/Planning	AE Schilling	373-1934	373-4274

MILESTONE OVERVIEW

Milestone	Description	Target Date
M-83-00	Complete stabilization of process areas and other PFP cleanout actions resulting from the EIS ROD, within PFP	TBD
M-83-01	Submit draft Environmental Impact Statement	11/30/95
M-83-01-T01	Issue final Environmental Impact Statement Record of Decision (ROD)	06/30/96
M-83-02	Complete identified interim actions. The currently identified interim actions as listed in the following target activities will be completed. Additional potential interim actions will be evaluated	12/31/98
M-83-02-T01	Submit action plant work schedule for additional interim actions	09/30/95
M-83-02-T02	Complete sludge stabilization	12/31/95
M-83-02-T03	Complete 10-L solution downloading	06/3096
M-83-02-T04	Complete 234-5Z ductwork cleanout	12/31/98
M-83-03	Complete Plutonium Finishing Plant transition phase negotiations	TBD*

*Due date changed to "TBD" by joint EPA and Ecology letter "Suspension of Plutonium Finishing Plant Transition Negotiation Completion Commitment," dated April, 2, 1998.

Milestone Status Summary

- TPA major milestone M-83-00 date TBD (Complete stabilization of process areas, and other PFP cleanout actions resulting from the EIS ROD, within PFP) is current milestone of record. Interim milestones have been changed via signatures on Resolution of Dispute and attached letter and milestone package M-83-97-02 (unsigned) dated May 1, 1997.

- TPA negotiations suspended as of December 11, 1997, letter Ecology to DOE stating uncertainty regarding scope and schedule of deactivation and lack of timeliness in designation of certain items.

- Restart of negotiations pending

Milestone Status Summary

M-83-00 TBD

M-83-01 ~~Cost~~ - **Complete.**

M-83-01-T01 **Complete.**

M-83-02 **Milestone Deleted.**
- Milestone deleted by Ecology/DOE with April 1997 resolution of dispute.

M-83-02-T01 **Complete.**

M-83-02-T02 **Complete.**

M-83-02-T03 **Complete.**

M-83-02-T04 **Milestone Deleted.**
- Cleanout of Ductwork Sections #2 and #3 was completed in FY 1996
- 50 linear feet of HF Ductwork remediated before activity curtailed by PFP FMMR January 1, 1997

M-83-03 **Suspended.**
- Milestone suspended by Ecology/EPA letter dated December 11, 1997.

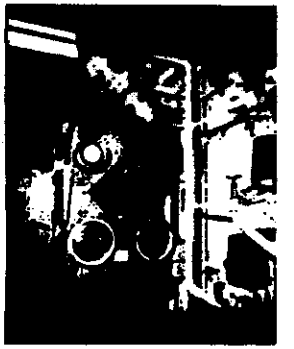
Milestone Progress Report

• Draft PFP Integrated Project Management Plan (IPMP) issued September 1998.

• Department of Ecology Technical Issue Resolution Activities.
  – 241-Z-361 IMUST load testing completed
  – **Solid waste issues are scheduled for corrective action and are being worked**

• Operational Readiness Review for resumption of fissile material movement restriction progressing.
  – Fluor Daniel Hanford ORR closed out November 11, 1998

• "Tiger Teams" established to complete PFP Project re-baseline effort



Planned Progress Next Six Months

• Re-baseline project and issue IPMP and subproject planning documents consistent with new project baseline.

• Resume technical discussions with Ecology/EPA and reach agreement on proposed schedule and scope to restart transition negotiations.

• Issue the Surplus Plutonium Disposition Environmental Impact Statement Record of Decision.

• Complete resolution of technical issues outside TPA discussions in accordance with Ecology letter dated December 11, 1997.
- Solid waste issues closed out
- 241-Z-361 vapor sampling/analysis and sludge sampling Data Quality Objectives (DQO)
- 241-Z TSD interim status technical issues being worked

•Submit PFP Cementation Treatment Unit Part A Permit Application to Ecology and EPA.

Issues

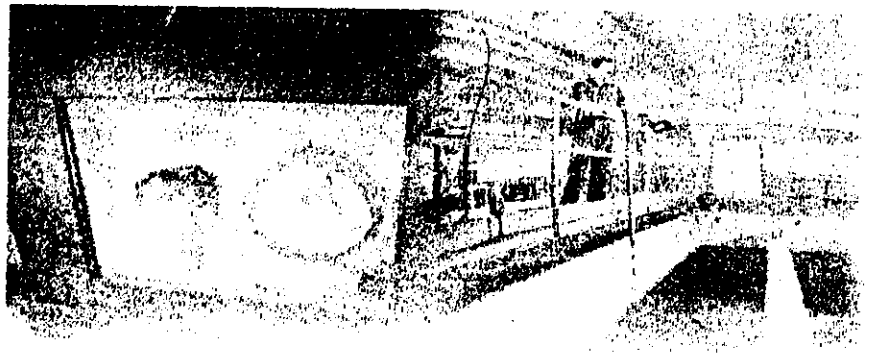
Issue: Scope of the PFP transition negotiations is not clearly defined.
- **Impact** - Negotiations remain suspended until issue resolved.
- **Status/Corrective Actions** - IPMP defining scope of PFP transition activities.

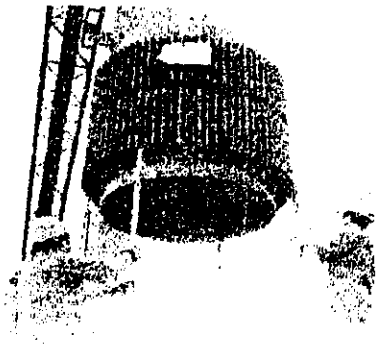
Issue: Schedule of necessary and planned PFP transition work not clearly defined.
- **Impact** - Cannot proceed with negotiations until issue resolved.
- **Status/Corrective Actions** - "Tiger Team" activities to re-baseline project will assist in producing a well-defined project schedule.

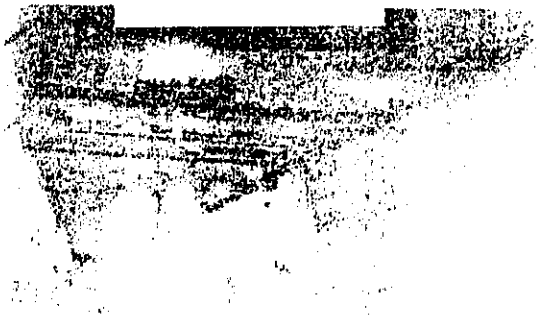
Issue: Timely and definitive waste/material designations and management of wastes and materials accordingly.
- **Impact** - Manner of resolution will affect the scope of the negotiations.
- **Status/Corrective Actions** - Surplus Plutonium Disposition Environmental Impact Statement.

Issue: Resolution of technical issues as discussed previously under Planned Progress.

Attachment 4







300 Area
Stabilization Project

Milestone
TPA-M-89

IAMIT Meeting November 17, 1998
Tri-Party Agreement Milestone
Status Report

Ecology Program Manager - AB Stone
DOE-RL Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

TPA-M-89

- TPA-M-89 Overview
- Program Managers Assessment
- Major Accomplishments
- Progress Last 3 Months
- Planned Progress Next 3 Months
- Baseline Performance and Variance Analysis
- Issues/Concerns

Additional Information

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	AB Stone	736-3018	736-3030
DOE-RL Program Manager	DW Templeton	373-2966	376-9964
DOE-RL Project Engineer	DC Langstaff	376-5580	376-9964
FDH Environmental Sponsor	AM Hopkins	373-5395	376-6112
FDH Program Sponsor	M De Leon	372-1259	376-6112
BWHC 300 Area Project Director	GO Hayner	372-8135	376-9964
BWHC 300 Area Compliance Officer	DE Rasmussen	376-3288	376-1045
BWHC 300 Area Business/Planning	RM Millikin	372-0983	376-9964
BWHC 324/327 Projects Manager	SH Norton	376-9717	376-9964

MILESTONE OVERVIEW

Milestone M-89-00 Interim Milestones and Target Dates

Milestone	Description	Target Date	Status
M-89-00	Complete closure of non-permitted mixed waste units in the 324 Building REC B-Cell, REC D-Cell, and the high-level vault.	10/31/05*	In progress
M-89-01	Complete removal of 324 Building HLV tank MW with the exception of residues that may remain following flushing and draining to the extent possible.	10/31/96	Complete
M-89-01A	DOE will submit to Ecology a report identifying the preferred option for management of liquid MW in the HLV tanks.	3/31/95	Complete
M-89-02	Complete removal of 324 Building REC B-Cell MW and equipment. Any remaining residues following removal actions will be managed through the final closure process.	11/30/00*	In progress
M-89-03	Achieve compliance with interim status facility standards at non-permitted 324 Building MW units.	3/31/95	Complete
M-89-04	Submit to Ecology a report identifying MW management alternatives and DOE's proposal for achieving clean closure of the 324 Building REC B-Cell, D-Cell and HLV.	6/30/95	Complete
M-89-05	Complete 324 Facility SCW assessment in support of 324 closure.	June 1998	Complete
M-20-55	Submit closure plan for non-permitted mixed waste units located in the 324 Building REC B-Cell, REC D-Cell, and HLV.	12/31/95	Complete

*Pending approval of Hanford Federal Facility Agreement and Consent Order Change Control Form, Change Number M-89-98-04, dated October 20, 1998.

Program Managers Assessment

Since last quarterly review

Environmental - *Good*

Currently, major risk reduction activities at 324 Building B-Cell are focusing on removal of processing racks and dispersible materials on the cell floor. 1B Rack size reduction, packaging, and removal from B-Cell was completed and collection of dispersibles under racks 1A and 1B was completed. Final 1B Rack dunnage shipment to the 200 West Burial Grounds was completed on August 31, 1998.

The 324 Building REC/HLV/LLV Closure Plan was approved by Ecology on September 1, 1998.

Safety - *Excellent*

Due to the extreme radiological environment that the bulk of this work is associated with, the work is carefully planned and coordinated with PHMC and DOE safety standards. No safety related issues were identified during this past quarter.

Program Managers Assessment

Since last quarterly review

Cost - *Excellent*

The project has maintained a favorable cost variance. Size reduction of the 1B Rack used less resources and time than planned.

1B Rack size reduction required only:

- Five LLW grout containers rather than the planned nine containers.
- 1B Rack size reduction was completed in 10 weeks, rather than the planned 17 weeks.
- Pass backs received through out the year also contributed to the positive cost variance.

Schedule - *Unsatisfactory*

M-89-02 remains behind schedule pending approval of Hanford Federal Facility Compliance Agreement and Consent Order Change Control form, Change Number M-89-98-04. M-89-02 will be statused two months behind schedule. A catch back schedule has been prepared that documents actions to be completed to be on-schedule by September 30, 1999.

Program Managers Assessment

Since last quarterly review

Project Summary - *Satisfactory*

Progress was made this past quarter to complete 1B Rack size activities, with its associated reduction waste shipments.

1A and 1B Racks dispersibles were collected and packaged into engineered containers.

Resource diversion, airlock access, and 10-ton crane unavailability caused delays in 2A Rack removal, jumper removal and rack size reduction.

The challenge for the next three months will be to complete the studies to allow resolution of how to dispose of the eight legacy grout containers and to perform 1A and 2A Racks work scope as planned in the FY 1999 recovery schedule.

Major Accomplishments

in last three months

M-89-01 **Complete.**

M-89-02

- Completed size reduction of 1B Rack (August).
- Shipped nine grouted containers filled with 1B Rack LLW dunnage (five) and previously grouted LLW (four) to the 200 Area Burial Grounds.
- **Completed 1A and 2A Racks dispersible collection activities.**
- **Completed B-Cell optimization study, which evaluated all in-cell activities and project interfaces for schedule acceleration. Several action are underway**

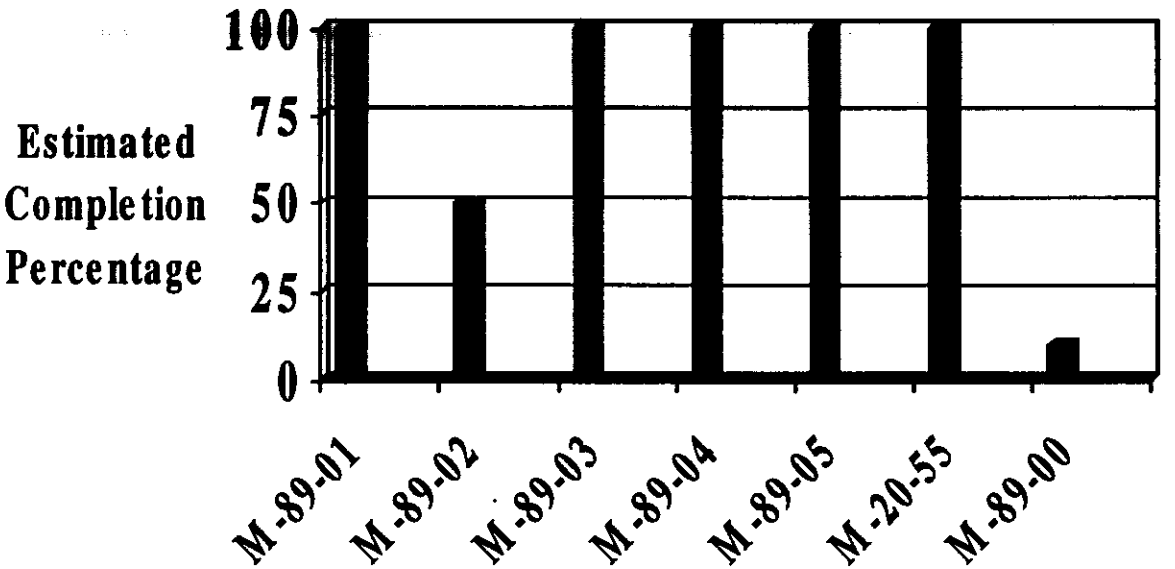
M-89-03 **Complete.**

M-89-04 **Complete.**

M-89-05 **Complete.** Completed June 30, 1998. Ecology comments incorporated. Status: pending Ecology final approval.

M-20-55 **Complete** - The Closure Plan Schedule was approved by Ecology on September 1, 1998.

Milestone M-89 Completion Status



Progress Last Three Months

M-89-02

- 1A and 1B Racks dispersible collection was completed.
- The final 1B Rack LLW grout container was shipped to the 200 Area Burial Grounds.
- In-cell sampling plan for metal 'coupon' was completed and samples were shipped to 222S for analysis. Sampling of the 1A and 2A Racks are schedule for November and December 1998.

M-89-05

- **Completed June 30, 1998. Ecology comments incorporated. Status: pending Ecology final approval.**

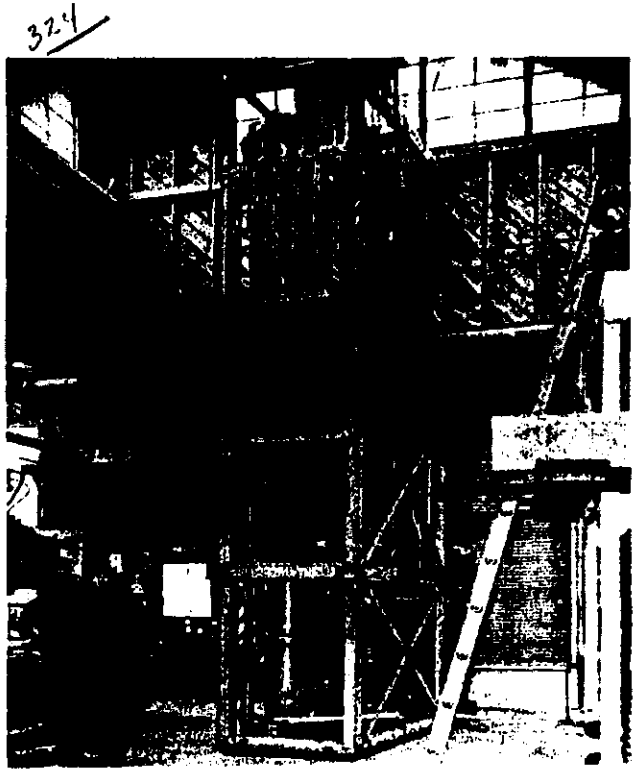
M-20-55

- Ecology approval of this plan was received on September 1, 1998. A due date for completion of closure activities has been established as October 31, 2005, replacing the previous TBD date status of Major Milestone M-89-00.

Planned Progress Next Three Months

M-89-02

- 2A Rack will be removed size reduced, and the associated LLW will be shipped in grout containers to the 200 Area Burial Grounds, and dispersibles under the 2A Rack will be collected in engineered containers.
- 1A Rack size reduction will begin..
- **Continue development of the 22.5 ton cask procurement specification and the 22.5 ton SARP revision.**
- The safety analysis to allow removal of Tank 113 form the 1A Rack and subsequent size reduction will be completed.
- Determination at to the need for a Readiness Assessment or Operational Readiness Review is needed for the PUREX tunnels to receive special-case waste.



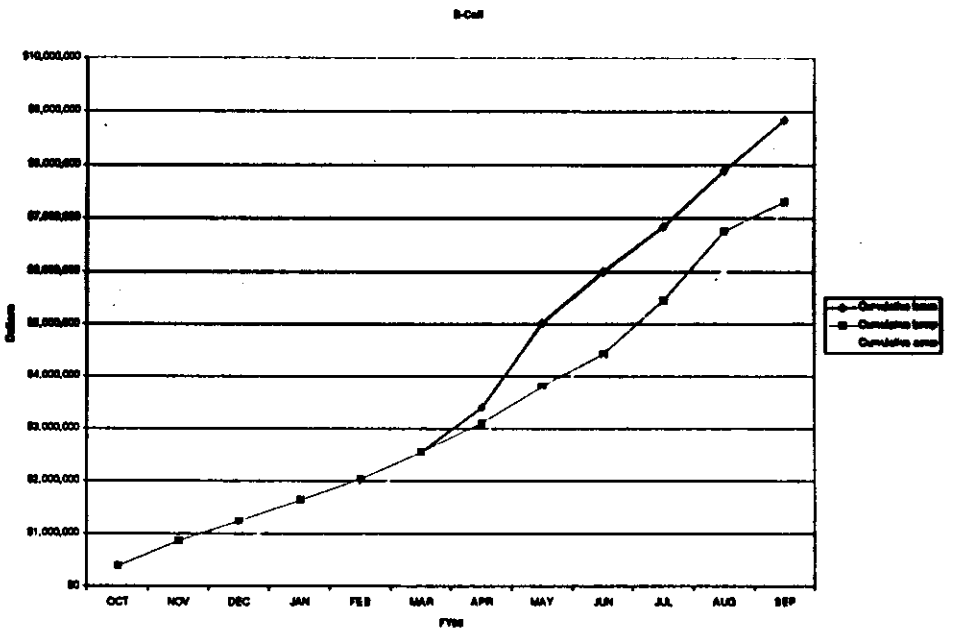
M-89-05 Submitted on schedule

M-20-55 Submitted on Schedule

Baseline Performance and Variance Analysis

FY 1998 Schedule Variance - $1.5M

- **Summary Variance Analysis** - The FYTD schedule variance is a negative <$1.5M>. Disposition of six legacy waste dunnage shipments <$250K> is behind schedule. Delays in starting planning activities associated with the 2A Rack preparation workscope and other B-Cell supporting activities <$960K> are behind schedule. The remaining <290k> is due to schedule slippage of mixed waste and decontamination strategy studies that were held up by B-Cell sampling analysis.
- **Impact - Two month behind baseline schedule**
- **Impact - Delays in 2A Rack removal/size reduction directly impact the B-Cell Project completion date.**
- **Corrective Action - A sampling and analysis plan for cell waste is being implemented to allow shipment of other legacy waste containers.**
  - –development of integrated airlock schedule
  - •work around size reduction of part of 1A Rack.
- **Corrective Action** - A recovery schedule has been updated status on the sampling and analysis plan requested by DOE. to regain the schedule Samples of the 1B Rack are currently being analyzed at the 222S Lab and additional B-Cell samples are planned during November and December time frame. The first set of data analysis is expected November 11, 1998.



FY 1998 Cost Variance - $165K

- **Summary Variance Analysis** - the FYTD positive cost variance due to credit received in the months of March, July, and September for pass backs.
- **Impact** -N/A
- **Corrective Action** - N/A

Issues

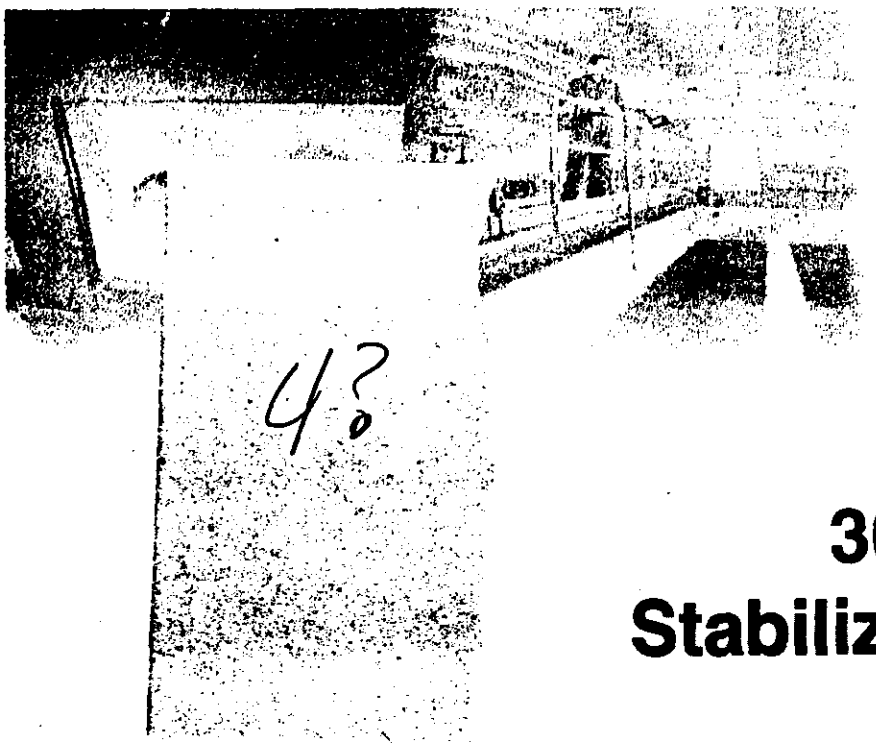
Issue: Two months behind schedule already to the March 31, 1998 project baseline.

- **Impact** - If not recovered, could delay completion of Phase I Closure Activities.
- **Status/Corrective Actions** - Rebaselined schedule activities. Developed airlock integration schedule. Developed catch-back schedule without shifting work into FY2000.

Issue: Six legacy grout containers in B-Cell cannot be shipped to 200 Area Burial Grounds at this time, due to heat loading.

- **Impact** -If grout containers cannot be shipped, eventually that will delay the cleanup of B-Cell.
- **Corrective Action** -Decay heat rate of several containers do not meet current shipping requirements. Additional calculations are needed to either show compliance or to provide a basis for revising the shipping authorizations to allow shipment.

  A sampling and analysis plan has been developed to better characterize the dose/rates of B-Cell equipment. It is anticipated new analysis will provide either the technical justification for declaring the grouted containers within current specifications for RH-LLW, or the basis for deciding to find another solution (size reduce or ship elsewhere).



300 Area Stabilization Project

Milestone TPA-M-92

IAMIT Meeting November 17, 1998
Tri-Party Agreement Milestone
Status Report

Ecology Program Manager - AB Stone
DOE-RL Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

TPA-M-92

- TPA-M-92 Overview
- Program Managers Assessment
- Major Accomplishments
- Progress Last three Months
- Planned Progress Next three Months
- Baseline Performance and Variance Analysis
- Issues/Concerns

Milestone M-92-00 Interim Milestones and Target Dates

Milestone	Description	Target Date	Status
M-92-00	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for the storage, treatment/processing, and disposal of Hanford Site cesium and strontium capsules (Cs/Sr), bulk sodium (Na), and 300 Area special-case waste (SCW).	TBD	TBD
M-92-01	Complete commercial disposition and/or acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for sitewide consolidation, and storage prior to commercial use, or treatment and/or repackaging by DOE TWRS.	Dec. 2009	On schedule
M-92-02	Submit Hanford Site Cs/Sr Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan, Section 11.5.	Sept. 1997	Completed
M-92-03	Submit modified Hanford Site facility Part A Permit Application to Ecology, incorporating all Hanford Site Cs/Sr capsules (300 Area and unencapsulated salts) for which a commercialization contract has not been executed.	Dec. 1997	Completed
M-92-04	Complete transfer of all 300 Area Cs/Sr to WESF and/or an approved storage location.	Dec. 1998	TPA
M-92-05	Inclusion of Hanford Site Cs/Sr "treatment and/or repackaging parameters" in DOE TWRS Phase II Request for Proposals (treatment and/or repackaging of all remaining Cs/Sr).	June 2003	On schedule
MX-92-06T	Complete commercial disposition and/or the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal/disposition of all Hanford Site UU.	Dec. 2000	In progress
MX-92-07T	Submit Hanford Site UU Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan Section 11.5.	Dec. 1997	Completed
MX-92-08T	Submit Hanford Site UU Disposition Assessment Report.	June 1998	Completed
M-92-09	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of Hanford Site sodium.	TBE (by Oct. 1998)	On hold
M-92-10	Submit Hanford Site Sodium Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan Section 11.5.	Oct. 1998	On hold
MX-92-11T	.Complete disposition options for all Hanford non-radioactive sodium.	March 2002	In progress
M-92-12	Complete acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for consolidated storage prior to disposal of Hanford Site 300 Area special-case waste (SCW).	Sept. 2006	On schedule
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	Sept. 2000	On schedule
M-92-14	Complete removal and transfer, and initiate storage of Phase I 300 Area SCW waste and materials. Phase I inventory will consist of, at minimum, one-third the total curie content of all 300 Area SCW.	Sept. 2002	On schedule
M-92-15	Complete removal and transfer, and initiate storage of Phase II 300 Area SCW waste and materials. Phase II inventory will consist of, at minimum, half of the remaining curie content of 300 Area SCW waste and materials.	Sept. 2004	On schedule
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	Sept. 2006	On schedule

Program Managers Assessment

Since last quarterly review

Cost - Satisfactory

Key Milestone M-92 activities are being **completed within budget (PNNL Special-Case Waste Inventory Assessment, Unirradiated Uranium Planning) and some activities are being absorbed into the baseline (preplanning for M-92-13). Negative cost variances have been experienced in association with the cesium overpack** and 327 legacy waste containers. Negative variances have been offset by efficiencies in the overall 300 Area budget.

Safety - Excellent

No negative safety impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special-Case Waste inventory.

Schedule - Excellent

The near-term milestones are being **completed** on and ahead of schedule. M-92-13 through M-92-16 are well ahead of schedule and are projecting early completion.

Environmental - Excellent

No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special- Case Waste inventory.

Program Managers Assessment

Since last quarterly review

Project Summary - Good

The near-term milestones are being **completed** on and ahead of schedule. To date:

- M-92, all activities required to date **have been completed ahead or on schedule. All future milestones are ahead or on schedule.**
- PNNL and BWHC has completed plans that constitutes M-92-14, -16 the bulk of the PMP milestone data collection.
- M-92-14, -16: 240 waste buckets have been loaded into 49 waste drums.
- M-92-14, -16: 236 waste buckets have been shipped to the 200 west Solid Waste Facilities.
- M-92-04 Completed. All cesium material in the 324 Building has been packaged and shipped to the WESF Facility. Closure documentation is expected to be completed during the next reporting period.

Major Accomplishments

in last three months

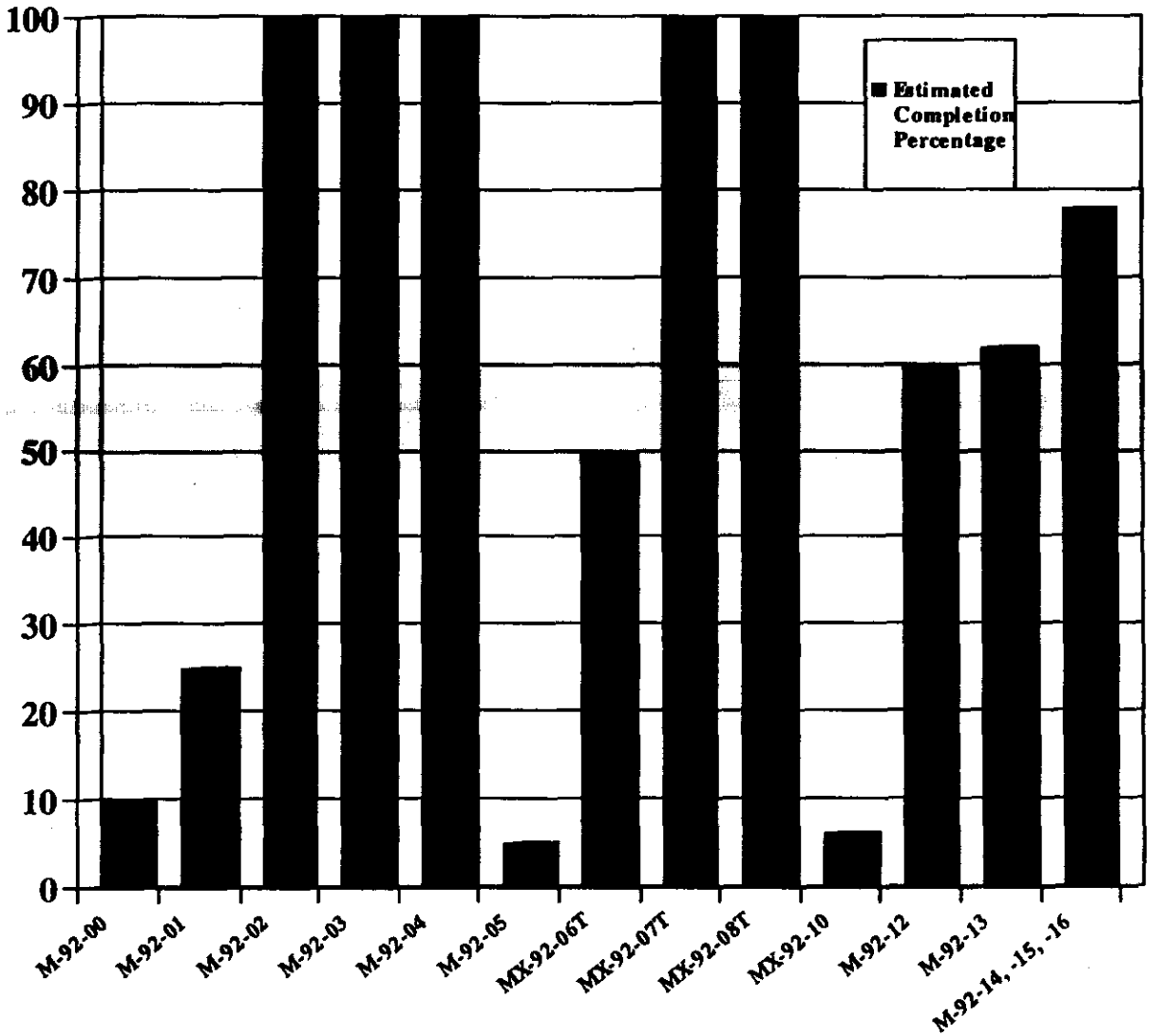
M-92-04 Transfer completed September 28, 1998.

M-92-13 On schedule. MOA in RL concurrence cycle. PMP ahead of schedule.

M-92-14, -15, -16 Ahead of schedule

- **Shipped 103 legacy waste containers from 327 hot cell storage to the 200 West Solid Waste Facility, since last reporting period.**

Milestone M-92 Completion Status



Progress Last Three Months

M-92-01 On schedule.

M-92-04

- Completed activities for the packaging of the remaining 324 cesium powder and pellet inventory, Nordian capsules, and the seven returned WESF capsules.
- Completed shipping cesium material to WESF for interim storage.
- All activities complete pending TPA closeout package.

M-92-12

- Continued administrative activities to allow reopening of the No.2 PUREX tunnel and finalize the path forward for the 324 and 327 Facilities' Special Case Waste, destined for the tunnel.

M-92-13

- Continued coordination efforts with other owners of SCW to ensure an integrated PMP is produced.

M-92-14, -15, -16

- Completed loading of 240 buckets in the 327 Building for storage in the 200 West Area.

Planned Progress Next Three Months

M-92-01 On schedule.

M-92-04 Complete closure documentation.

M-92-12

- Continue administration and physical activities associated with reopening of the PUREX Tunnel #2.

M-92-13

- **Coordinate with PNNL and WMH to move forward with the 300 Area Project Management Plan for Special-Case Waste.**
- **PNNL and BWHC PMP information drafted. Begin integration and internal reviews.**
- Finalize Memorandum of Agreement.
- Finalize Special-Case Waste inventory. The 325 Building has a group of hot cell waste cans that may be proposed as additions to the list and shipments to the tunnel.

M-92-14, -15, -16

- Continue to package legacy waste buckets within the 327 Building hot cells and ship the waste buckets to storage in the 200 Waste Area.

Baseline Performance and Variance Analysis

M-92-01 Summary Milestone

M-92-02 Completed

M-92-03 Completed

M-92-05

- **Small administrative budget; no variance to report.**

M-92-12

- FY 1998 budget ($85K); no variance to report.

M-92-13

- Total budget for M-92-13 ($20K for PNNL efforts). Completing Memorandum of Agreement and coordination with PNNL/WMH/BWHC/FDH through absorbed work scope.

Baseline Performance and Variance Analysis

M-92-04 Budget at Completion - $849.6K

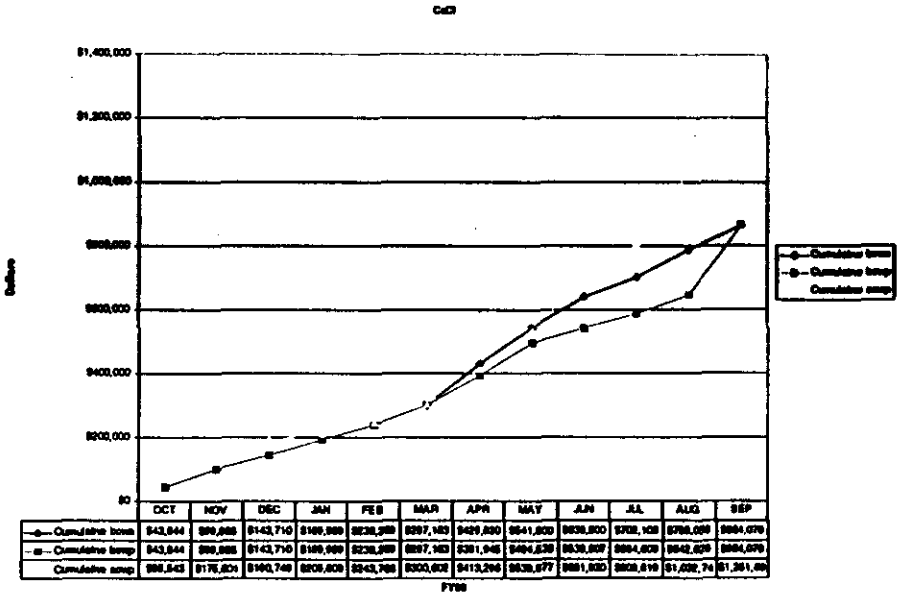
FY 1998 Cost Variance) <$387.2K>

Summary Variance Analysis - Quality Review of of cesium program was completed resulting, additional resources to assure program success.

- **Impact** - Cost variances have been absorbed through efficiencies within the 324/327 overall budget.
- **Corrective Action** - N/A
- **FY 1998 Schedule Variance) <$0K>**

Summary Variance Analysis - Complete FY 1998 work scope on schedule.

- **Impact** - None.
- **Corrective Action** - None.



Issues

M-92-06T

Issues

The baseline for unirradiated uranium was to sell as much of the uranium as possible and declare that material which does not sell as waste and bury it. Efforts to sell the uranium commercially are on hold pending determination by the Secretary of energy.

On September 17th, RL responded to an August 26 Y-12 (Oak Ridge) call letter for return of Low Enriched Uranium (LEU). LEU makes up about 93% of the 300 Area uranium inventory. RL is awaiting response from Y-12.

Impact

Efforts to transfer the 300 Area uranium are on hold pending resolution of the above issues.

Corrective Action

Provide support to the Secretary of energy and Y-12 as requested.

M-92-09,10,11-T01

Issues

On hold pending disposition of Hanford Federal Facility Agreement and consent order change control form, change number M-92-98-01. The change form requests that these milestones be held "in abeyance" pending a decision on the future mission of the FFTF.

Impact

Schedule commitments for M-92-09 and -10 have not been met. Schedule commitments for M-92-11-T01 may not be met.

Baseline Performance and Variance Analysis

M-92-14, -15, -16 Budget at Completion- $1,018K

FY98 activities include only processing 327 hot cell waste containers.

FY 1998 Cost Variance <$323>

- **Summary Variance Analysis** - Additional resources were required for project management, package inspection, and equipment failures.
- **Impact** - Cost variances have been absorbed through efficiencies within the 324/327 overall budget. Twenty additional concrete lined waste containers were purchased.
- **Corrective Action** - N/A

FY 1998 Schedule Variance <$0>

- **Summary Variance Analysis** - FY 1998 workscope was completed on schedule.
- **Impact** - N/A
- **Corrective Action** - N/A.