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

TUESDAY, FEBRUARY 24, 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	T. M. Wintczak	R. A. Holten
	M-15-00	RI/FS Process Completion	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-16-00	Complete Remedial Actions	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-24-00	RCRA Well Installation	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-93-00	Disposition of Surplus Reactors	R. A. Holten	T. M. Wintczak	R. A. Holten
10:30 am	M-80-00	Purex/UO3 Facility Transition	J. E. Mecca	R. W. Bailey (BWHC) L. J. Olguin (FDH)	J. E. Mecca
	M-82-00	B-Plant Transition	J. E. Mecca	R. E. Heineman (BWHC) L. J. Olguin (FDH)	D. T. Evans
	M-89-00	324 Bldg. Closure of MW Units	J. E. Mecca	G. O. Hayner (BWHC) L. J. Olguin (FDH)	D. W. Templeton
	M-92-00	Facilities for Cesium/Strontium, Sodium and Special Case Waste	J. E. Mecca	D. B. Cartmell (BWHC) L. J. Olguin (FDH)	J. E. Mecca

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Richland Environmental Restoration Project

TPA Quarterly Review

Tri-Party Agreement

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

February 24, 1998

E9802055.1

AGENDA

Agenda

Milestone Overview

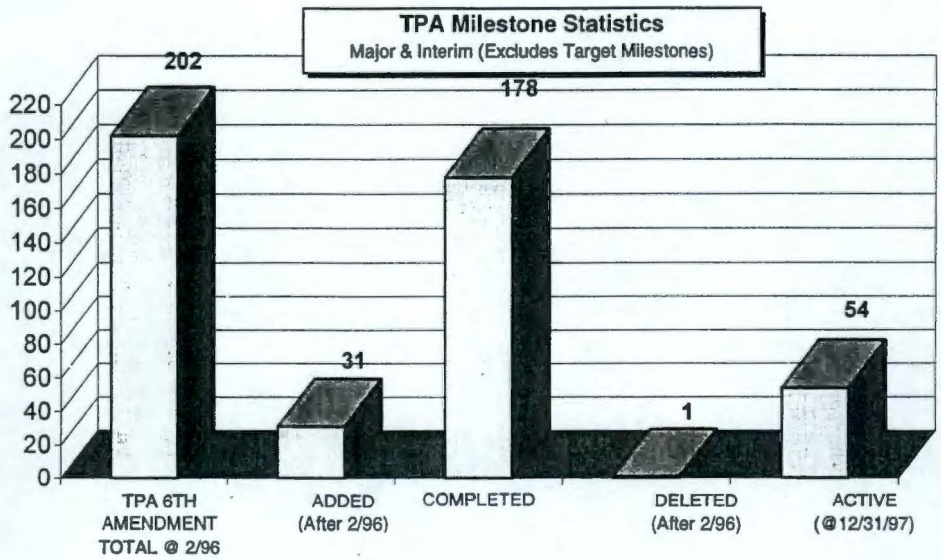
Project Status/Accomplishments/Performance

- Environmental Restoration Overview
- Remedial Action & Waste Disposal Project
- Groundwater Management
- Decontamination and Decommissioning
- Surveillance/Maintenance and Transition Projects
- N Area Project
- Program Management and Support/RL

ER Project Issues

Milestone Schedule

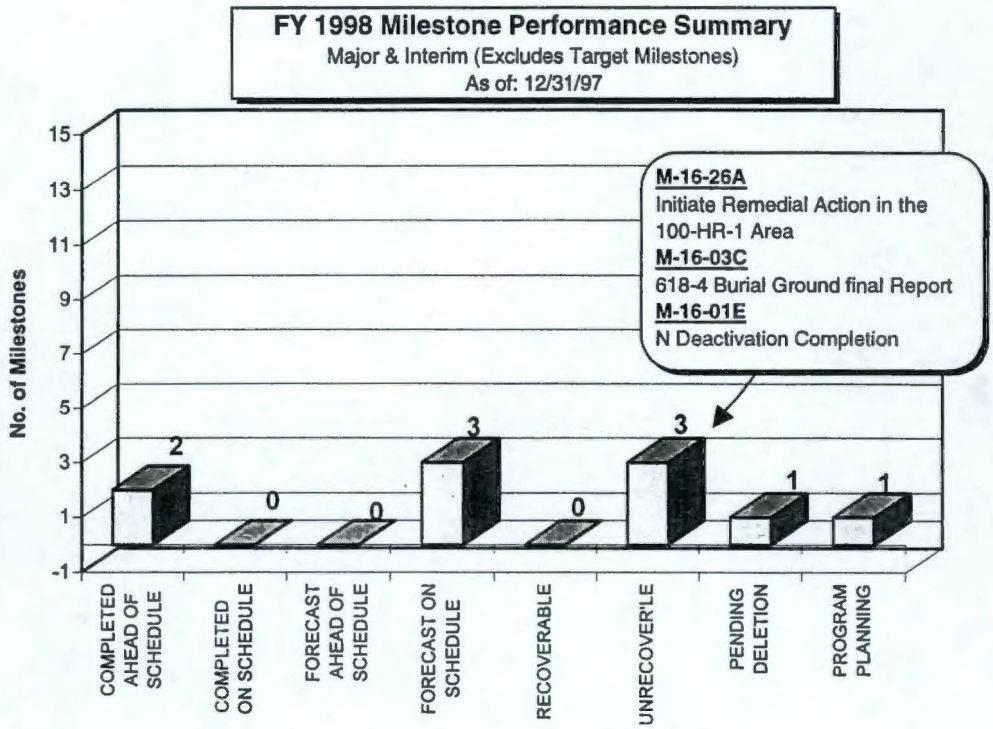
FY 1998 TPA Milestone Overview

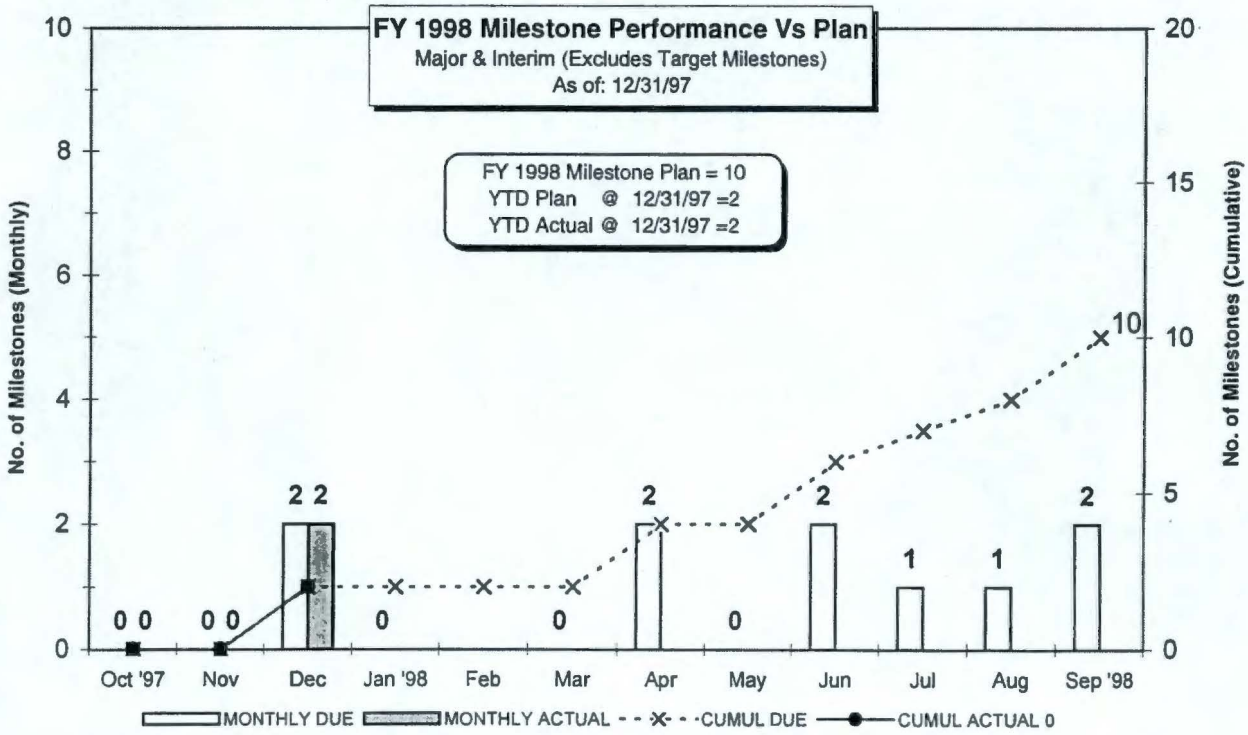


TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Completion Date	Total @2/96	Added After 2/96	Completed @ 12/31/97	Deleted After 2/96	Active @ 12/31/97
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	6/30/2006 (M-13-00Q)	34	0	20	0	14
M-15-00 Site Investigations / Feasibility Studies	12/31/2008 (M-15-00C)	84	2	81	0	5
M-16-00 Remedial Design / Remedial Action	9/30/2018 (M-16-00)	20	15	20	1	14
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/2000 (M-20-00)	13	0	7	0	6
M-24-00 RCRA Groundwater Monitoring	12/31/1999 (M-24-00K)	48	0	46	0	2
M-70-00 ERDF Operational	7/01/96A (M-70-00)	3	0	3	0	0
M-93-00 Reactors on River Final Disposition	TBD (M-93-00)	0	14	1	0	13
TOTAL		202	31	178	1	54

FY 1998 TPA Milestone Performance





FY 1998 TPA Miles ıe Summary
(Excludes Target Milestones)

Item	FY98 Month	Milestone	Description	Due Date	Forecast Actual Date	Completed: Ahead Schedule	Completed: On Schedule	Forecast Ahead Schedule	Forecast On Schedule	Recov-erable	UnRecov-erable	Pending Deletion	Program Planning
	Oct-97	M-16-11	Begin systems operation of 100-KR-4	10/1/1997	9/29/97A	X		(Completed Ahead of Schedule in FY 1997)					
1	Dec-97	M-24-00I	Install RCRA Groundwater Monitoring Wells at the rate of 0 to 50 in CY 1997 (If Required)	12/31/1997	12/30/97F	X							
2		M-93-01	Submit recommendation for final disposition of the 105-C Fuel Storage Basin.	12/31/1997	12/17/97A	X							
3	Apr-98	M-16-01E	Complete N Reactor/100-N Area Deactivation	4/01/98	7/31/98F						X		
4		M-16-06C	Submit the 100-HR-3/100-KR-4 Performance evaluation Report	4/30/1998	4/30/98F				X				
5	Jun-98	*M-13-11	Submit RI/CMS, and Closure/Postclosure Work Plan for 200-PO-2 OU	6/30/1998	(See Below)							X	
6		**M-20-33	Submit 216-A-10 Crib and 216-A-36B Crib Closure/Postclosure Plan in coordination with the Work Plan for 200-PO-2 OU	6/30/1998	**10/31/03F (See Below)								X
7	Jul-98	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 Reactor	7/31/1998	7/31/98F				X				
	Aug-98	[1] M-13-18	Submit 200 Area Implementation Plan	8/31/1998	8/31/98F (See below)								
8		°M-16-03C	Submit the 618-4 Burial Ground excavation Report as the final BHI document	8/31/1998	10/15/98F (See Below)						X		
9	Sep-98	***M-16-26A	Initiate Remedial Action for 100-HR-1 OU	9/30/1998	2/01/99F (See below)						X		
10		M-93-03	Complete 105-C Reactor Interim Safe Storage Large Scale Demonstration Project	9/30/1998	9/30/98F				X				
			TOTAL FY 1998 TPA Milestones			2	0	0	3	0	3	1	1

*M-13-11 is to be deleted upon approval of the 200 Area Strategy and replaced with "**M-13-18" (See August 1998)
**M-20-33 will be deferred to 10/31/2003 upon the approval of the 200 Area Strategy.
***M-16-26A The start of Remedial Action in the 100-HR-1 Area is being impacted by the additional plumes found in the 100-BC-1 Area.
°M-16-03C Remedial Action is being re-planned to 1/15/99 due to additional contamination found outside the the original planned footprint.
[1] M-13-18 Will be added upon approval of the 200 Area Strategy.

This Quarter's TPA Change Requests (October - December)

M-15-97-03
CRCIA
(Appv'd 10/31/97)

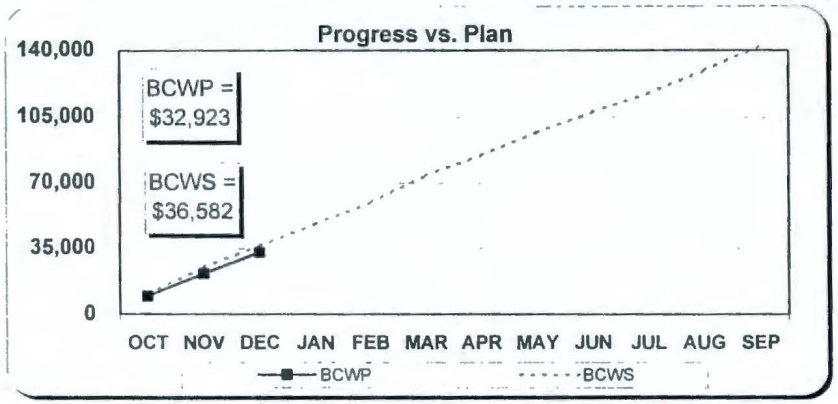
M-15-80-T01 Submit a revised report of the draft from M-15-80 which incorporates responses to comments from the CRCIA Team, technical peer reviewers and the public. Responses are to be based on consensus of the CRCIA Team to the extent practicable; to the extent that comments cannot be reconciled, "minority opinions" will be included. Due Date: **11/30/1997 was changed to 01/31/1998.**

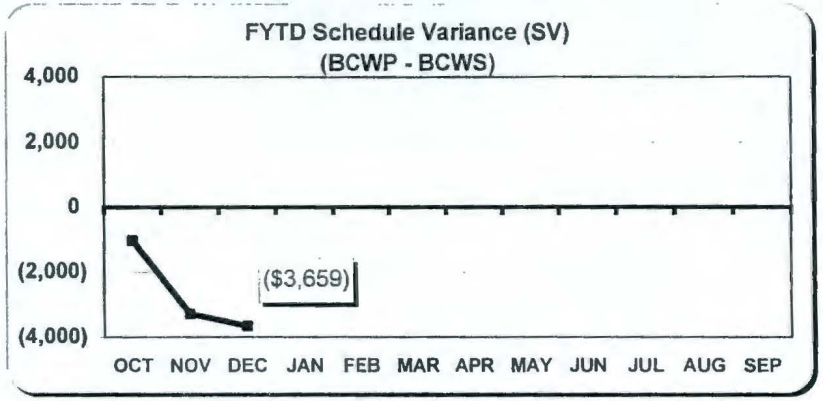
M-16-97-05
N-Basin Cleanup
(Appv'd 11/25/97)

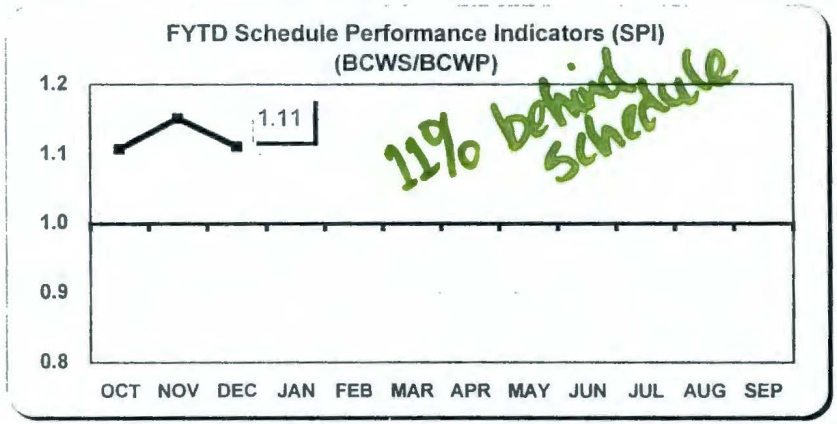
M-16-01E-T02 Initiate pretreatment and removal of all N Reactor fuel storage basin waters pursuant to the N Reactor Deactivation Program Plan. Due Date 10/31/1997 **was changed to 1/31/1998.**

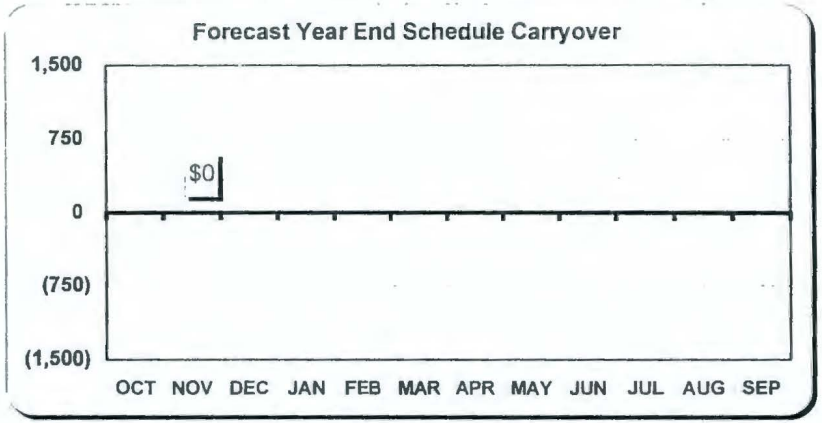
M-16-01E-T03 Complete characterization of N Reactor fuel storage basin sludge and debris. Due Date 10/31/97 **was changed to 1/31/1998.**

SCHEDULE PERFORMANCE ($'s in 000)



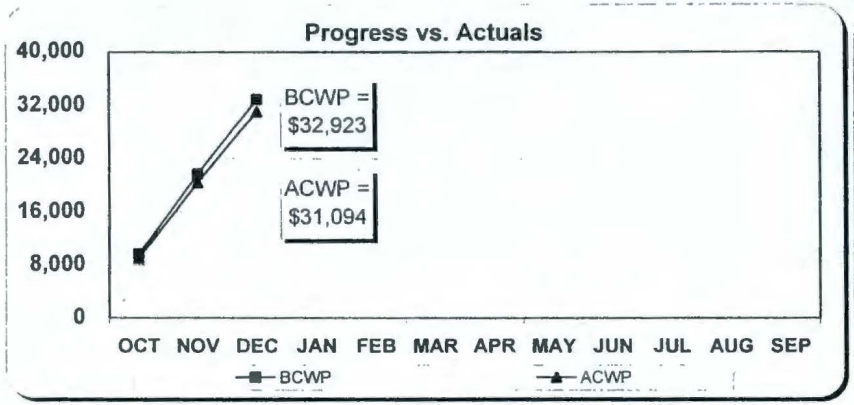


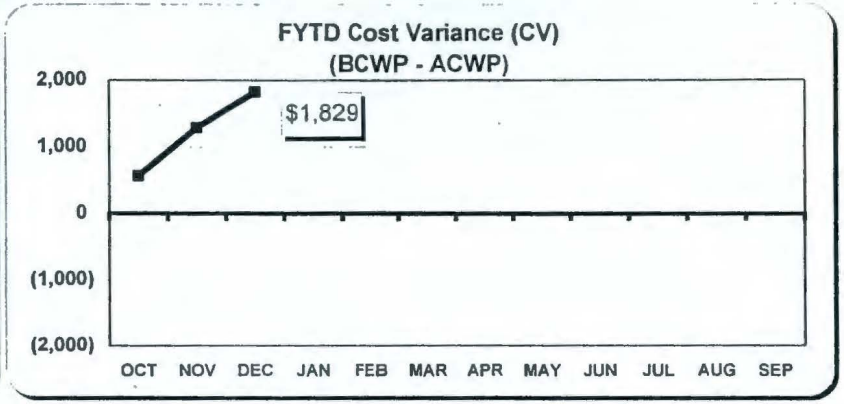


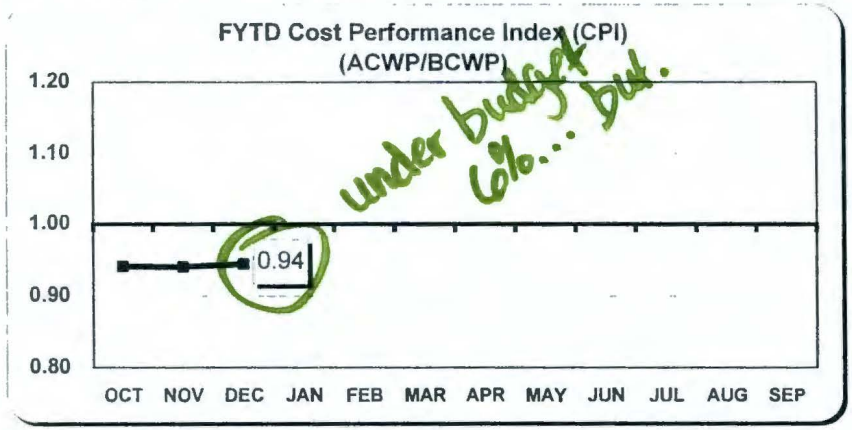


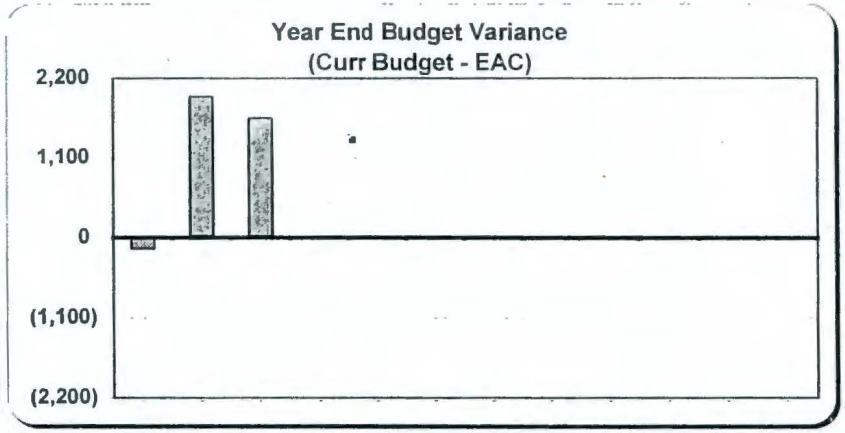
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	10,249	23,981	34,376	44,720	55,365	67,780	78,210	90,780	101,273	110,278	122,334	133,158
CURRENT PERIOD												
BCWS	10,628	14,322	11,631	11,626	11,522	14,258	10,814	12,331	10,691	9,640	12,008	12,644
BCWP	9,598	12,069	11,256									
FISCAL YEAR TO DATE												
BCWS	10,628	24,950	36,582	48,208	59,730	73,989	84,802	97,133	107,824	117,464	129,472	142,116
BCWP	9,598	21,667	32,923									
SV	(1,030)	(3,283)	(3,659)									
SPI	1.11	1.15	1.11									
Year End Schedule Carryover	0	0	0									

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	9,598	12,069	11,256									
ACWP	9,031	11,351	10,713									
FISCAL YEAR TO DATE												
BCWP	9,598	21,667	32,923									
ACWP	9,031	20,382	31,094									
CV	567	1,285	1,829									
CPI	0.94	0.94	0.94									
EAC (Cumulative)	9,031	20,382	31,094	43,596	55,020	69,323	80,866	93,155	103,790	113,790	125,559	140,462
Yr End Budget Var	(150)	1,950	1654									

Overall Status
- Project approximately 10% ahead of schedule (12/31/97)
- Soil remediation in progress at 100-B/C, 100-D Area, and 300 Area

100 B/C Area
- 79,000 tons of soil excavated from B/C Area in first quarter of FY98 (30,000 tons ahead of schedule); 876,000 tons inception-to-date
- B Area Retention Basin rubble removal approximately 12% complete
- C Area Process Effluent Trench excavation approximately 40% complete; Bottom of trench excavated through vadose zone to groundwater for soil characterization

D Area
- 69,000 tons of soil remediated in FY98 (20,000 tons ahead of schedule); 248,000 tons removed inception-to-date
- Excavations in progress at Retention Basin and Sludge Trench
- High concentrations of metals and PCB's found at Sludge Trench
- Draft 100-D Closure Plan completed

300 Area
- Additional waste discovered at 300-FF-1 Process Trench excavation
- Stoppage allowed acceleration of B/C and D Area remediations

100 Area/Group 3/4 Sites
- Draft *100 Area Remedial Design Report/Remedial Action Work Plan* completed
- Draft *Sampling and Analysis Plan* completed
- Remedial design in progress for Group 3 sites (B/C and D Area); field work to commence in May 1998
- Remedial design in progress for Group 4 sites; fieldwork to commence in October, 1998
- Group 4 design packages for 100-H, 100-F, and 100-K liquid waste sites were completed on November 26 (one week ahead of schedule)

200 Area
- *200 Areas Soil Remediation Strategy* signed on October 31; public comment period initiated

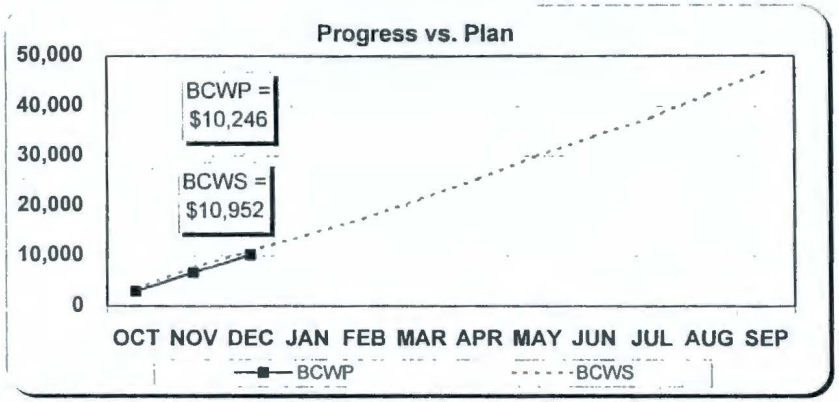
Need Chg. Pkg. Signed (Friday)

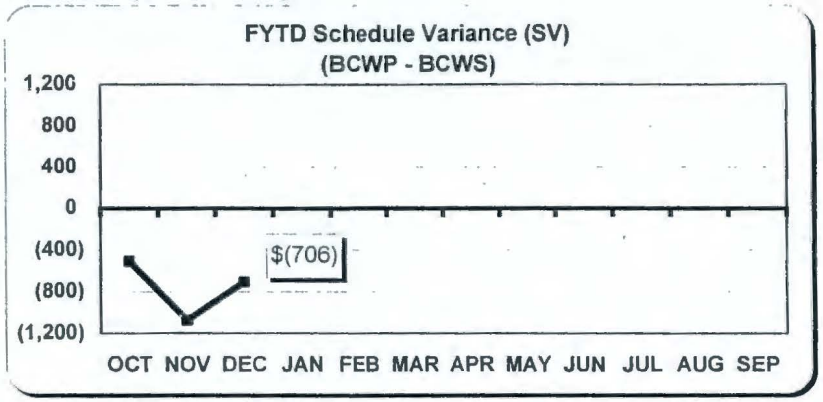
- Workshops held to begin scope definition of *200 Area Implementation Plan*
- 200-CW-1 Operable Unit field characterization drilling contract awarded
- Drilling began at 216-B2-2 ditch on December 17

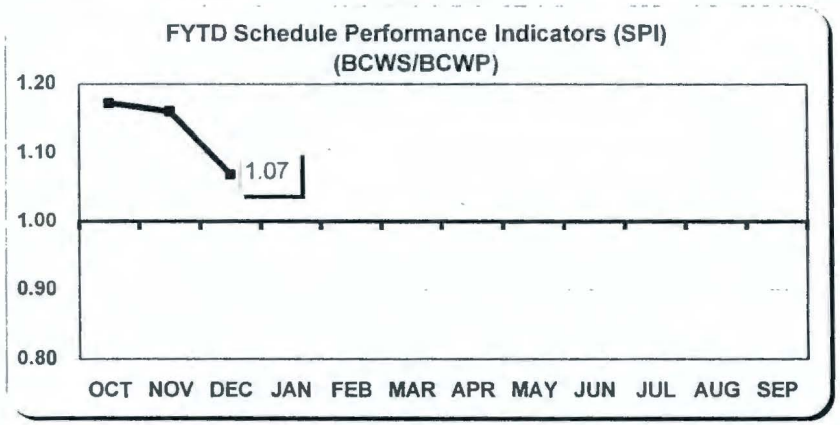
ERDF
Operations:
- Received 158,401 tons of contaminated soil in FY98 (versus 144,008 planned); 691,467 tons since inception (versus 677,074 planned)

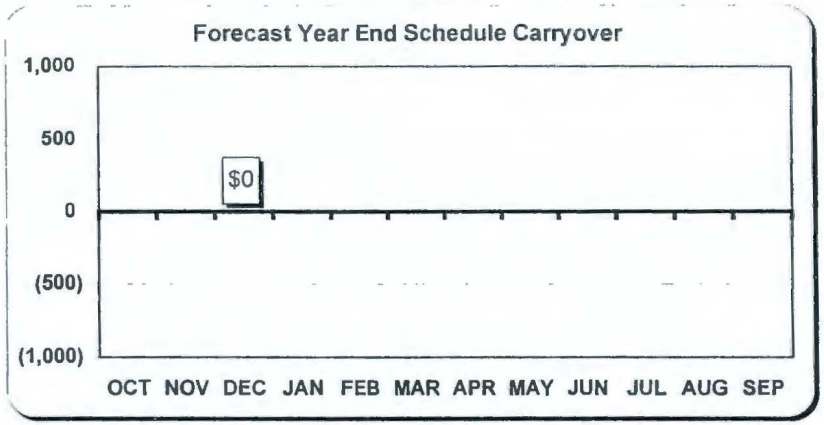
Expansion:
- Request for Proposal for site clearing issued in December
- Bids due in early January
- 60% design review completed

SCHEDULE PERFORMANCE ($'s in 000)







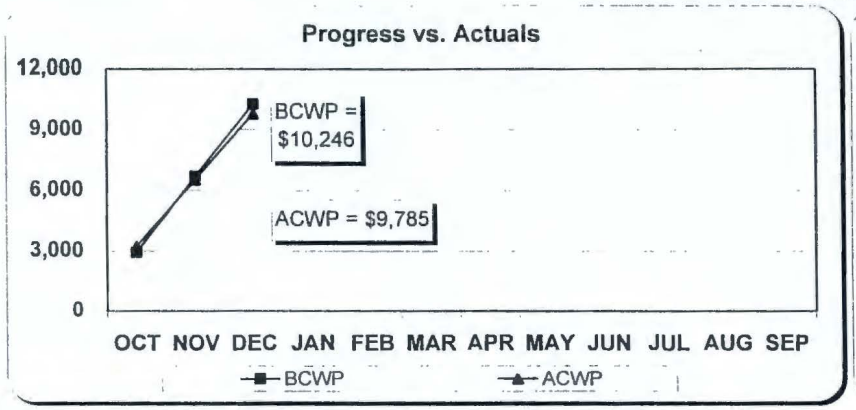


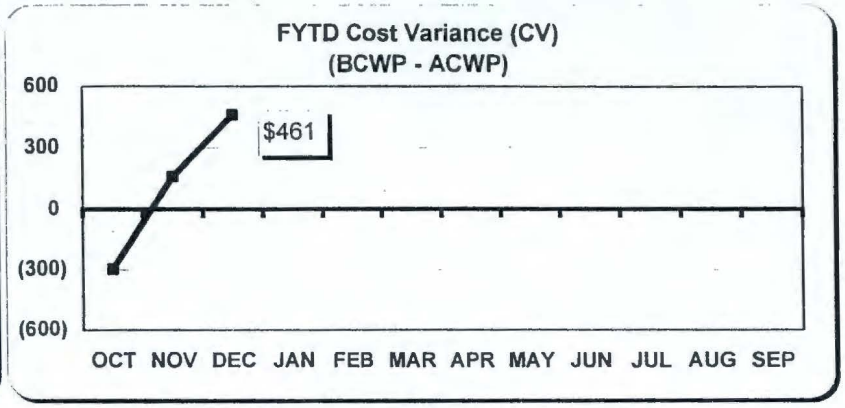
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,018	7,351	10,493	13,584	16,820	20,766	24,842	29,399	33,180	36,688	41,612	46,118
CURRENT PERIOD												
BCWS	3,448	4,313	3,192	3,299	3,251	3,976	4,013	4,490	4,011	3,746	4,698	4,654
BCWP	2,941	3,747	3,559									
FISCAL YEAR TO DATE												
BCWS	3,448	7,760	10,952	14,251	17,502	21,478	25,491	29,981	33,992	37,738	42,436	47,090
BCWP	2,941	6,687	10,246									
SV	(507)	(1,073)	(706)									
SPI	1.17	1.16	1.07									
Year End Schedule Carryover	0	0	0									

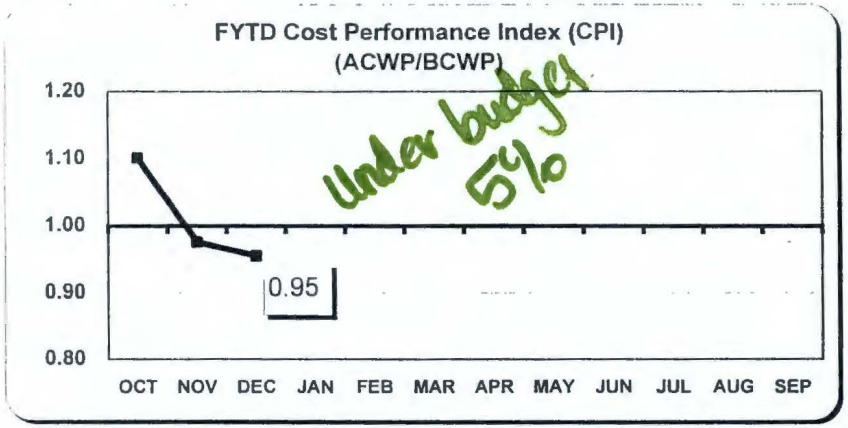
MAJOR SCHEDULE VARIANCES

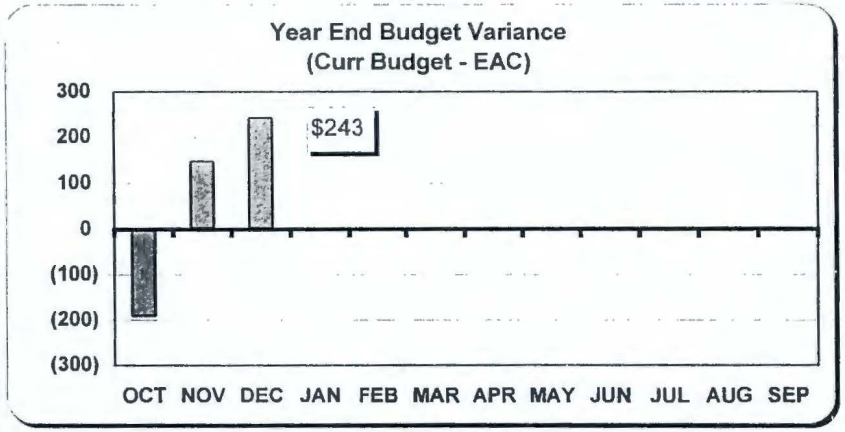
ADS	Desc	VAR	Issue	Impact	Corrective Action
3100	100-DR	($160K)	190-D Chromium Sampling: The LIBS subcontractor is experiencing technical difficulties, with instrumentation causing delays in sampling.	None.	Perform LIBS once technical difficulties are resolved.
	100-DR-1	$317K	100-DR-1 Rem. Near River Liquid Waste Sites: Excavation is ahead of schedule at the 116-DR-9 waste site due to the 300 Area project not shipping material to ERDF and to the reallocation of resources to the 100 Areas.		
3200	200-CW-1	($323K)	Gable Mt./B-Pond: The ($336.8K) schedule variance is associated with the drilling subcontractor not being able to start drilling until December 29. (An 11/13 to 11/28 drilling start date was planned.)	None.	None; the schedule will be recovered in January.
3300	300-FF-1	($379K)	300-FF-1 Remedial Action Sites: Landfill 1D and burial ground 618-4 were put on hold so that Level B worker protection could be implemented.	Level B worker protection will further impact productivity and the schedule.	Prepare a BCP to correctly align the scope with budget and schedule.
3700	ERDF	$175K	ERDF Waste Disposal: The waste disposal volume totals 159K tons, which is 14K tons above the baseline projection of 144K tons for the first quarter. This higher volume reflects lower waste volume from the 300 Area and an increase in volumes from the closer 100 Area sites. Also reflected are the added volumes received due to favorable weather in December.	Disposal activities are ahead of schedule and efficiency is somewhat favorable.	None.
	ERDF	($193K)	ERDF Transportation: ERDF waste transportation ton-miles through December totaled 2,221K ton-miles, compared to a baseline estimate of 2,422 ton-miles. The to-date schedule variance is primarily due to lower ton-miles through December, reflecting less waste handled from the 300 Area which was partially offset by increased hauling from the 100 Areas.	Lower ton-miles result in a negative schedule variance.	Replanning of transportation requirements will be required following rebaselining of the 300 Area remedial actions.

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	2,941	3,747	3,559									
ACWP	3,238	3,289	3,258									
FISCAL YEAR TO DATE												
BCWP	2,941	6,687	10,246									
ACWP	3,238	6,527	9,785									
CV	(297)	161	461									
CPI	1.10	0.98	0.95									
EAC (Cumulative)	3,238	6,527	9,788	13,313	16,563	20,450	24,434	29,025	33,143	36,939	41,654	46,847
Yr End Budget Var	(192)	149	243									

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
3100	100-DR-1	$581K	100-DR-1 Rem. Near River Liquid Sites: Less sampling was required at the 116-D-7 and 116-DR-9 waste sites in October through December than planned; time phasing (planning vs. reality) of subcontractor costs.	Impacts are being evaluated.	Underrun trended.
	100-BC-1	$297K	100-BC-1 Rem. Near River Liquid Sites: An increase in containers has resulted in site completion ahead of schedule and thus experiencing labor savings. 116-B-11 started several months ahead of schedule and is expected to use these savings to cover the increased duration.	Baseline work will be completed earlier than 9/30/98.	Underrun trended.
3300	300-FF-1	($193K)	300-FF-1 Remedial Action Sites: The cost variance reflects taking more time and effort than planned in the landfill 1D and burial ground 618-4 due to Level B personnel protection.	Costs will increase beyond budget and impacts will occur in other landfills.	A BCP will be processed to address the impacts of level B requirements.
3700	ERDF	$236K	ERDF waste disposal underruns reflect lower radiation monitoring labor and lower year to date subcontractor change orders.	A cost underrun and reduced EAC is forecast.	RCT labor revised projections have been trended in the December report, and the EAC revised accordingly.
3700	ERDF	($342K)	ERDF Transportation: The accrual for transportation subcontract costs reflect a double accounting for the November subcontractor payment (360K). Driver labor is running higher than estimated. These increased costs are offset by lower subcontractor change orders and a 50K error correction for an erroneous FY97 equipment usage charge.	A temporary cost variance for this over-accrual will be corrected in January. Higher driver labor costs will result in a sustained labor variance, and are reflected in the trend register.	Driver labor will continue to be reviewed for additional efficiencies. The projected additional cost is offset by underruns in other areas.

Groundwater Project

Overall Status

- Five pump-and-treat units operating
- All units operated with good availability
- No major problems during period

General

- Bechtel Hanford, Inc. assigned responsibility for integration of groundwater and Vadose Zone activities; Integration plan in development
- Number of resign change outs reduced; expected savings approximately $1.5 Million
- New statistical approach for data analysis approved for 300 Area waste management area; significant cost savings in monitoring activities expected

Pump-and-Treat Units

100-HR-3

frozen pipes

- 71,873,000 Liters have been processed for FY98 inception to date – removing 7.4 kg of Chromium.
- 145,109,000 Liters have been processed from inception to date – removed 12 kg of Chromium.

100-KR-4

- 52,894,700 Liters have been processed for FY98 to date - removed 6.6 kg of Chromium.

100-NR-2

- 27,872,000 Liters have been processed for FY98 to date – removed 0.025 Ci of Sr^{90}.
- 220,808,000 Liters have been processed for inception to date.

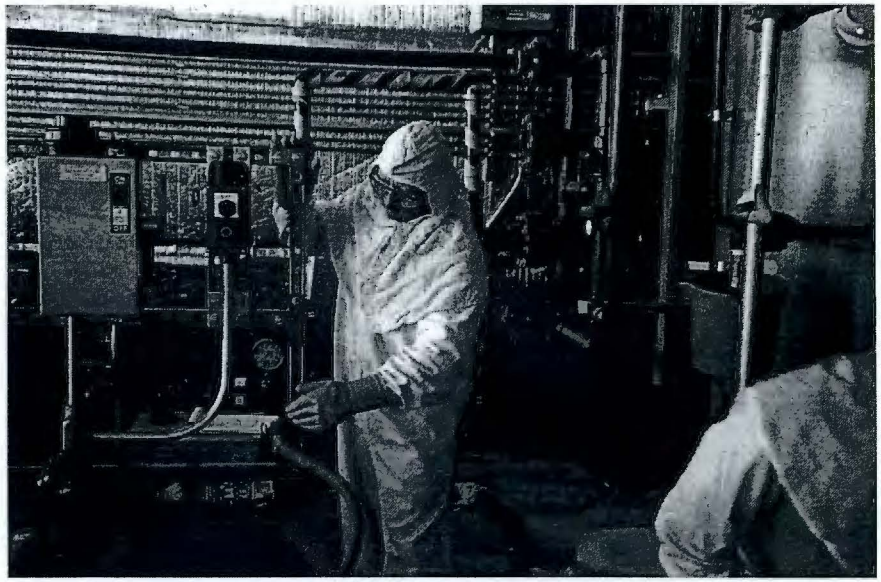
200-UP-1

- 20,758,000 Liters have been processed for FY98 to date.
- 208,529,000 Liters have been processed from inception to date (of which 72,163,000 was transported to ETF).

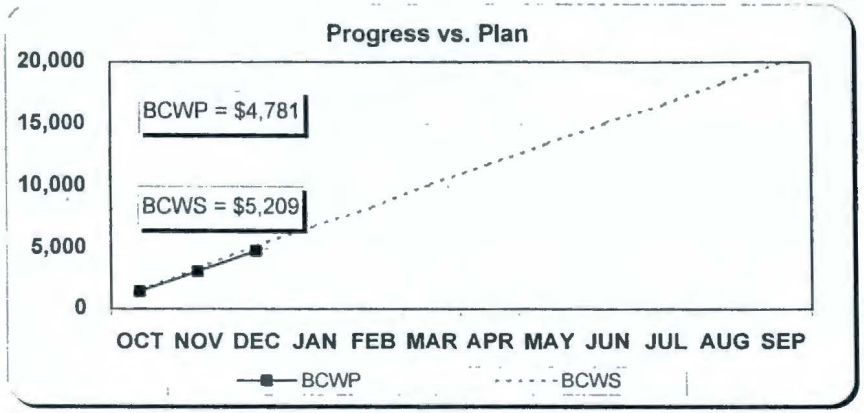
Currently shut down - modifications.

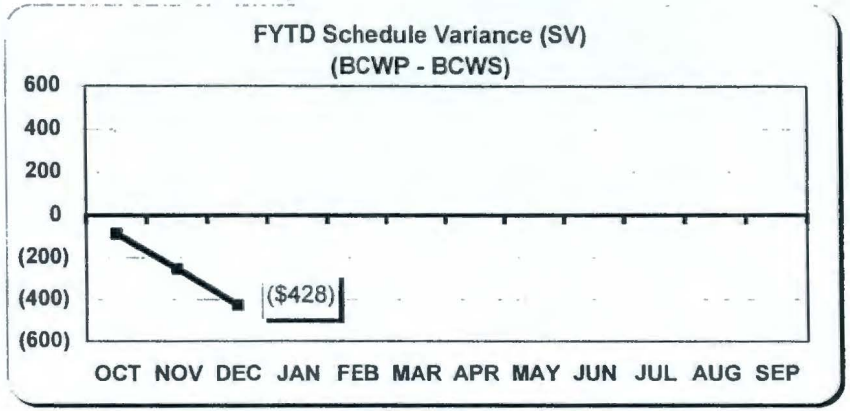
200-ZP-1

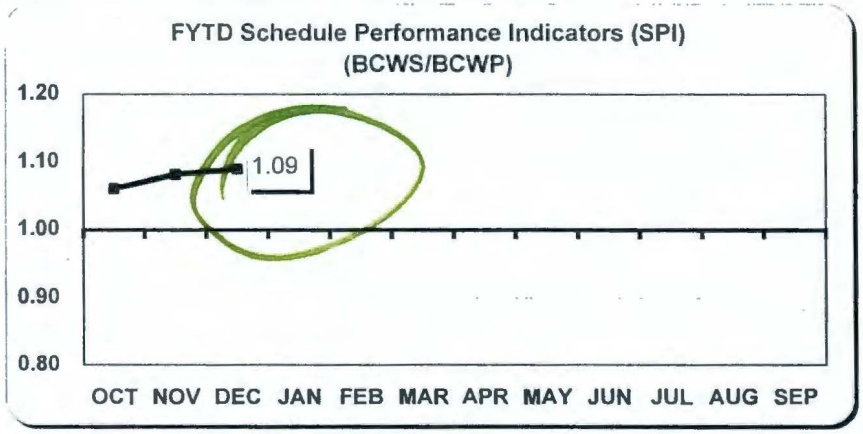
- 74,014,000 Liters have been processed for FY98.to date – removed 1,123 kg of Carbon Tetrachloride.
- 330,233,000 Liters have been processed from inception to date.
- System suspended operation 12/26/97 due to rise in Carbon Tetrachloride concentrations in effluent; analysis determined unit operating within design specifications; unit restarted.

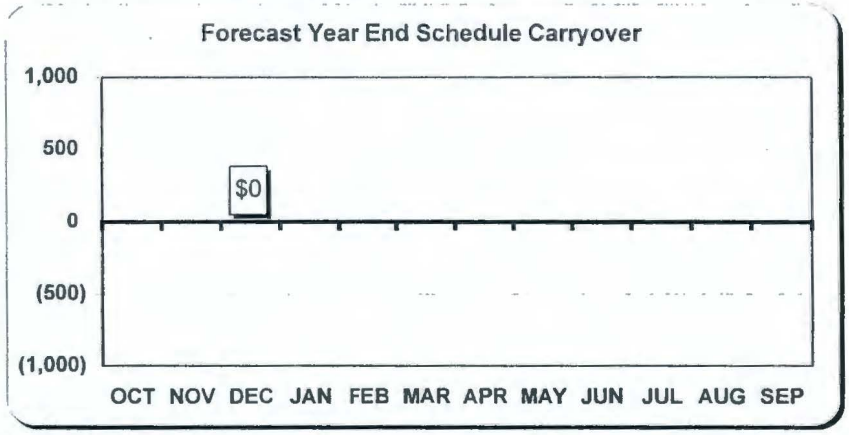


SCHEDULE PERFORMANCE ($'s in 000)







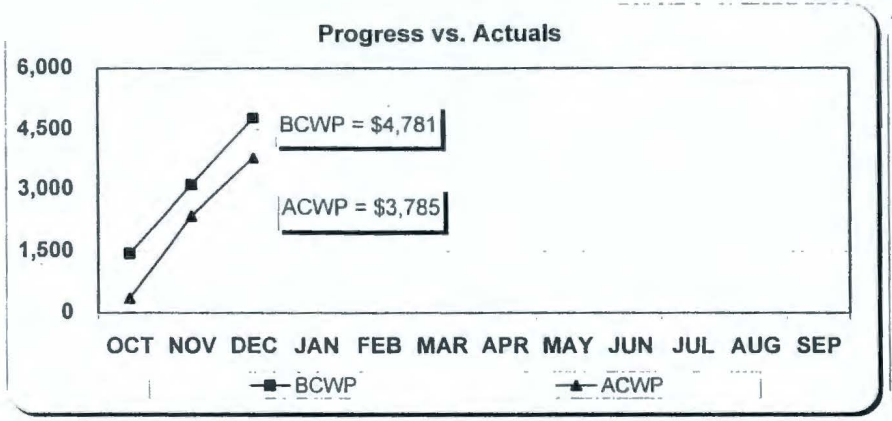


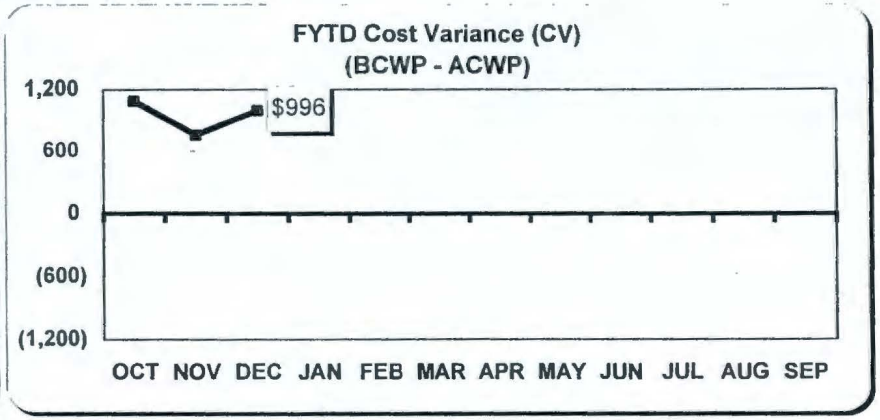
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,381	3,153	4,515	5,955	7,386	9,258	10,763	12,592	14,115	15,470	17,339	18,997
CURRENT PERIOD												
BCWS	1,531	1,833	1,845	1,614	1,518	1,868	1,583	1,693	1,682	1,471	1,696	1,671
BCWP	1,443	1,667	1,671									
FISCAL YEAR TO DATE												
BCWS	1,531	3,364	5,209	6,822	8,340	10,208	11,791	13,484	15,167	16,637	18,334	20,005
BCWP	1,443	3,110	4,781									
SV	(88)	(254)	(428)									
SPI	1.06	1.08	1.09									
Year End Schedule Carryover	0	0	0									

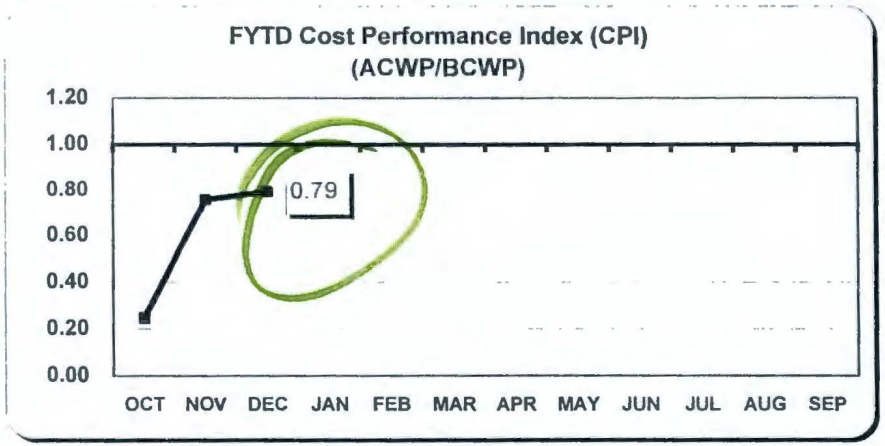
MAJOR SCHEDULE VARIANCES

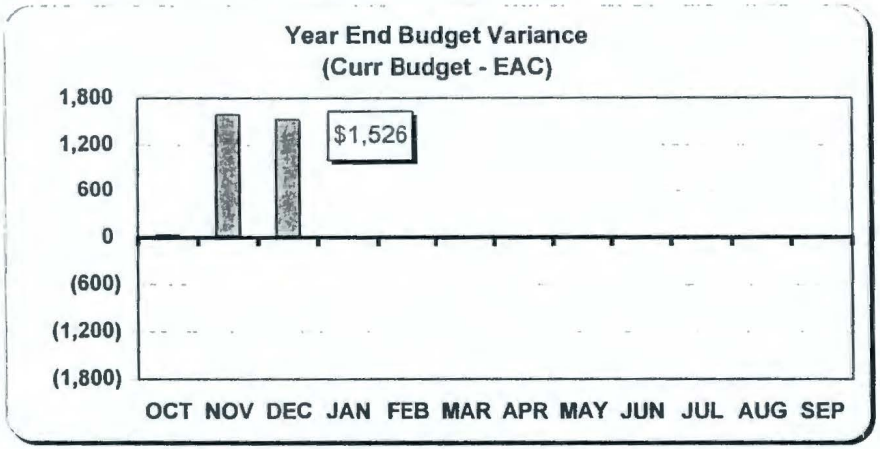
ADS	Desc	VAR	Issue	Impact	Corrective Action
3115	Hanford Site GW Mgmt Project P41202	($277K)	Groundwater Monitoring – The project is behind schedule due to 1) delays in preparing monitoring plans associated with tank farms and 200 Areas integration; 2) overdue analyses (due to no samples delivered to onsite labs); 3) a slight delay in receipt of results from the offsite lab; 4) delays in completing input on tank farm assessments for the annual report; and 5) hydraulic assessments due to stoppage of work associated with testing of the flow meter and barometric evaluations on water levels.	No impact to FY98.	Shift emphasis from assessment reports back to the annual report and monitoring plans as the assessment reports are completed. Discuss work scope associated with flow meter testing and barometric evaluations with DOE to determine if work should proceed; if so, revise schedule and budget baselines.
			LERF Monitoring – Alternative development work has been delayed until January so that higher priority work on the annual report can be completed; development of a logging contract has been delayed due to personnel changes in WMNW.	No impact to FY98.	Initiate non-critical vadose monitoring work in January; work with WM-NW to identify personnel to perform logging work and/or subcontract work to other organizations; develop LERF monitoring alternatives in January.
			Groundwater Modeling – The project is slightly behind schedule due to delays in determining the path that model integration will take following review by the CRCIA team; another factor is slight delays in preparation of the composite analysis report.	Modeling integration will be delayed until DOE resolves how to address comments from the CRCIA members. The composite analysis report is expected to be completed in December.	DOE/PNNL will develop an approach for inclusion of Tribal Nation and other stakeholders in the process.

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	1,443	1,667	1,671									
ACWP	357	1,998	1,430									
FISCAL YEAR TO DATE												
BCWP	1,443	3,110	4,781									
ACWP	357	2,355	3,785									
CV	1,087	756	996									
CPI	0.25	0.76	0.79									
EAC (Cumulative)	357	2,355	3,785	5,546	7,111	8,908	10,499	12,129	13,767	15,226	16,879	18,479
Yr End Budget Var	29	1,589	1,526									

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
3110	100-HR-3 PE3212	$303K	Chemical Treatment – The variance is due to conducting only one resin change-out per month, instead of the ten that were originally planned; less labor associated with resin change-out; and no resin has been sent for regeneration in FY98.	Impact will be determined.	The trend has been identified (Trend GW-HR3-001).
	100-KR-4 PC4212	$279K	Chemical Treatment – The variance is due to conducting only one resin change-out per month instead of the ten that were originally planned, less labor associated with resin change-out, and no resin has been sent for regeneration in FY98.	Cost underrun expected.	The trend has been identified (Trend GW-KR4-002).
3115	Hanford Site GW Mgmt Project - P41202	$245K	Groundwater Monitoring – The cost underrun is due to underruns in sampling (86K), interpretation, and reporting ($61K). The sampling underrun is due to scheduling effort costing less than anticipated and delay of PHMC costs by approximately two weeks. Interpretation and reporting are underrun because the data evaluation budget to support annual report preparation was greater than needed.	Cost underrun expected.	Costs will be tracked and trended.
			Vadose Monitoring – The underrun occurs because planned O&M costs for logging tools have been paid by TWRS, for whom WN-NW has been performing work; costs for a vadose zone annual report were not spent because the work was included in the annual groundwater monitoring report.	Cost underrun expected.	Costs will be tracked and trended.
			Well Drilling – The support required to construct 10 new RCRA wells in FY98 was not budgeted. Costs for such work are reported in this account.	Cost underrun expected.	Costs will be tracked and trended.
3210	200-ZP-2 PU2405	$203K	Physical Treatment Operations – The cost variance is due to an accrual reversal for FY97 waste management activities; final FY97 waste management costs were less then expected.	Cost underrun expected.	Continue to track and trend.

Decontamination and Decommissioning Project

Overall Status

- D&D activities focused on C Reactor Interim Safe Storage, 233-S Plutonium Concentration Facility decommissioning, and 108-F Biology Lab decommissioning
- Decommissioning activities several weeks behind schedule but expected to recover schedule within two months

105-C

- Demolition two weeks behind schedule due to additional decontamination and asbestos removal and lack of elevator use for equipment removal. Recovery expected by March
- Contract for Safe Storage Enclosure over reactor block awarded in December
- Completed SE reactor prepratory work and initiated demolition
- Completed inner rod room work
- Completed fan room demolition debris removal
- Completed ball 3X room decontamination and fixative application
- Completed ball 3X asbestos abatement
- Completed sample rooms A/B decontamination and equipment removal
- Completed northeast reactor concrete roof saw cutting
- Completed northeast reactor demolition release surveys
- Completed mobile decontamination trailer demobilization
- Completed demolition release survey for sample rooms X/Y
- Completed sample room X/Y floor separation saw cuts
- Completed lift station water removal and disposal
- Completed southeast reactor concrete roof saw cutting
- Completed technology demonstrations on pipe and concrete cutting performed

233-S Plutonium Concentration Facility

- Stabilization commenced in October
- Project behind schedule (12/31/97) on pipe trench and loadout hood removal and an ORR preparation; additional staff added to assist schedule recovery

233-S (continued)

- Completed zero energy checks, surveys, and electrical equipment installation
- Isolated facility from REDOX
- Completed removal of control panel
- Completed instrument air piping removal
- Elevated derived air concentrations observed causing use of full respirator gear requirement

108-F Biology Lab

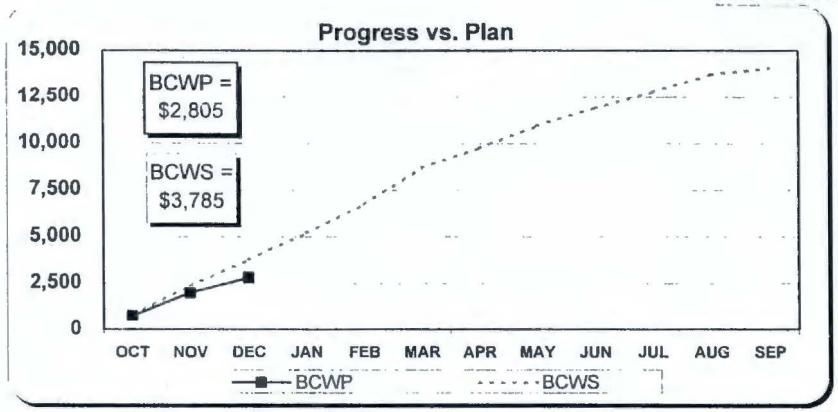
- Hazardous material, sheetrock, and stud removal completed
- Unexpected findings of alpha contamination depleted funding
- Project demobilization initiated in December

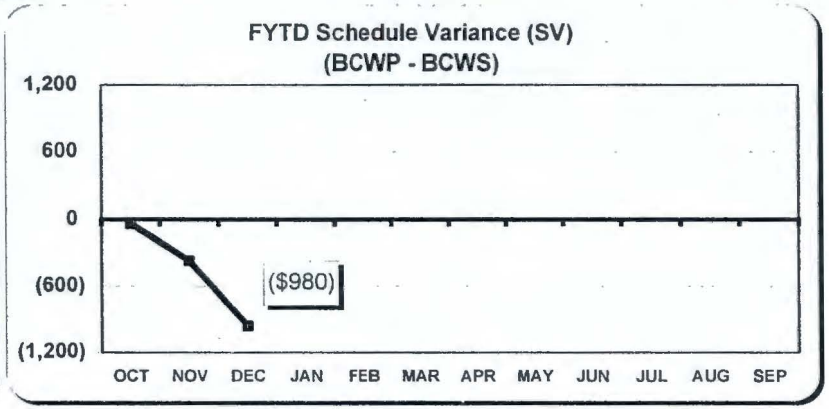
Other

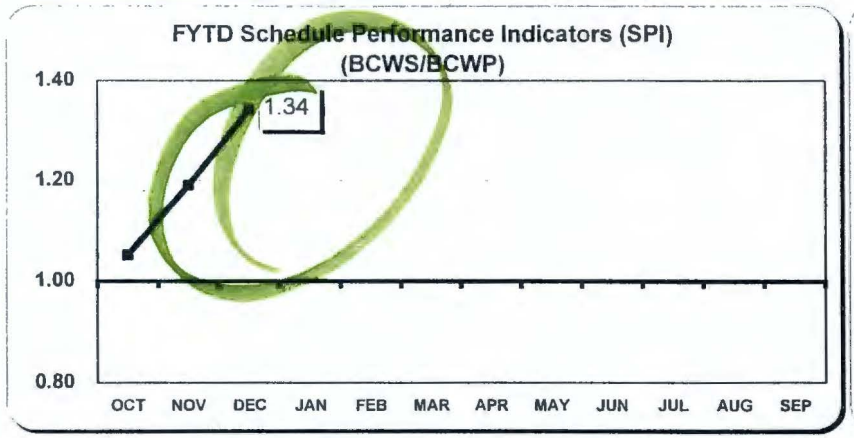
- Roof repairs performed on various facilities in 100, 200, and 300 Areas

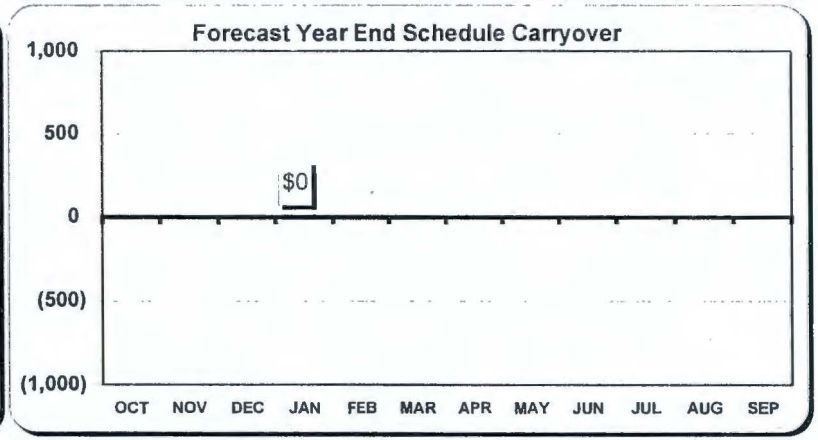
SCHEDULE PERFORMANCE ($'s in 000)

EXCLUDES EM-50









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	958	2,469	3,645	4,718	5,783	7,216	8,025	9,261	10,353	10,888	11,438	11,761
BCWS	800	1,536	1,427	1,453	1,523	1,957	1,036	1,204	986	821	1,004	329
BCWP	760	1,204	841									
BCWS	800	2,336	3,764	5,217	6,740	8,697	9,733	10,936	11,922	12,743	13,747	14,076
BCWP	760	1,964	2,805									
SV	(40)	(372)	(959)									
SPI	1.05	1.19	1.34									
Year End Schedule Carryover	0	0	0									

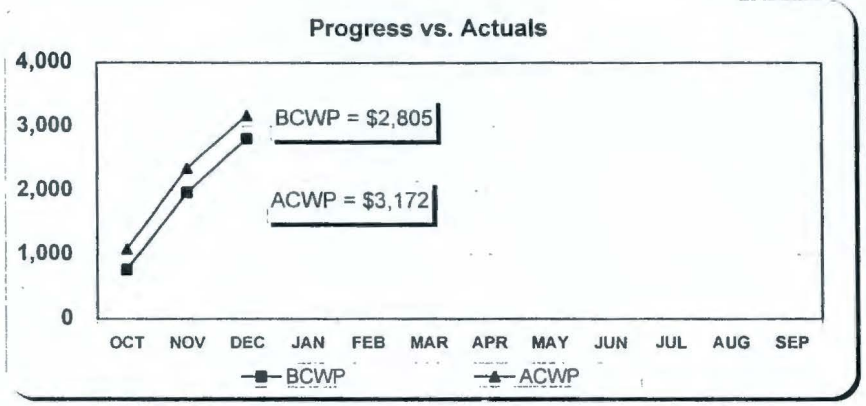
MAJOR SCHEDULE VARIANCES

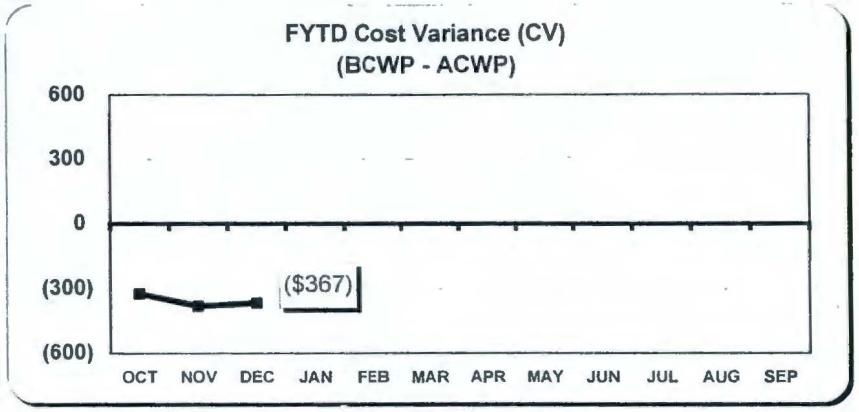
ADS	Desc	VAR	Issue	Impact	Corrective Action
3510	**105-C**				
	Demolition	($193K)	NE Reactor was delayed due to asbestos removal (now complete). Demo is now in progress.	Temporary schedule variance. Recovery by end of February.	Work is now in progress on the SE Rx. The NE Rx is ready for demo.
	Technology Demonstrations	($239K)	Large pipe cutting demonstration was delayed due to a change in the technology tooling. Asphalt emulsion is being canceled.	The schedule variance will begin to recover in January, with full recovery by March.	All deleted demonstrations have been replaced and rescheduled. The variance will recover in March.
	Misc Direct Support	($203K)	Below-grade surveys for RESRAD have been delayed for SAP approval.	No impact on long-term below-grade demolition goals.	The SAP is with the regulators for approval. Sampling should begin in January/February.
	233-S				
		($162K)	ORR is behind schedule. Late start of ORR prep due to completion of Readiness Assessment this past September and presently the completion of the work packages associated with the ORR is pushing out the start date of the ORR.	Work tied to the completion of the ORR is being rescheduled.	Attempts continue to be made to find areas where schedule improvements can be made.
			Minimal electrical support to install heaters.	Reduced worker efficiency.	233-S is working with Field Support to arrange for necessary electrical support.
			The continued issue of waste disposal caused delays in shipping of waste from on-site tents.	Potential delay in completing scheduled work.	The project is working with ERDF to complete a workable waste shipment and receiving plan.
3510	**Remaining D&D**				
	108-F	($165K)	Alpha contamination surveys and root cause analyses were not budgeted in the DWP. The project was assumed to be clear of alpha.	Schedule delay. Work is still achievable, but funding limitations may prohibit completion of DWP scope.	Scope and cost are being monitored and trended. A BCP will be prepared.

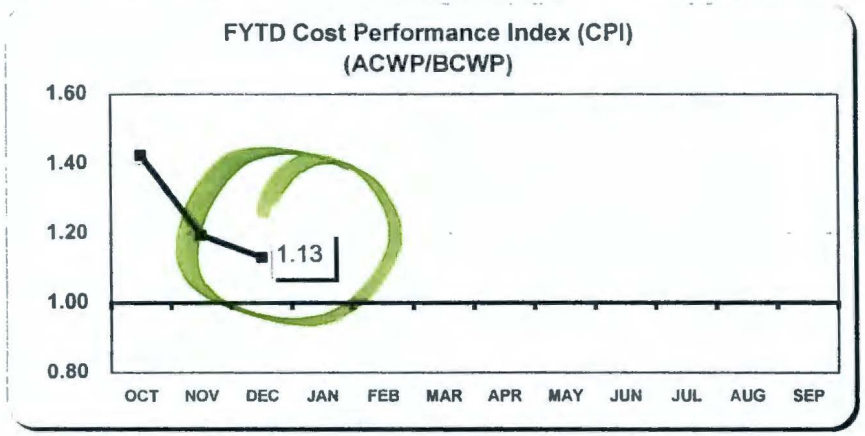
Decontamination and Decommissioning Project

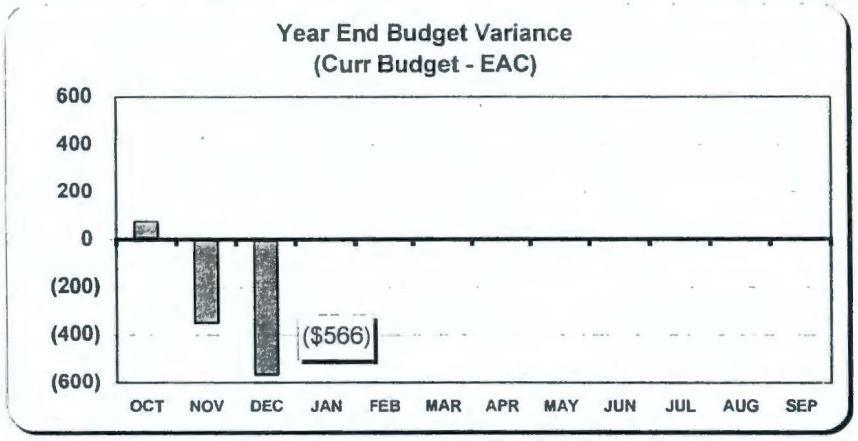
COST PERFORMANCE ($'s in 000)

EXCLUDES EM-50









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	760	1,204	841									
ACWP	1,083	1,262	827									
FISCAL YEAR TO DATE												
BCWP	760	1,964	2,805									
ACWP	1,083	2,345	3,172									
CV	(324)	(381)	(367)									
CPI	1.43	1.19	1.13									
EAC (Cumulative)	1,083	2,345	3,172	4,799	6,566	8,390	9,674	10,995	11,997	13,153	14,015	14,642
Yr End Budget Var	76	(350)	(566)									

COST VARIANCE REPORT

ADS	Desc	VAR	Issue	Impact	Corrective Action
3510	**105-C**				
	Equipment / Pipe Removal	($193K)	Higher contamination than expected has been encountered in the inner rod room. Upper pipe/equip. removal is slow due to an unrepairable elevator. Equip/pipe removal is being performed via stairs.	Probable cost overrun.	Review possibility of piping removal by heavy demolition equipment during the demo phase of the job.
	108-F Stop - Maint. Mode now.	($214K)	Alpha contamination survey and root cause analyses were not budgeted in the DWP. The project was assumed to be clear of alpha.	Cost overrun. The DWP scope will be difficult to complete without additional funding.	Scope and cost are being monitored and trended. A BCP will be prepared.

Surveillance and Maintenance (S&M) Project

Overall Status

- S&M activities on schedule
- Emphasis on winterization activities
- PUREX end-point verification continued - Not in ER yet?
- B Plant end-point verification initiated

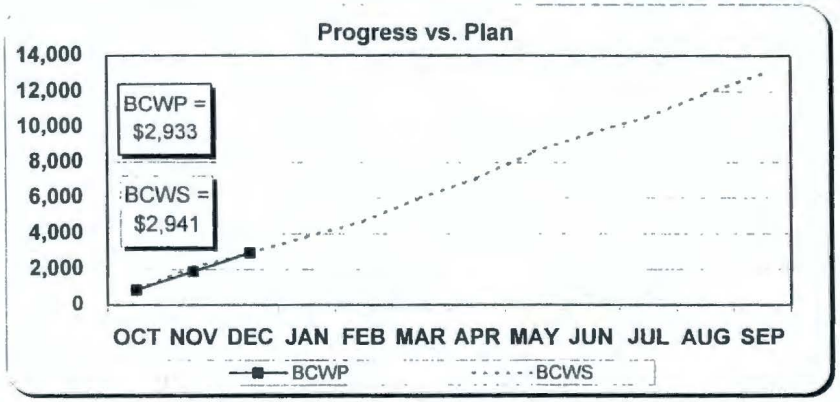
Accomplishments

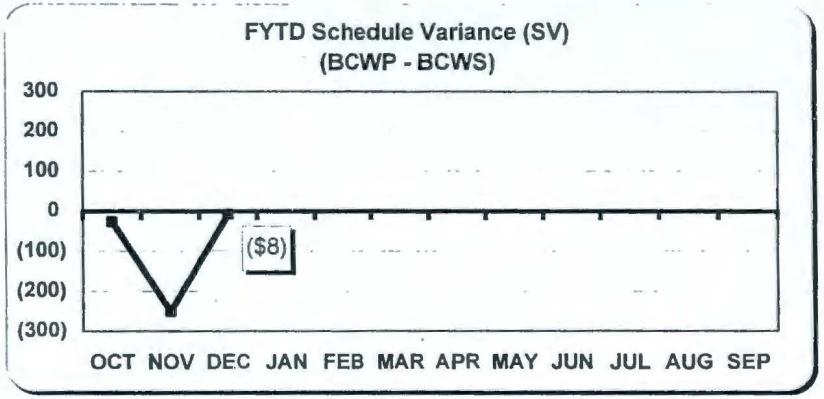
- REDOX roof repairs completed
- REDOX railroad stabilization completed
- Completed stabilization of 107-H retention basin surface contamination areas
- Completed cleanup of line sulfur from abandoned waste site
- Completed remote monitoring system installation at 202-S and 271-U facilities
- Prepared *Inactive Miscellaneous Underground Storage Tank Management Plan*

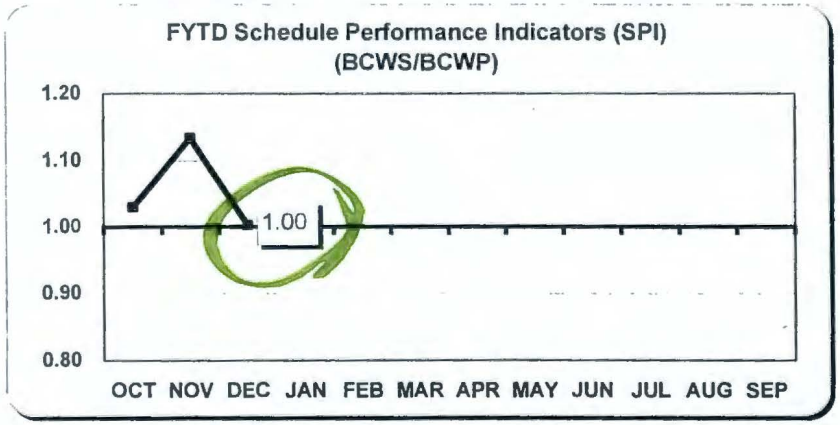
(* 107 H retention basin.)

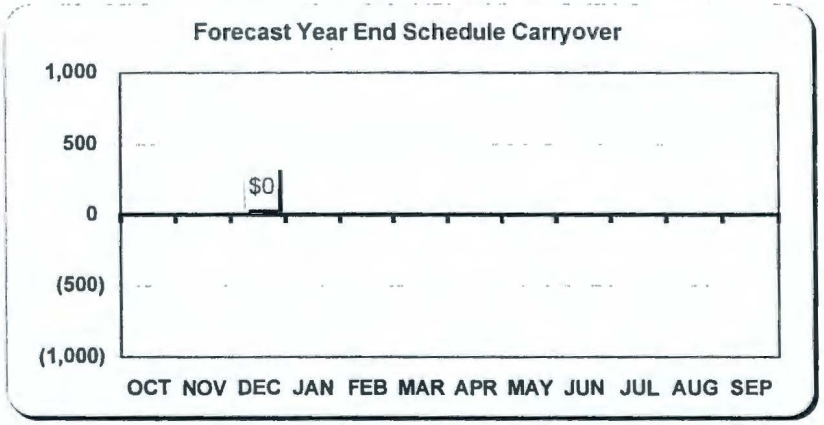
Surveillance and Maintenance (S&M) Project

SCHEDULE PERFORMANCE ($'s in 000)









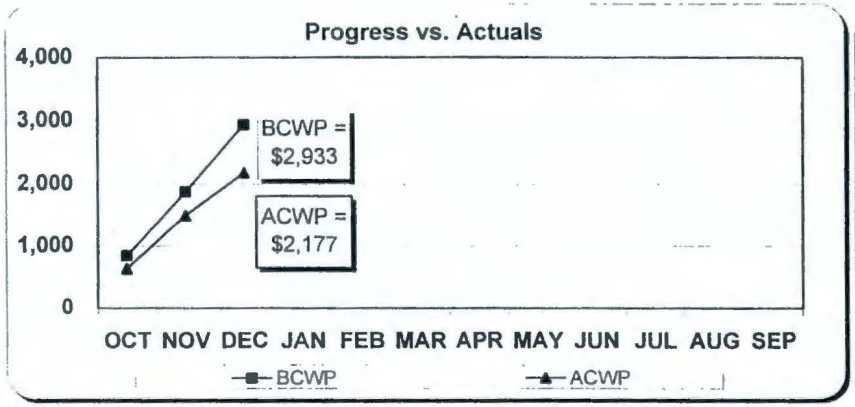
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	667	1,721	2,473	3,261	4,066	5,323	6,420	7,908	8,972	9,828	11,098	12,243
CURRENT PERIOD												
BCWS	868	1,253	820	904	854	1,288	1,088	1,486	1,070	933	1,286	1,140
BCWP	842	1,028	1,063									
FISCAL YEAR TO DATE												
BCWS	868	2,121	2,941	3,845	4,699	5,987	7,075	8,561	9,631	10,564	11,850	12,990
BCWP	842	1,870	2,933									
SV	(26)	(251)	(8)									
SPI	1.03	1.13	1.00									
Year End Schedule Carryover	0	0	0									

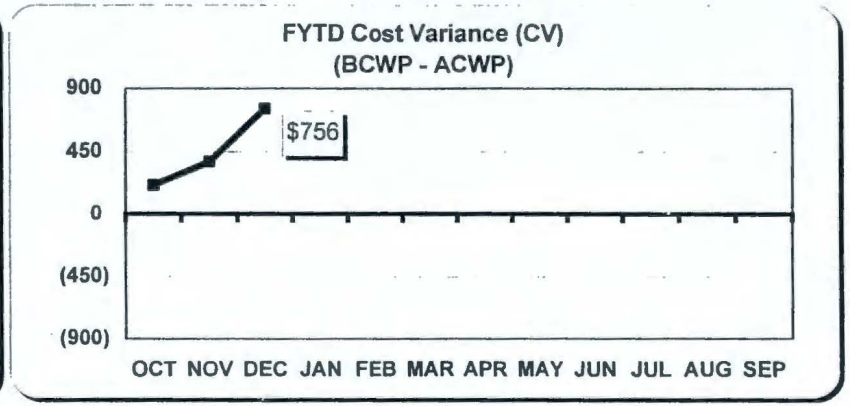
SCHEDULE VARIANCE REPORT

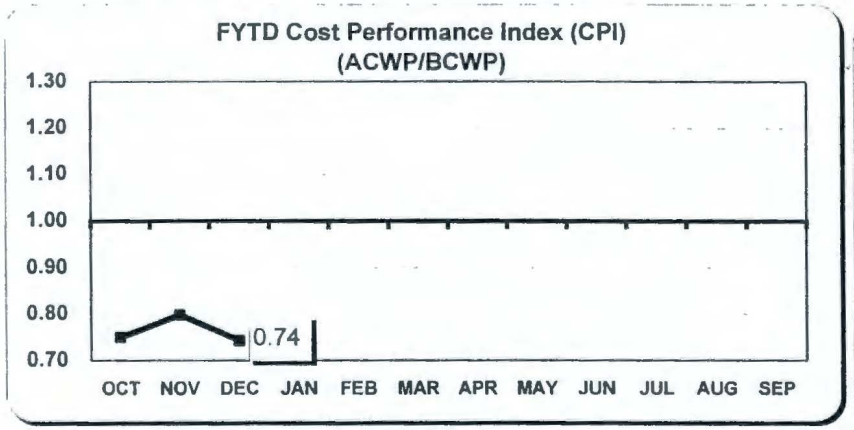
ADS	Desc	VAR	Issue	Impact	Corrective Action
3500	Surveillance & Maintenance	$142K	PJ1401 Interim Stabilization.	Pre-engineering and backfill of 107-H basin stabilization was accomplished ahead of schedule.	None.

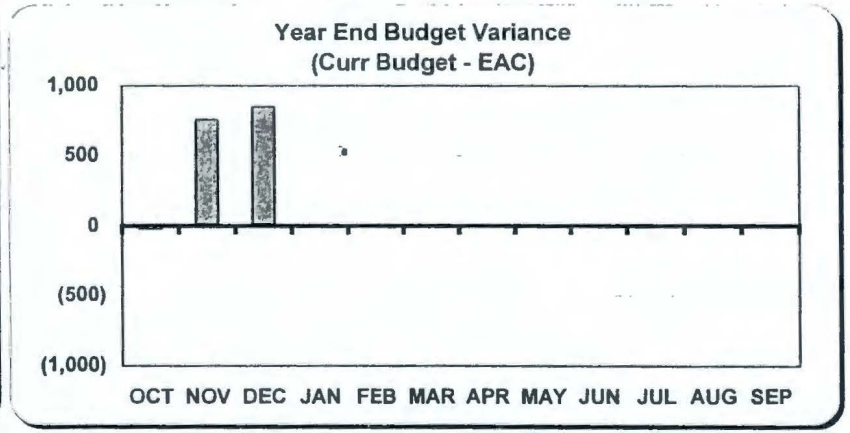
Surveillance and Maintenance (S&M) Project

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	842	1,028	1,063									
ACWP	631	861	685									
FISCAL YEAR TO DATE												
BCWP	842	1,870	2,933									
ACWP	631	1,492	2,177									
CV	211	378	756									
CPI	0.75	0.80	0.74									
EAC (Cumulative)	631	1,492	2,177	3,127	3,998	5,195	6,208	7,566	8,570	9,519	10,794	12,137
Yr End Budget Var	(23)	760	852									

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
3500	Surveillance & Maintenance	$154K	PJ1401 - Interim Stabilization.	Redox R.R. line and 107-H Basin stabilization labor productivity.	Reflect trend in EAC once the glass dump is essentially complete. Glass dump stabilization is expected to be approximately $15K higher than estimated due to additional characterization.
			UB1102 - 100 Area Risk Assessment.	S&M Program Plan and the EE/CA for S&M wastes are less than planned due to utilizing pre-existing information.	None; reflect in EAC.
		$153K	UB1126 - 100-N Area IFS&M.	Some of the surveillances were not performed by S&M. (These will be carried out by the Deactivation Project until specific facility transfer occurs.)	None; reflect lower labor requirements in EAC.
		($102K)	UE1101 - 200 Area IFS&M.	Charges to the Field Engineering COA are unusually high.	Conducted additional training to reinforce correct COAs to charge. (Current period charges in line with work performed).

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
		$114K	UE1105 - 200 Area Risk Assessment.	The REDOX roof repair was completed with less field support than planned.	Reflect savings in EAC.
		$96K	UE1102 - Facility Transition.	Staffing is less than planned for end point criteria support, as a result of Facilities not being transitioned from EM-60 (244-AR, 209-E, 224-T, 242T, and 300 Areas).	Obtain documentation from B&WHC to confirm Facilities will not be in the transition phase for FY98. Prepare BCP (upon receipt of confirmation from B&WHC) to defer scope to the revised time frame.
		$98K	UE2101 - PUREX S&M.	Some PUREX surveillances are performed by B&WHC, and the cost of surveillance work performed by BHI is less than planned.	A work order has been written to B&WHC to collect cost of the work performed (approximately $32K).
3800	LT S&M	$21K	300 & 1100 Area Long Term S&M.	Accrual reversals for PNNL work orders, and no surveillance and maintenance in the 300-FF-5 Area.	Reflect in EAC.

sediment in cubicles deeper than orig. though...

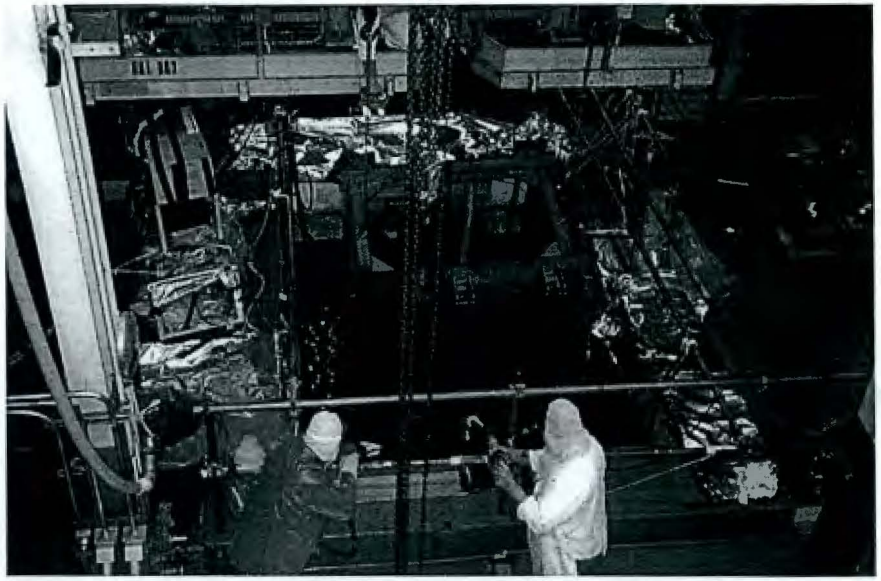
Overall Status

- N Basin cleanout continued
- N Basin Project behind schedule due to fuel piece discovery and transfer issues, additional hardware removal quantities, and additional shielding requirements
- TPA milestone change requested

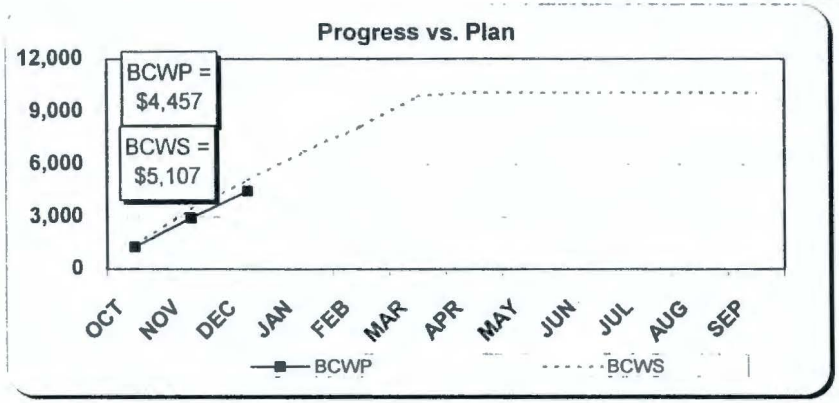
Accomplishments

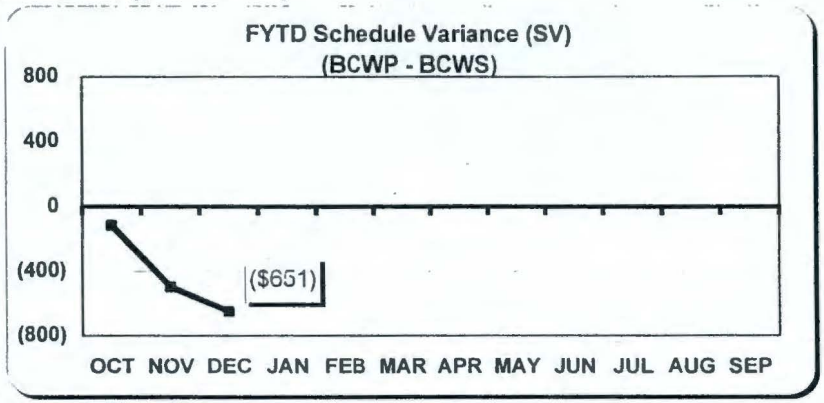
- Continued removal of HERH and low dose debris from Basin
- Grouted and shipped Monolith #25 to ERDF for disposal
- Conex Box #6 was shipped to ERDF for disposal
- Completed excavation and backfill for 107-N erosion repair
- Shipped 135 containers of waste from the 100N Waste Pad
  - 109 Hazardous Containers
  - 13 Non-regulated
  - 13 Mixed waste
- Completed vacuuming Lift Station. Sediment transfered to the North Cask Pit in main basin
- Completed removal of the decant system and prototype 3M filter systems
- Completed the Discharge Pit and Trampoline/Fast Cart Tunnel sediment flushing
- Completed installation of the 5-Ton trolleys and hoists for installing shielding panels and beams
- Completed the Readiness Assessment for the water and sediment removal from 107-N
- Obtained the final characterization sample for the N Basin sediment and initiated analysis
- The DOE N Area Senior Project Manager assumed the role of site integrator and arranged for the shipment of fuel to the 327 Lab facility in the 300 Area
- Continued search for fuel fragments. Current inventory of fuel retrieved is over 180 Lbs.

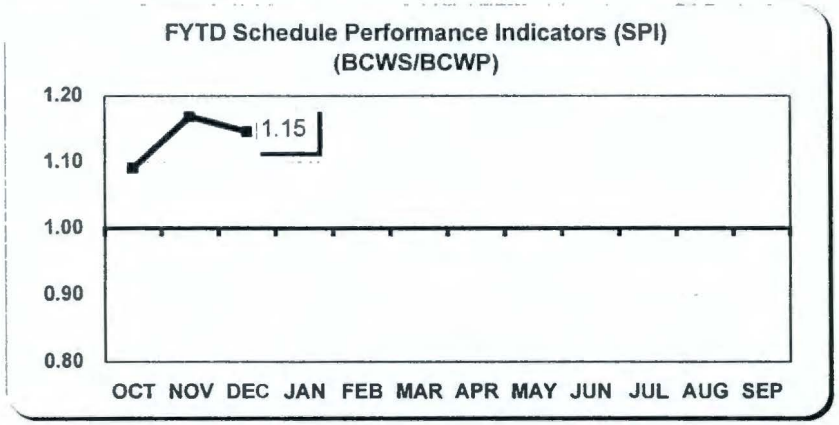
UPI + ETF Schedules need to line up.

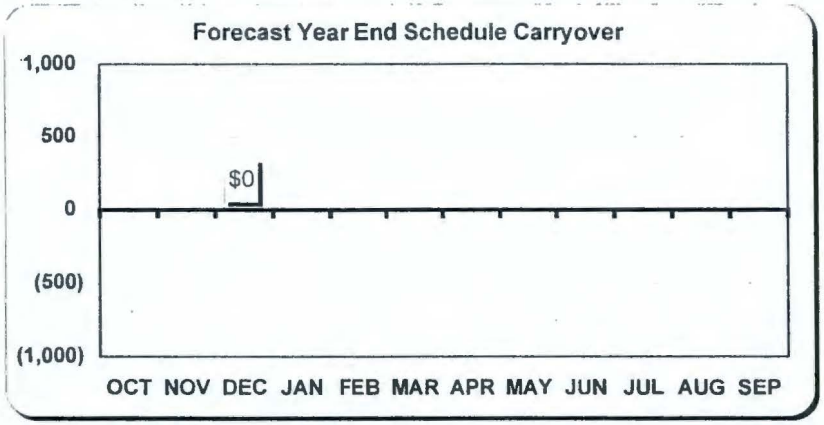


SCHEDULE PERFORMANCE ($'s in 000)







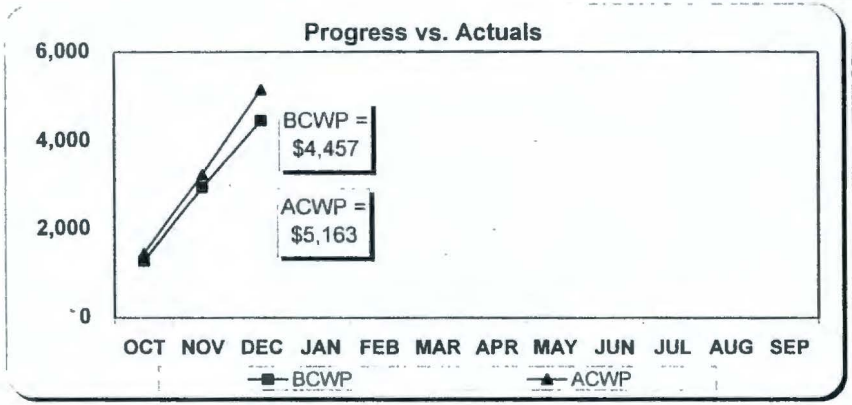


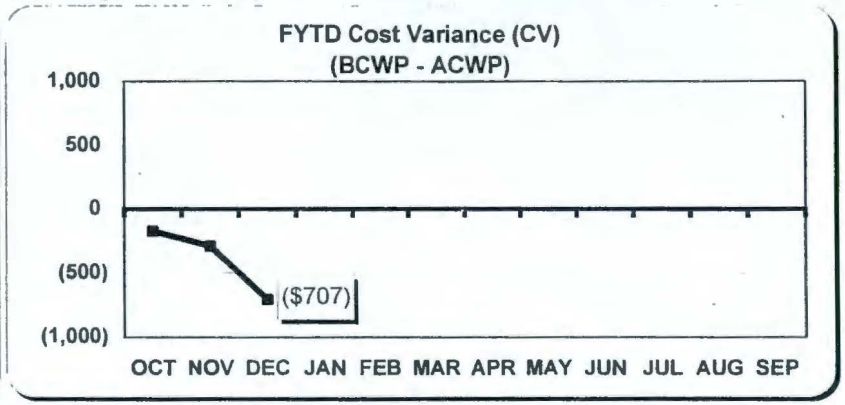
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,579	3,535	4,807	5,956	7,130	7,619	7,651	7,651	7,651	7,651	7,651	7,651
CURRENT PERIOD												
BCWS	1,404	2,045	1,659	1,609	1,447	1,712	210	0	0	0	0	0
BCWP	1,286	1,665	1,505									
FISCAL YEAR TO DATE												
BCWS	1,404	3,448	5,107	6,716	8,163	9,875	10,086	10,086	10,086	10,086	10,086	10,086
BCWP	1,286	2,951	4,457									
SV	(118)	(497)	(651)									
SPI	1.09	1.17	1.15									
Year End Schedule Carryover	0	0	0									

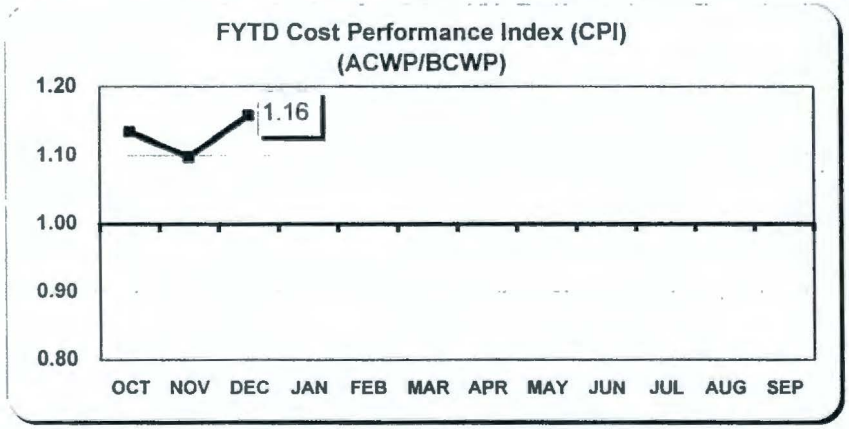
MAJOR SCHEDULE VARIANCES

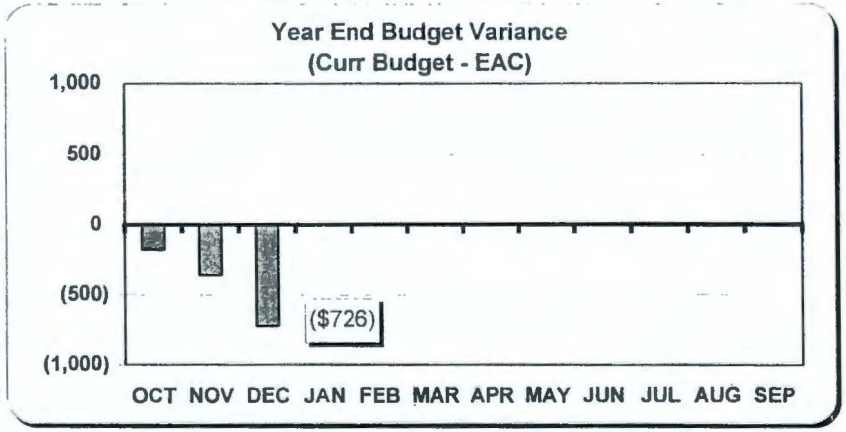
ADS	Desc	VAR	Issue	Impact	Corrective Action
3600	UN3201 105-N Roof Repairs	($126K)	105-N roof repairs were delayed to early spring due to cool weather hampering the subcontractor.	No impact.	Trend NB98-041 has been prepared and will be followed by an administrative BCP to move the spending plan out, or transfer the scope to IFS&M.
	UN4201 N Basin Shielding	($291K)	Delays in the placement of cubicle covers and subcontractor mobilization are due to interference removal and sediment relocation activities being behind schedule.	Currently under evaluation.	Optimization and re-forecasting of preceding activities to accelerate the mobilization of the shielding subcontractor.
	UN4201 N Basin Fuel Transfer	($130K)	The decision to transfer fuel to the 327 lab vs. K Basins has delayed shipment. Changes in shipping locations have increased the documentation requirements.	A BCP is required for an additional quantity of fuel (additional shipment) and change in shipping locations.	Trend NB98-026 has been established; an optimization schedule has been developed, and joint BHI/B&W weekly meetings have been initiated. BCP #98087 has also been prepared and is in the approval process.

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	1,286	1,665	1,505									
ACWP	1,460	1,781	1,923									
FISCAL YEAR TO DATE												
BCWP	1,286	2,951	4,457									
ACWP	1,460	3,240	5,163									
CV	(173)	(289)	(707)									
CPI	1.13	1.10	1.16									
EAC (Cumulative)	1,460	3,240	5,163	7,054	8,143	9,982	10,811	10,811	10,811	10,811	10,811	10,811
Yr End Budget Var	(181)	(366)	(726)									

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
3600	UN4201 Shielding and Basin Cleanup	($674K)	Costs are overrun due to the quantities of HERH and low-dose hardware exceeding planned levels. Sediment relocation activities also contributed to the cost overrun due to ROSEE failure required Sandpiper operations. Additional pumps are required.	Cost will overrun.	BCPs and trends are in process for the increase in quantities for low dose and HERH. A trend will be prepared as necessary for Sandpiper activities.
	UN4201 Surv. & Maint	($222K)	Costs associated with the disposal and grouting of the existing 3M filter systems. Additionally, higher levels of RCT support were required for airborne monitoring.	Costs will overrun.	Trend NB98-001 will be completed for grouting and disposal requirements.
	UN 4201 Project Support and Waste Management	$174K	The baseline is linearly spread for level of effort activities. The cost underrun will decline as the year continues.	No impact.	None required.

Site Atlas

Accomplishments

Safety and Health

- Completed the final draft of Activity Data Sheet (ADS) scope documents for Environmental Safety and Health (ES&H) for fiscal years 1999 to 2006).

- Continued support to the Hanford Site Emergency Preparedness/Environmental Action Team in regard to the Hanford Site Emergency Preparedness response to the May 14, 1997 PRF emergency.

- The ERC response to the PAD internal dosimetry assessment was prepared, working in conjunction with the Internal Dosimetry Project.

Technology Applications

- BHI supported the Environmental Management Advisory Board Science Committee review of the Environmental management Science Program (EMSP). The stated purpose of the review was to assess how well the EMSP is achieving its goal of bringing the best scientific talent in the country to work on the most interactable environmental problems confronting the DOE.

- Issued BHI Strategy for Enhancing Technology Utilization In Support of the Environmental Restoration Project.

- Implemented Bhi EM-40/EM-50 partnering strategy with DOE-HQ.

- Completed assessment of 10 new technologies for potential application.

- Conducted quarterly meetings between BHI and EMSL.

Environmental Technologies

- Completed the final Hanford Site Manhattan Project and Cold War Era Historic District Treatment Plan which implements an innovative national strategy to streamline the DOE's compliance with National Historic Preservation Act requirements.

- Updated and published the Hanford Site Atlas, a comprehensive electronic atlas with 150 pages of maps showing the location of major geographic features, buildings, waste sites, and wells on the Hanford Site.

Engineering and Technology

- 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.

Document Control/Procurement/External Affairs

- Public Information - Provided assistance to RL-ER and RL-OEA regarding announcement that draft PNNL studies indicate tank waste contaminants have reached Hanford groundwater. Information revealed at the November 25 press conference that attracted local, regional, and national media coverage.

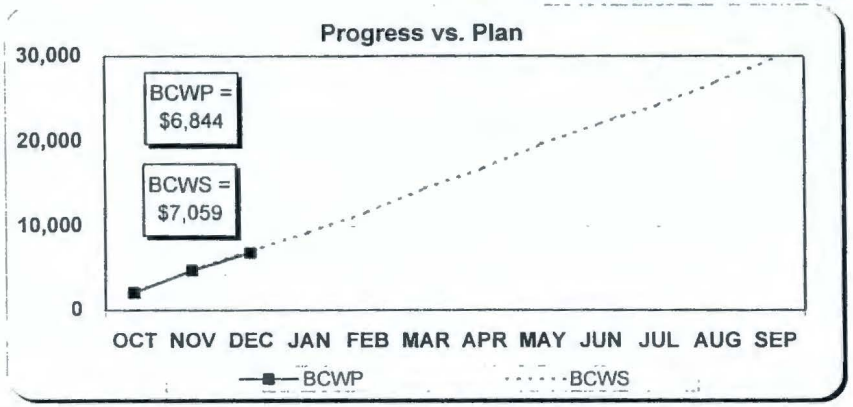
- Program Management and Support - In support of RL's Office of Chief Counsel (RL-OCC) regarding the "Downwinders" litigation, DIS performed searches of the Document and Records Tracking System (DARTS) and the DMS on certain attributes designated by the litigants and retrieved, copied, and indexed 700 documents in a 24 hour period, for submittal to RL-OCC.

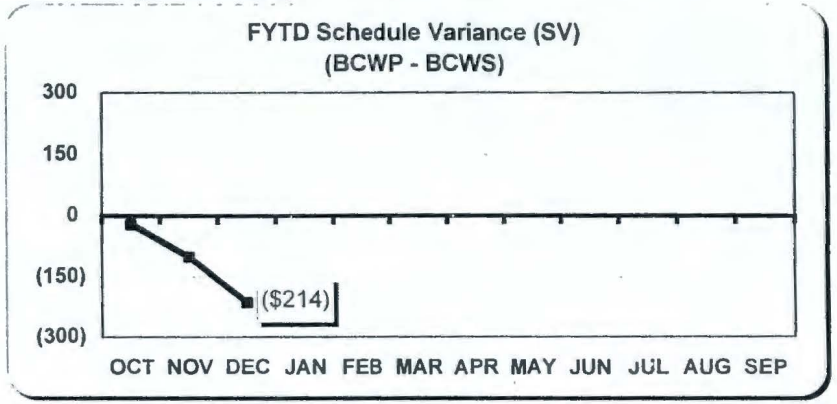
Planning and Controls

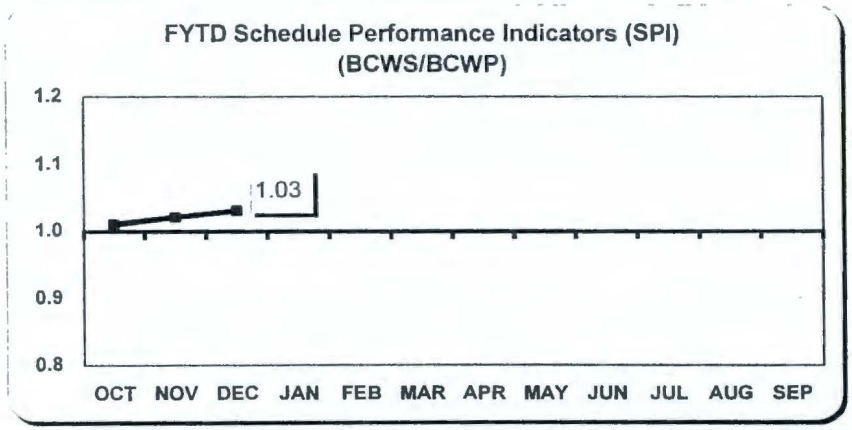
- Issued initial IPL to RL.
- FY 1997 ER Year End review held with BHI, RL and HQ management and issued the FY 1997 Richland Environmental Restoration Project Annual Report.
- Initial Program Baseline Summaries were updated and submitted to DOE-HQ.
- The ER Project Baseline, which included the Long Range Plan, was submitted to DOE-RL 12/1/97.
- The Baseline Change Proposal that incorporates the recently issued Baseline update, Rev. 0, was approved by DOE-RL 12/16/97 and forwarded to HQ for approval.
- Hanford Site 2006 Accelerated Cleanup Plan rollups and summaries were submitted to DOE-HQ 12/18/97.
- The Functional Cost Report (formerly FMSIC) was issued to RL.
- Quality Improvement Teams continued to meet on the historical reporting, monthly reporting, and EAC update. Recommendations to Planning and controls management are scheduled to be presented in January.

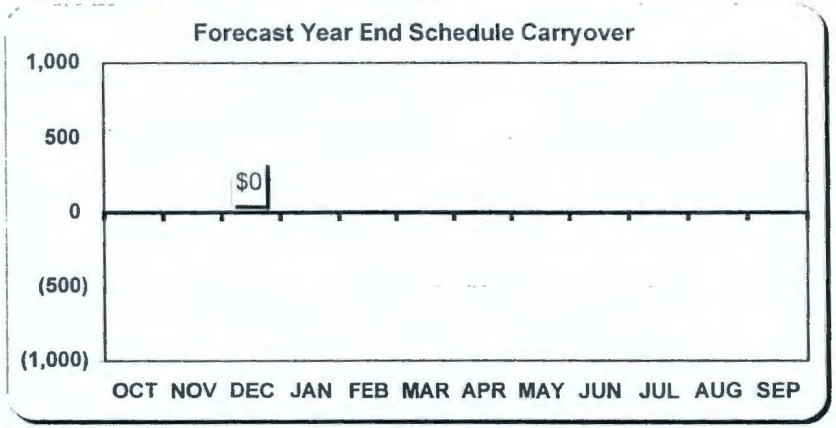
Program Management and Support Project - ERC

SCHEDULE PERFORMANCE ($'s in 000)









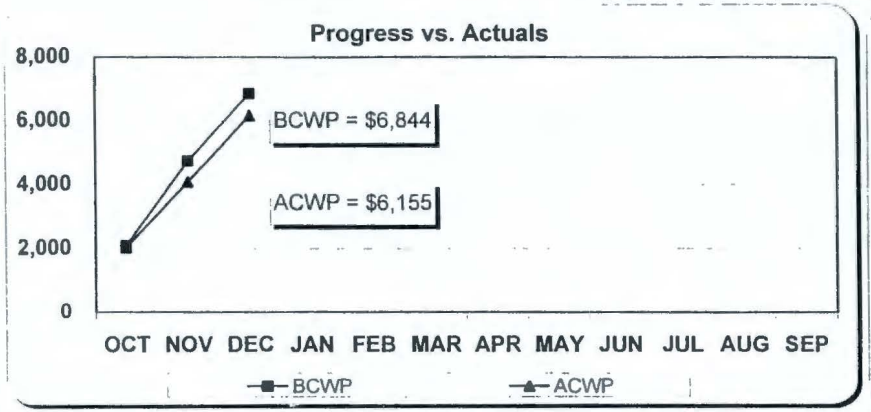
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	2,165	4,674	6,892	9,195	11,631	14,391	16,776	19,605	22,112	24,389	27,175	29,788
CURRENT PERIOD												
BCWS	2,105	2,738	2,216	2,249	2,430	2,800	2,357	2,827	2,416	2,196	2,666	2,819
BCWP	2,084	2,656	2,104									
FISCAL YEAR TO DATE												
BCWS	2,105	4,843	7,059	9,308	11,738	14,538	16,895	19,722	22,138	24,334	27,000	29,819
BCWP	2,084	4,741	6,844									
SV	(21)	(102)	(214)									
SPI	1.01	1.02	1.03									
Year End Schedule Carryover	0	0	0									

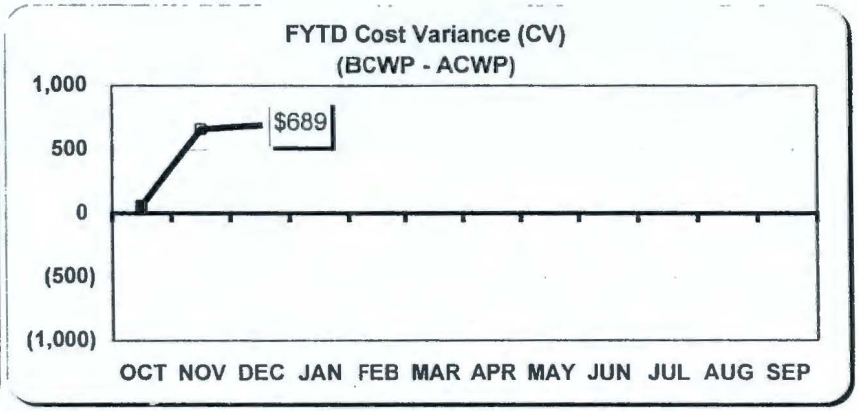
MAJOR SCHEDULE VARIANCES

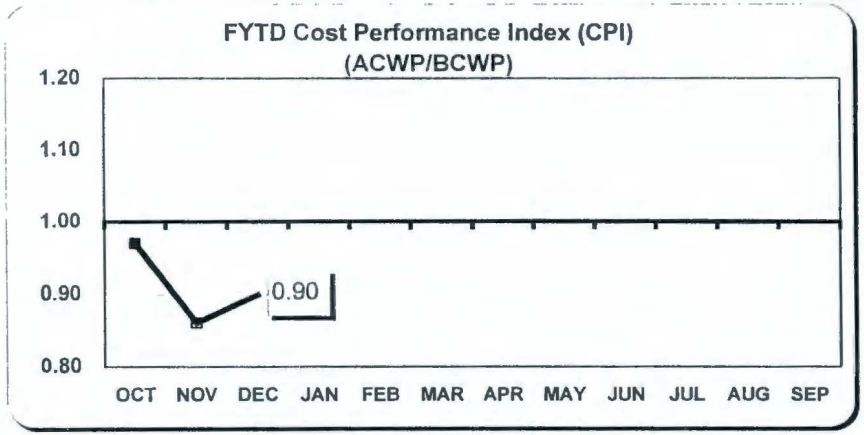
ADS	Desc	VAR	Issue	Impact	Corrective Action
3400	Planning & Controls Restructuring	($103)	The IROF was not initiated during January. Analysis of staff requirements was ongoing pending receipt of FY98 closure funding.	Additional funding will be required later in the fiscal year to cover expected ERC staff reductions.	The IROF is planned to start in 1998. Analysis of the restructuring cost account budget is continuing on a monthly basis.
	Composite of Variances (17 Control Accounts – prior years)	($111)	None.	None.	None.

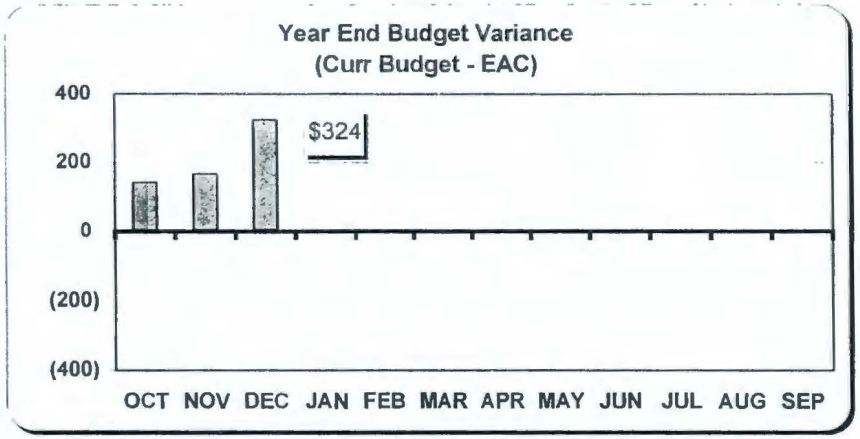
Program Management and Support Project - ERC

COST PERFORMANCE ($'s in 000)









	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CURRENT PERIOD												
BCWP	2,084	2,656	2,104									
ACWP	2,022	2,058	2,076									
FISCAL YEAR TO DATE												
BCWP	2,084	4,741	6,844									
ACWP	2,022	4,080	6,155									
CV	63	661	689									
CPI	0.97	0.86	0.90									
EAC (Cumulative)	2,022	4,080	6,155	8,337	10,747	13,885	16,229	19,023	21,399	23,591	26,234	29,495
Yr End Budget Var	142	168	324									

MAJOR COST VARIANCES

ADS	Desc	VAR	Issue	Impact	Corrective Action
3400	Project Technical Support Technology Applications	$101	An accounting system error in September 1997 over-accrued this account. The reversal of this accrual is reflected as a credit in a reduction to actual costs. Work order accruals were not incorporated into December actuals.	None.	Trend 98005 was prepared to account for the underrun caused by the $45K reduction in FY98 EAC. Actuals for December (as well as accruals for January) will be reported next month.
	Project Technical Support Design Engineering	$73	Costs; Self Assessments; DNFSB support; Systems Engineering support and associated RDD-100 database user fees; and infrastructure support (i.e., supervision, admin. and preparation of project reports) have been less than planned.	None.	A trend analysis is under review to evaluate underruns.
	Prog. & Proj. Supt. Records & Document Control	$139	Staffing changes in Procedures Coordination have resulted in a projected underrun for the year of $98.1K	None.	Trend 98-006 has been prepared to document this underrun.
	Planning & Controls BHI Performance Measurement	$128	Period 98-1 (October-March) costs for the performance fee are being accrued at 90%, per RL direction.	None.	The EAC will be evaluated at the end of period 98-1.
	Composite of Variances (prior years) (14 Control Accounts)	$248	None.	None.	None.

N Area Project

Issue: N-Deactivation TPA milestone date extension in dispute resolution

Action: N Basin team met with Ecology on February 2nd and 5th to discuss the TPA extension date. Negotiations are continuing. A revised TPA Change Request will be submitted in late February.

Remedial Action and Waste Disposal Project

Issue: Schedule impact to (4) 100 Area TPA Milestones (100-BC, 100-DR and 100-HR) due to increased waste site quantities (plumes).

Action: Meeting scheduled with regulators on 2/24 to discuss options and path forward. 4:30 pm today

Issue: Lead contaminated soil that exceeds ERDF Waste Acceptance Criteria has been discovered in Landfill 1D at 300-FF-1. Excavated soils can not be disposed in ERDF until a plan for further characterization/treatment/disposal is developed. If treatment is required, additional funding will be necessary.

Action: Leave waste soil stockpiled within the unit. Work with regulators to explore additional characterization and/or regulatory pathways that could lead to eventual acceptance at ERDF, without treatment.

Issue: Integration of work associated with the Remaining Sites ROD is on hold, pending establishment of liaison contacts with K-Basin personnel, and establishment of a thorough understanding of regulatory requirements and associated schedule limitation imposed by EPA.

Action: Once schedule is developed by K-Basin Project, Remaining Site ROD timing can be finalized.

Issue: EPA has indicated that a notice of violation will be issued as a result of a three gallon/day leak in the primary liner of leachate tank #1, management of IDW waste, and amount of operating open face areas at ERDF.

Action: Repairs to the tank were completed in November. Long Range Action: Install pipeline to ETF and/or installation of a surface impoundment; drums have been relabeled and procedures improved for surveillance.

take signs down

Issue: The project is currently unable to radiologically downpost remediated waste sites based on current interpretation of DOE Order 5400.5. This will result in additional work controls, schedule delays and increased costs to perform backfill and revegetation. Initial backfills are scheduled to start at 300-FF-1 in December.

Action: ERC is working with DOE and has drafted a memo requesting DOE concurrence to clarify to the ER Program that the CERCLA mandated cleanup process implements the intent of DOE Order 5400.5, such that sites which meet cleanup criteria specified in RODs would not be subject to occupational posting under the Hanford Site Radcon manual.

Groundwater Management

Issue: Technetium found at 100-HR-3. Method/location of disposal needs to be determined (ERDF or Central Waste Complex); cost impact significant if waste sent to Central Waste Complex, organic/carbonaceous issue, RCRA permitting issue. Cost impact not in project EAC.

EAP

Action: Preparing a BCP for approximately $800K.

Issue: Organic/carbonaceous waste disposal at ERDF

LLW?

Action: BHI is working with the RL and PHMC on a site-wide petition to address the issue. Waste continues to be stored/managed at 200-UP-1, 200-ZP-1, and 200-ZP-2 until a decision is received from Ecology. Preparing a BCP for 200-UP-1 to send waste to Central Waste Complex ($360K).

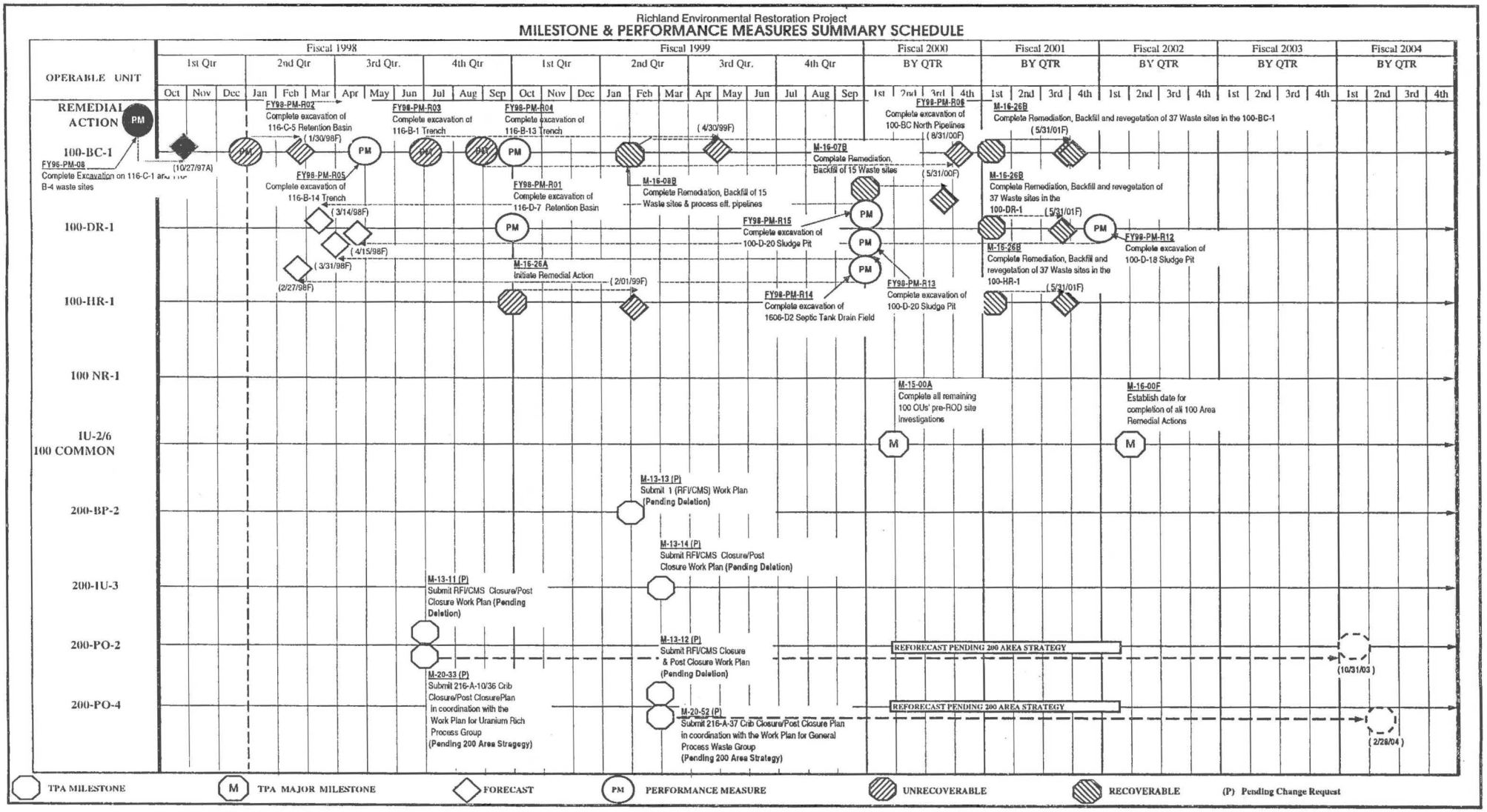
Issue: Ecology needs to decide on the path forward for 200-UP-1.

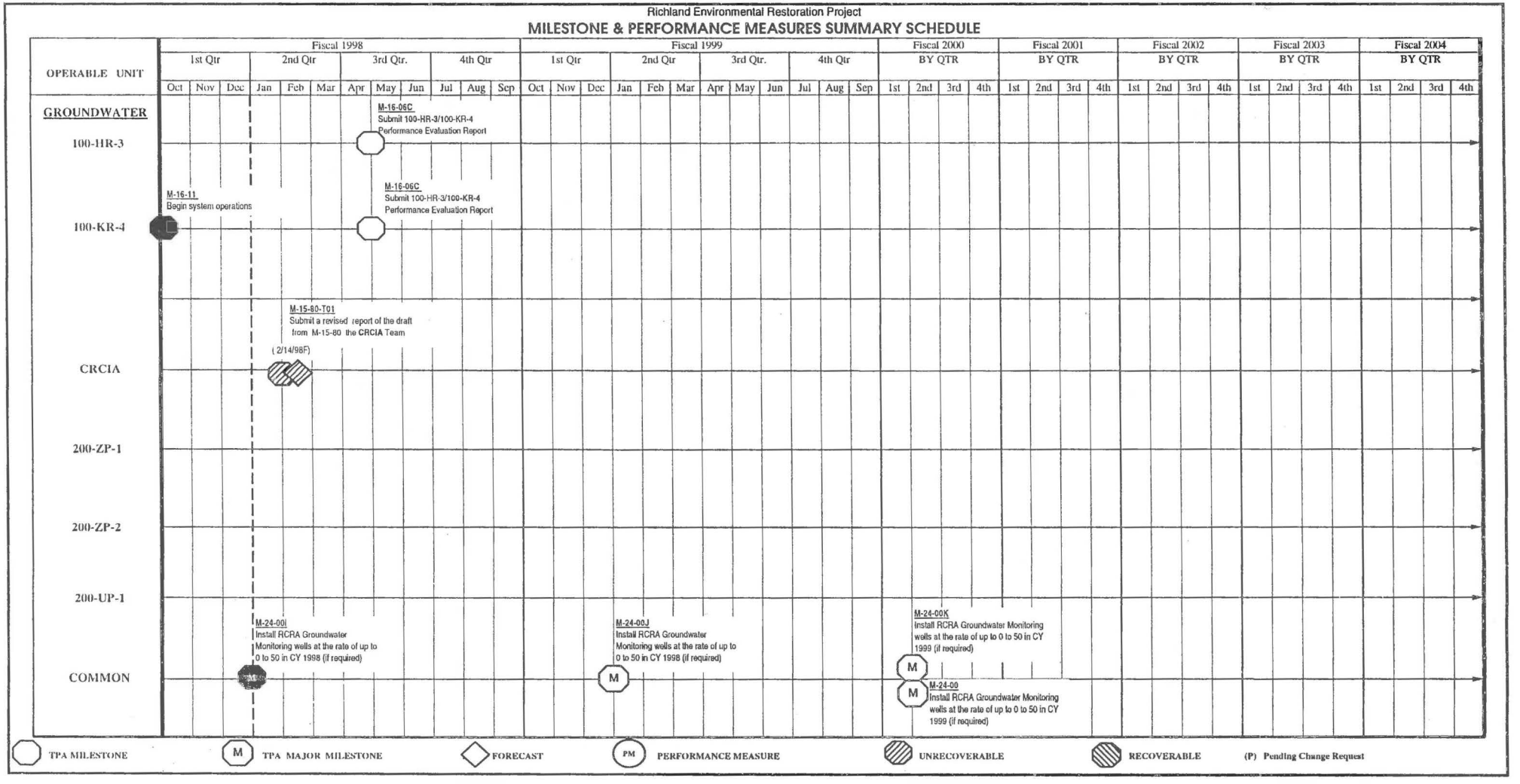
Action: Project will submit a BCP for continued operations through September 30, 1998 to provide additional time for decisions on future operations.

Current ER Project Issues

Issue: The DOE-RL, EPA, and Ecology have indicated they would not sign the Foreword of the revised report for the draft "Screening Assessment and Requirements for a Comprehensive Assessment," and have requested that the signature blocks be removed from the Foreword. This has resulted in a contentious situation within the CRCIA Team.

Action: Ecology is currently working this issue towards resolution.


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Fiscal 2003
Fiscal 2004
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
REMEDIAL ACTION
100-BC-1
FY96-PM-08
Complete Excavation on 116-C-1 and the B-4 waste sites
(10/27/97A)
FY98-PM-R02
Complete excavation of 116-C-5 Retention Basin
(1/30/98F)
FY98-PM-R05
Complete excavation of 116-B-14 Trench
(3/14/98F)
(4/15/98F)
(3/31/98F)
(2/27/98F)
FY98-PM-R03
Complete excavation of 116-B-1 Trench
FY98-PM-R04
Complete excavation of 116-B-13 Trench
FY98-PM-R01
Complete excavation of 116-D-7 Retention Basin
M-16-26A
Initiate Remedial Action
(2/01/99F)
(4/30/99F)
M-16-08B
Complete Remediation, Backfill of 15 Waste sites & process eff. pipelines
M-16-07B
Complete Remediation, Backfill of 15 Waste sites
FY98-PM-R15
Complete excavation of 100-D-20 Sludge Pit
FY98-PM-R14
Complete excavation of 1606-D2 Septic Tank Drain Field
FY98-PM-R13
Complete excavation of 100-D-20 Sludge Pit
FY98-PM-R06
Complete excavation of 100-BC North Pipelines
(8/31/00F)
(5/31/00F)
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-BC-1
(5/31/01F)
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-DR-1
(5/31/01F)
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-HR-1
(5/31/01F)
FY98-PM-R12
Complete excavation of 100-D-18 Sludge Pit
100-DR-1
100-HR-1
100 NR-1
M-15-00A
Complete all remaining 100 OUs' pre-ROD site investigations
M-16-00F
Establish date for completion of all 100 Area Remedial Actions
IU-2/6
100 COMMON
200-BP-2
M-13-13 (P)
Submit 1 (RFI/CMS) Work Plan (Pending Deletion)
M-13-14 (P)
Submit RFI/CMS Closure/Post Closure Work Plan (Pending Deletion)
200-IU-3
M-13-11 (P)
Submit RFI/CMS Closure/Post Closure Work Plan (Pending Deletion)
200-PO-2
M-13-12 (P)
Submit RFI/CMS Closure & Post Closure Work Plan (Pending Deletion)
REFORECAST PENDING 200 AREA STRATEGY
(10/31/03)
M-20-33 (P)
Submit 216-A-10/36 Crib Closure/Post ClosurePlan in coordination with the Work Plan for Uranium Rich Process Group (Pending 200 Area Stragegy)
200-PO-4
M-20-52 (P)
Submit 216-A-37 Crib Closure/Post Closure Plan in coordination with the Work Plan for General Process Waste Group (Pending 200 Area Strategy)
REFORECAST PENDING 200 AREA STRATEGY
(2/28/04)
TPA MILESTONE
TPA MAJOR MILESTONE
FORECAST
PERFORMANCE MEASURE
UNRECOVERABLE
RECOVERABLE
(P) Pending Change Request


Richland Environmental Restoration Project
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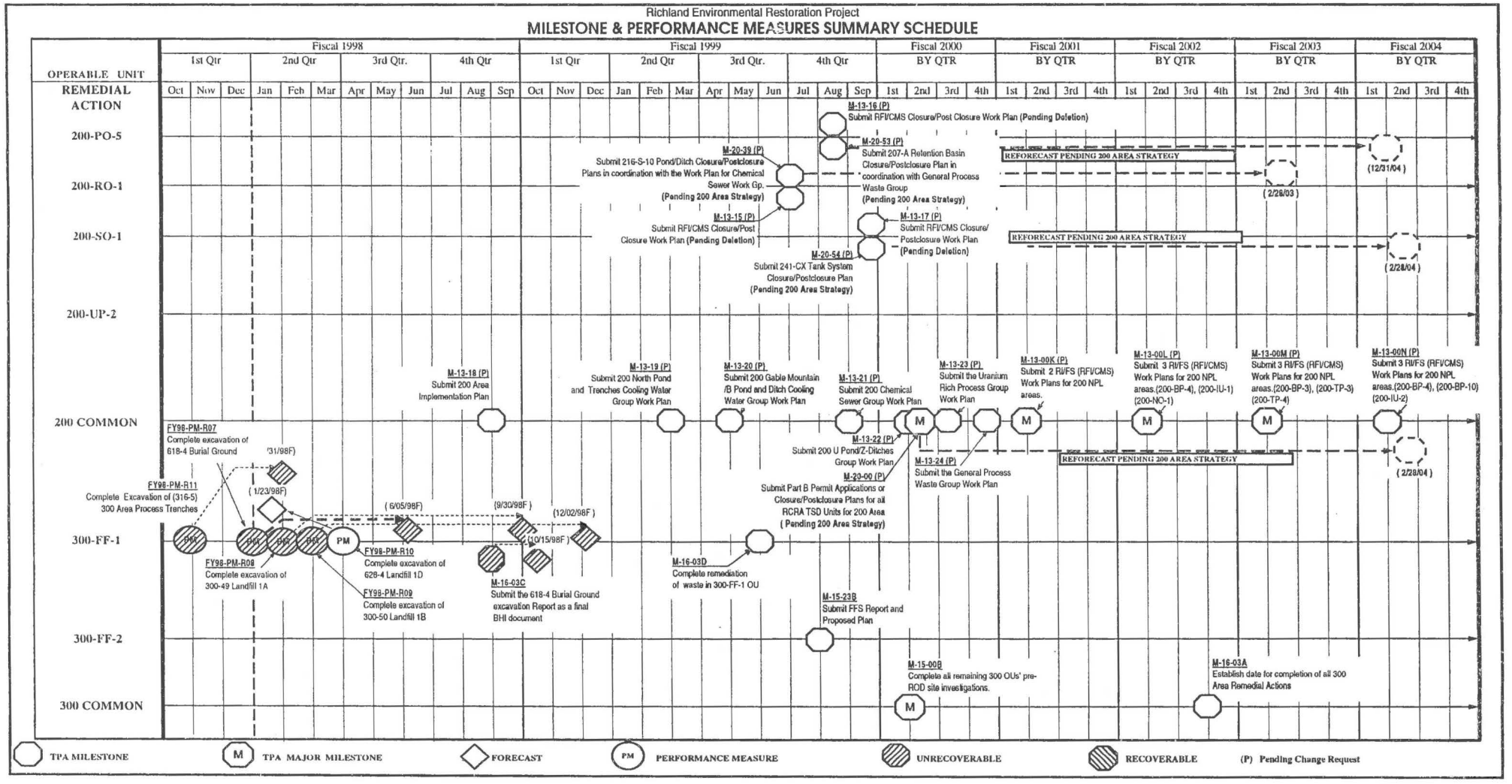
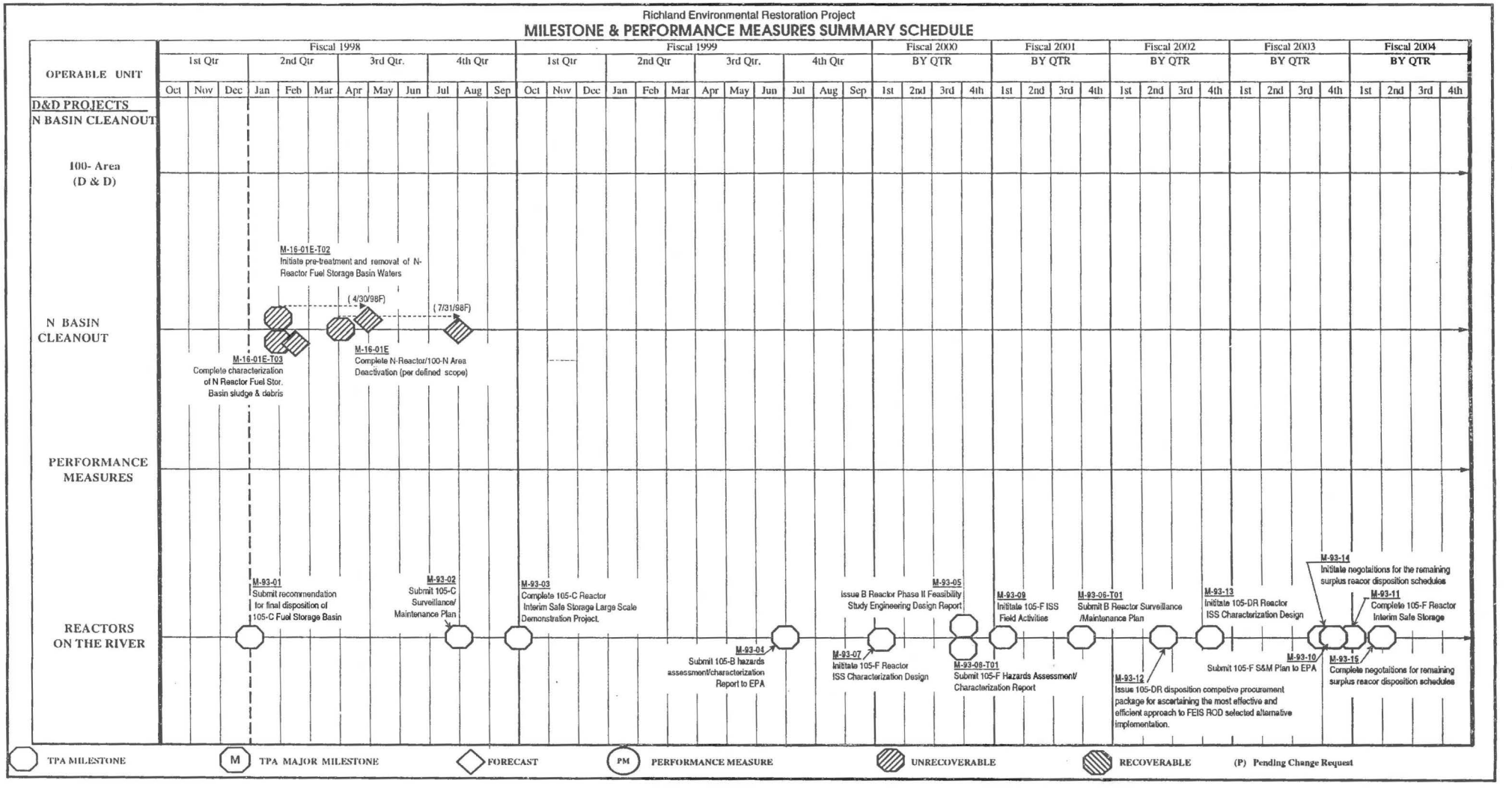
OPERABLE UNIT
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Fiscal 2003
Fiscal 2004
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1st 2nd 3rd 4th
GROUNDWATER
100-HR-3
M-16-06C
Submit 100-HR-3/100-KR-4
Performance Evaluation Report
100-KR-4
M-16-11
Begin system operations
M-16-06C
Submit 100-HR-3/100-KR-4
Performance Evaluation Report
CRCIA
M-15-80-T01
Submit a revised report of the draft
from M-15-80 the CRCIA Team
(2/14/98F)
200-ZP-1
200-ZP-2
200-UP-1
COMMON
M-24-00I
Install RCRA Groundwater
Monitoring wells at the rate of up to
0 to 50 in CY 1998 (if required)
M-24-00J
Install RCRA Groundwater
Monitoring wells at the rate of up to
0 to 50 in CY 1998 (if required)
M-24-00K
Install RCRA Groundwater Monitoring
wells at the rate of up to 0 to 50 in CY
1999 (if required)
M-24-00
Install RCRA Groundwater Monitoring
wells at the rate of up to 0 to 50 in CY
1999 (if required)
TPA MILESTONE
TPA MAJOR MILESTONE
FORECAST
PERFORMANCE MEASURE
UNRECOVERABLE
RECOVERABLE
(P) Pending Change Request


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Fiscal 2003
Fiscal 2004
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
OPERABLE UNIT
REMEDIAL ACTION
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1st 2nd 3rd 4th
200-PO-5
200-RO-1
200-SO-1
200-UP-2
200 COMMON
300-FF-1
300-FF-2
300 COMMON
M-13-16 (P)
Submit RFI/CMS Closure/Post Closure Work Plan (Pending Deletion)
M-20-53 (P)
Submit 207-A Retention Basin Closure/Postclosure Plan in coordination with General Process Waste Group (Pending 200 Area Strategy)
M-20-39 (P)
Submit 216-S-10 Pond/Ditch Closure/Postclosure Plans in coordination with the Work Plan for Chemical Sewer Work Gp. (Pending 200 Area Strategy)
M-13-15 (P)
Submit RFI/CMS Closure/Post Closure Work Plan (Pending Deletion)
M-13-17 (P)
Submit RFI/CMS Closure/ Postclosure Work Plan (Pending Deletion)
M-20-54 (P)
Submit 241-CX Tank System Closure/Postclosure Plan (Pending 200 Area Strategy)
REFORECAST PENDING 200 AREA STRATEGY
(12/31/04)
(2/28/03)
(2/28/04)
M-13-18 (P)
Submit 200 Area Implementation Plan
M-13-19 (P)
Submit 200 North Pond and Trenches Cooling Water Group Work Plan
M-13-20 (P)
Submit 200 Gable Mountain /B Pond and Ditch Cooling Water Group Work Plan
M-13-21 (P)
Submit 200 Chemical Sewer Group Work Plan
M-13-23 (P)
Submit the Uranium Rich Process Group Work Plan
M-13-00K (P)
Submit 2 RI/FS (RFI/CMS) Work Plans for 200 NPL areas.
M-13-00L (P)
Submit 3 RI/FS (RFI/CMS) Work Plans for 200 NPL areas.(200-BP-4), (200-IU-1) (200-NO-1)
M-13-00M (P)
Submit 3 RI/FS (RFI/CMS) Work Plans for 200 NPL areas.(200-BP-3), (200-TP-3) (200-TP-4)
M-13-00N (P)
Submit 3 RI/FS (RFI/CMS) Work Plans for 200 NPL areas.(200-BP-4), (200-BP-10) (200-IU-2)
M-13-22 (P)
Submit 200 U Pond/Z-Ditches Group Work Plan
M-13-24 (P)
Submit the General Process Waste Group Work Plan
M-20-00 (P)
Submit Part B Permit Applications or Closure/Postclosure Plans for all RCRA TSD Units for 200 Area (Pending 200 Area Strategy)
FY98-PM-R07
Complete excavation of 618-4 Burial Ground
(1/31/98F)
FY98-PM-R11
Complete Excavation of (316-5) 300 Area Process Trenches
(1/23/98F)
(6/05/98F)
(9/30/98F)
(12/02/98F)
(10/15/98F)
PM
FY98-PM-R08
Complete excavation of 300-49 Landfill 1A
FY98-PM-R10
Complete excavation of 628-4 Landfill 1D
FY98-PM-R09
Complete excavation of 300-50 Landfill 1B
M-16-03C
Submit the 618-4 Burial Ground excavation Report as a final BHI document
M-16-03D
Complete remediation of waste in 300-FF-1 OU
M-15-23B
Submit FFS Report and Proposed Plan
M-15-00B
Complete all remaining 300 OUs' pre-ROD site investigations.
M-16-03A
Establish date for completion of all 300 Area Remedial Actions
TPA MILESTONE
TPA MAJOR MILESTONE
FORECAST
PERFORMANCE MEASURE
UNRECOVERABLE
RECOVERABLE
(P) Pending Change Request


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Fiscal 2003
Fiscal 2004
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1st 2nd 3rd 4th
D&D PROJECTS
N BASIN CLEANOUT
100- Area (D & D)
N BASIN CLEANOUT
PERFORMANCE MEASURES
REACTORS ON THE RIVER
M-16-01E-T02
Initiate pre-treatment and removal of N-Reactor Fuel Storage Basin Waters
(4/30/98F)
(7/31/98F)
M-16-01E-T03
Complete characterization of N Reactor Fuel Stor. Basin sludge & debris
M-16-01E
Complete N-Reactor/100-N Area Deactivation (per defined scope)
M-93-01
Submit recommendation for final disposition of 105-C Fuel Storage Basin
M-93-02
Submit 105-C Surveillance/ Maintenance Plan
M-93-03
Complete 105-C Reactor Interim Safe Storage Large Scale Demonstration Project.
M-93-04
Submit 105-B hazards assessment/characterization Report to EPA
M-93-07
Initiate 105-F Reactor ISS Characterization Design
issue B Reactor Phase II Feasibility Study Engineering Design Report
M-93-05
M-93-08-T01
Submit 105-F Hazards Assessment/ Characterization Report
M-93-09
Initiate 105-F ISS Field Activities
M-93-06-T01
Submit B Reactor Surveillance /Maintenance Plan
M-93-12
Issue 105-DR disposition competive procurement package for ascertaining the most effective and efficient approach to FEIS ROD selected alternative implementation.
M-93-13
Initiate 105-DR Reactor ISS Characterization Design
M-93-10
Submit 105-F S&M Plan to EPA
M-93-14
Initiate negotaitions for the remaining surplus reacor disposition schedules
M-93-11
Complete 105-F Reactor Interim Safe Storage
M-93-15
Complete negotaitions for remaining surplus reacor disposition schedules
TPA MILESTONE
M
TPA MAJOR MILESTONE
FORECAST
PM
PERFORMANCE MEASURE
UNRECOVERABLE
RECOVERABLE
(P) Pending Change Request

Milestone M-24-00
RCRA Groundwater Wells

February 24, 1998

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS

- TPA M-24-00 Interim Change Control for CY 1998 milestones (M-24-98-01) prepared for ten RCRA wells
  - 8 wells required to replace network wells going dry
  - 2 new wells: one for detection and one for assessment monitoring
- Description of Work to initiate M-24-00 1998 well construction completed
- An engineering evaluation of the proposal to deepen existing 4-in. diameter wells performed
  - Recommended the wells be replaced with new wells
  - The risk and cost is too great to deepen existing wells
- Proposal to install 35 ft well screens submitted to Ecology

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS (cont)

- Completed RCRA Groundwater Quality Assessment reports for single shell tanks WMAs
  - T, TX-TY (1/30/98)
  - S-SX (1/30/98)
  - B-BX-BY (2/20/98)
- Well Decommissioning
  - 18 wells decommissioned since October, 1997
  - 4 of those were high-risk wells

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS

- Vadose-zone characterization requirements for new wells are nearly complete (TWRS/GW Project integrated effort)
- Revise groundwater monitoring plans for TSDs that will have new wells installed
- Start well construction in spring 1998 for M-24-00 wells
- Obtain Ecology approval of LLBG and LERF final status groundwater monitoring plans
- Decommission approximately one high-risk well per month

BUDGET/COST STATUS

- Well construction - Capital
  - No expenditures the past three months
  - Remaining capital budget, approximately $2,220K
- Well construction - Expense
  - TWRS is expected to provide $135K for expense costs for the 9 single shell tanks wells
  - No expenditures to date

Install 10 new RCRA Compliant wells.

ISSUES

- DQO process continues for Hanford Site consolidated groundwater monitoring strategy - expected to minimize number/location of existing and future monitoring wells
- Replacement wells, deepening, or alternative monitoring strategy must be considered for 1999 and beyond to maintain RCRA compliance

ISSUES (cont)

- Future RCRA groundwater monitoring compliance is at risk of becoming deficient
  - 21 RCRA wells projected to be dry in 1998 due to declining water levels
  - Wells will continue to go dry beyond 1998
  - Changes in flow direction will require revisions to RCRA networks and possible new wells
- Ten RCRA wells will be installed in CY 1998 to maintain groundwater monitoring compliance
  - 8 wells required to replace network wells going dry
  - 2 new wells: one for detection and one for assessment monitoring

Non-TPA Regulatory Issues

- Total of 30 wells to be decommissioned in FY98
  - 13 high-risk wells (2 of these are questionable)
  - 15 RCRA "high-river" wells
  - 2 non Operable Unit wells
  - Scheduled to be completed by end of June
- Budget for well decommissioning is approximately $250K for FY 1998
  - Does not include $203K carryover for 199-B-3-2
  - Budget expected to be expended in June
  - Less than the $2,050K requested at beginning of year

PUREX STABILIZATION PROJECT UPDATE

M-80 TRI-PARTY AGREEMENT MILESTONE

24 February 1998

Andrea

FUTURE M-80 TPA MILESTONES

NO.	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ECD
M-80	Complete PUREX and UO3 Plant's transition phase and initiate the surveillance & maintenance phase	July 1998	July 1998

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-00-T01	Issue DOE approved end point criteria for the U03 Plant	Dec. 1994	Dec. 1994
M-80-01	Complete deactivation of PUREX Plant R Cell	April 1995	April 1995
M-80-00-T02	Complete all U03 Plant transition activities and initiate Surveillance & Maintenance phase	June 1995	Jan. 1995
M-80-00-T03	Submit options and recommendations for final management of Tank 40 organic material to EPA and/or Ecology	June 1995	June 1995

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-02-T01	Submit proposed end point criteria for transition of PUREX	June 1995	June 1995
M-80-00-T04	Complete removal of concentrated (recovered) 203-A nitric acid at PUREX	June 1996	Dec. 1995
M-80-00-T05	Complete implementation of selected alternative for management of spent fuel from PUREX	Dec. 1996	Dec. 1995
M-80-03	Remove process waste solutions from Tanks D5 and E6	Jan. 1997	April 1995
M-80-02-T02	Submit PUREX Surveillance & Maintenance Plan	May 1996	May 1996

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-02	Submit the end point criteria and Surveillance & Maintenance Plan in support of the PUREX preclosure work plan	July 1996	July 1996
M-80-00-T07	Complete deactivation of the PUREX Plant sample gallery	June 1997	July 1996
M-80-04	Complete deactivation of the PUREX Plant U Cell/Fractionator	April 1997	Sept. 1996
M-80-05	Complete deactivation of the PUREX Plant aqueous makeup area	June 1997	July 1996

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-06	Complete deactivation of the PUREX Plant canyon	June 1997	July 1996
M-80-07	Complete deactivation of the PUREX Plant 203-A Area	April 1998	Nov. 1996
M-80-00-T06	Complete deactivation of the PUREX Plant 211-A Area	April 1997	April 1997
M-80-08	Document hazardous substances/dangerous wastes remaining within the PUREX Plant	July 1998	Aug. 1997

M-20 TPA MILESTONE COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-20-24A	Submit a PUREX preclosure work plan to EPA and Ecology	July 1996	July 1996

PROGRAM MANAGER'S ASSESSMENT

No longer prepared for the PUREX Project

SIGNIFICANT ACCOMPLISHMENTS

- Performed quarterly surveillance

SIGNIFICANT PLANNED ACTIONS

- Perform next quarterly surveillance
- Receive Ecology's approval of S&M Plan
- Develop MOA for turnover
- Complete M-80-00 Milestones

Bob Julian - If revisions requ are made - then he'll sign.

BUDGET/COST STATUS

EXPENSE COST/SCHEDULE PERFORMANCE
($ DOLLARS IN THOUSANDS)

FY 1998 Budget	589
FYTD	185
Actual	72
Schedule Variance	0
Cost Variance	<113>

NON-TPA REGULATORY ISSUES/ POTENTIAL IMPACT TO TPA

- None

IAMIT MILESTONE STATUS
M-82-00

RL Presenter: D. T. Evans George Reddick

Contractor Milestone Manager: R. E. Heineman, Jr.

Fluor Daniel Program Manager: L. J. Olguin

RL Division Director: J. E. Mecca

24 February 1998

TRANSITION MILESTONES COMPLETED

- M-82-01 - Submit End Point Criteria for Transition of B Plant - June 1996 (Completed June 1996)
- M-82-02 - Complete Deactivation of the B Plant 211-B Area - January 1997 (Completed December 1996)
- M-82-03 - Complete Removal of Organic Solvent Waste from the B Plant Canyon - June 1997 (Completed March 1997)
- M-82-04 - Submit B Plant Surveillance and Maintenance Plan - June 1997 (Completed June 1997)
- M-82-06 - Complete Deactivation of the B Plant Liquid Effluents Area - May 1998 (Completed - December 1997)
- M-82-08 - Complete Disposition of Organic Solvent Waste - September 1998 (Completed - February 1998)

TRANSITION MILESTONE STATUS

- M-82-05 - Complete Deactivation of the B Plant Aqueous Makeup Area - May 1998 (On Schedule)
- M-82-07 - Document Hazardous Substances/Dangerous Wastes Remaining within B Plant - June 1998 (On Schedule)
- M-82-09 - Complete Decoupling of WESF from B Plant - December 1998 (Ahead of Schedule - September 1998)
- M-20-21A - Submit a B Plant Preclosure Work Plan to Ecology - March 1999 (Ahead of Schedule - March 1998)
- M-82-10 - Complete Deactivation of the B Plant Canyon - September 1999 (Ahead of Schedule - September 1998)
- M-82-10-T01 - Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation system for S&M Phase (Project W-059) - September 1999 (Ahead of Schedule - September 1998)

RL PROGRAM MANAGER'S ASSESSMENT OF CONTRACTOR PERFORMANCE

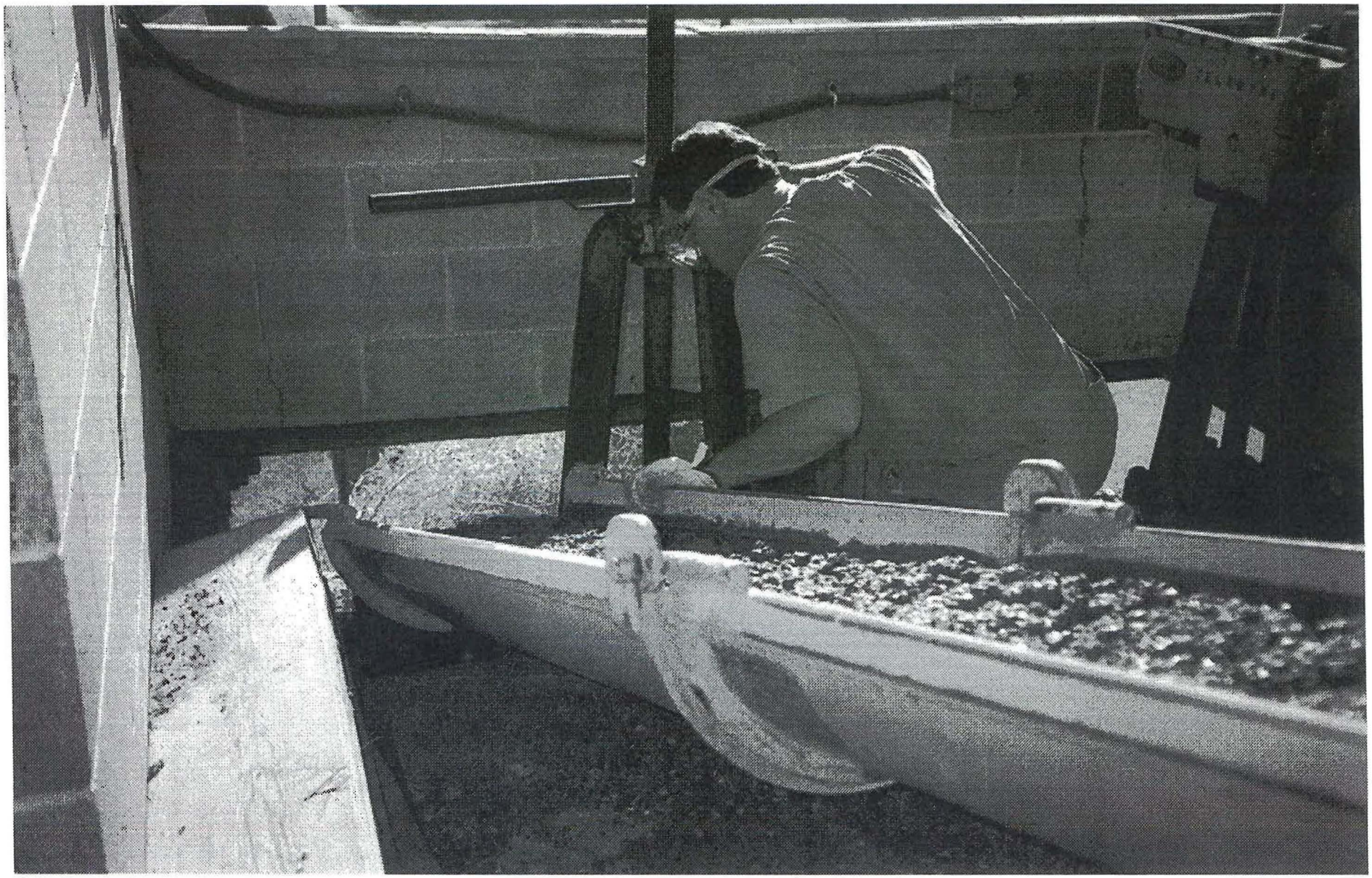
FDH/BWHC continue to make excellent progress towards the "breakthrough" project RL milestone date of September 30, 1998. All TPA milestones associated with this accelerated project are being met ahead of schedule. It is anticipated that this project will be accomplished by the September 1998 milestone, barring any unplanned FY98 funding constraints.

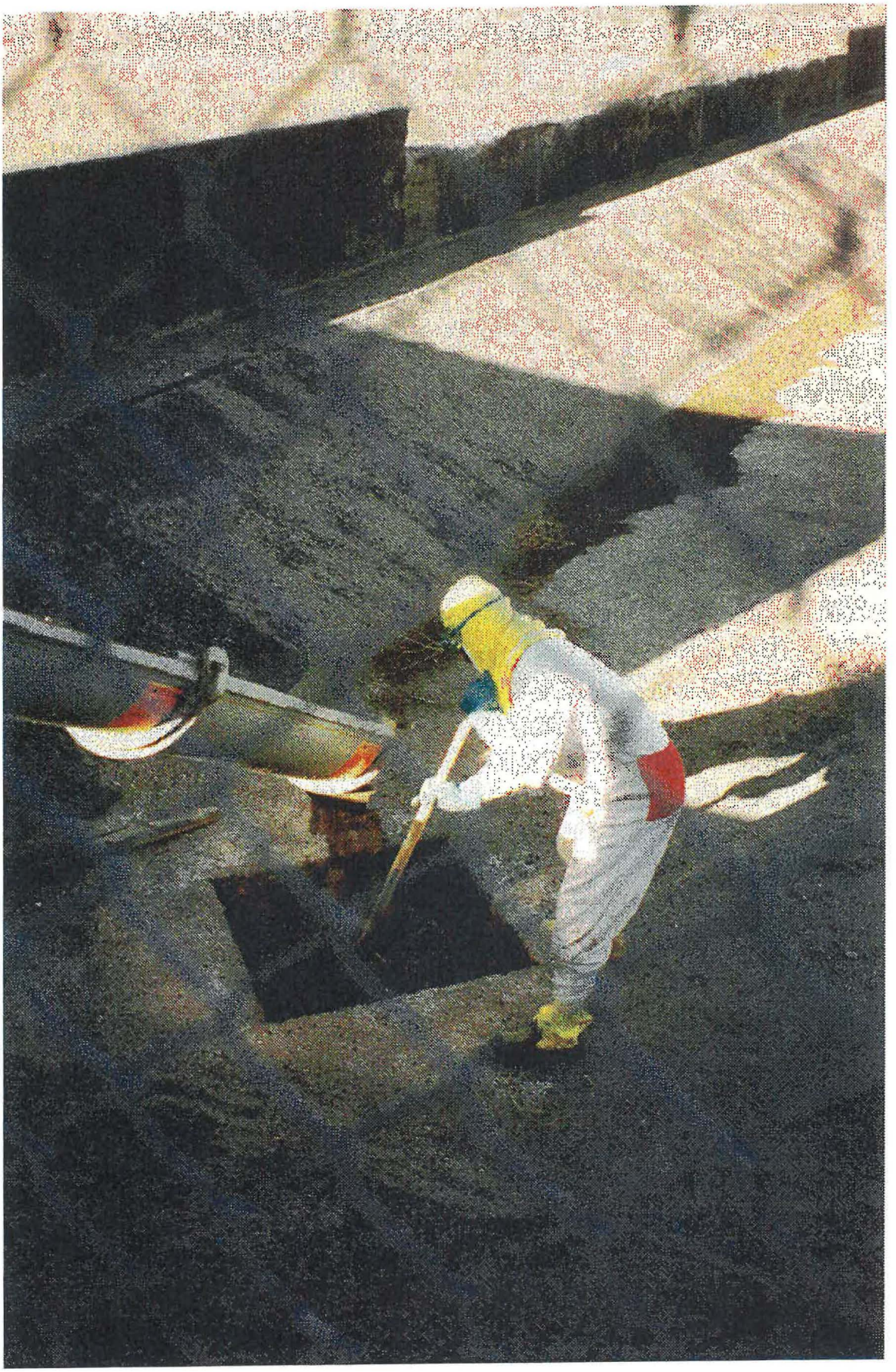
SIGNIFICANT ACCOMPLISHMENTS AND PROGRESS (Past 3 mo.)

- **M-82-06** - Complete Deactivation of the B Plant Liquid Effluents Area - May 1998 December?
  - All End Points/Work Are Complete
- End Point Document Approved by Ecology
- **M-82-08** - Complete Disposition of Organic Solvent Waste - September 1998
  - Organic Destruction is Complete

SIGNIFICANT ACCOMPLISHMENTS AND PROGRESS (Past 3 mo.) (Cont.)

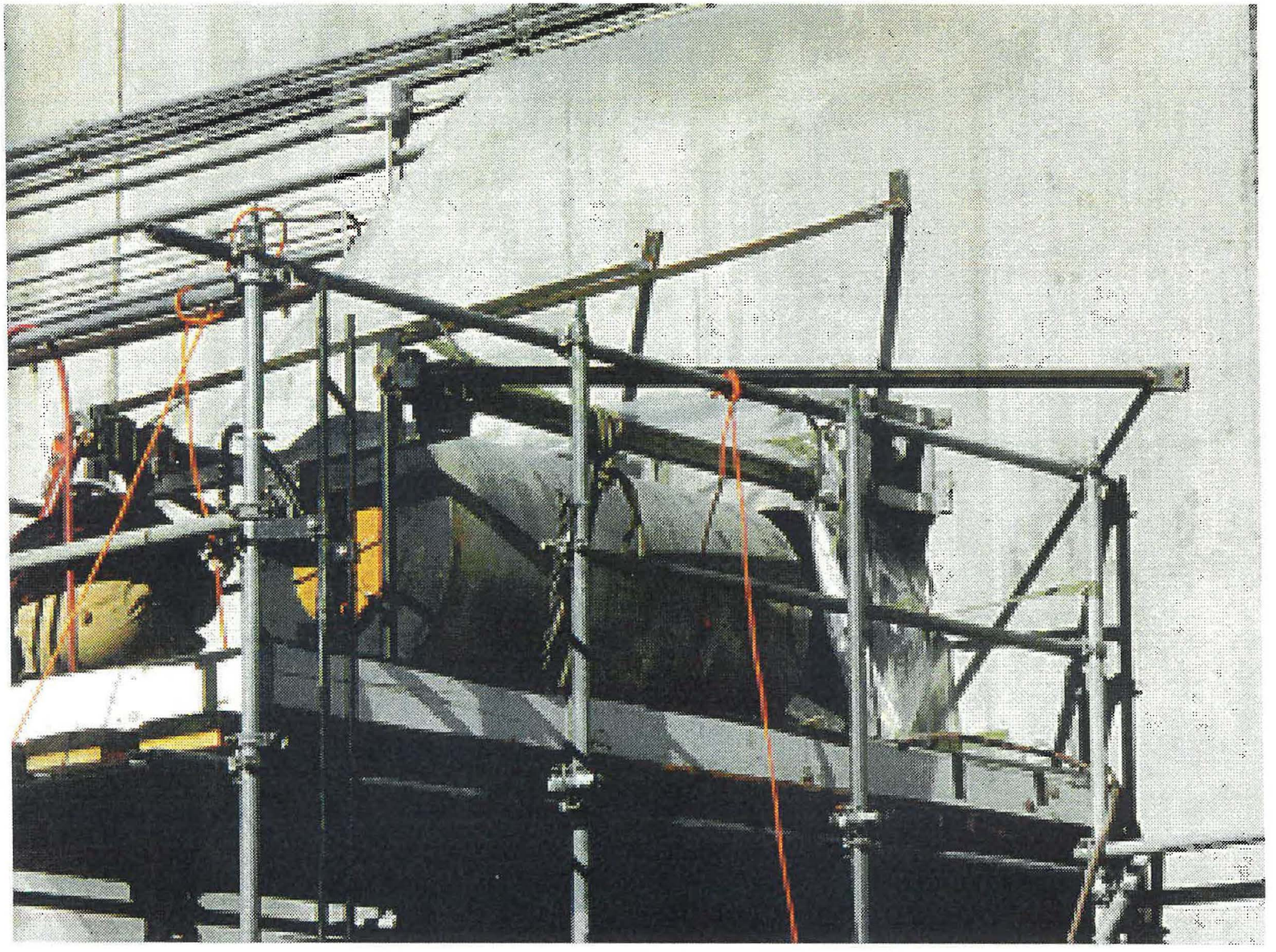
- **M-82-10** - Canyon Deactivation
  - Completed canyon decontamination
- **M-82-10-T01** - W-059 Project
  - Fabricated cell 10 cover block
  - Fabricated passive vent duct and other items
  - Procuring other necessary equipment
- **M-20-21A** - Complete Draft of B Plant Pre Closure Work Plan and Submit to Ecology (March 1998)
  - Comments resolved and being transmitted to Ecology





Future Home of
B PLANT
ORGANIC

2912
RADIOACTIVE
WHCU 008 175 3
US 2276
TARE
MAX PAYLOAD
MAX GROSS
TOXIC
HAZARDOUS WASTE
CAUTION RADIOACTIVE MATERIAL



SIGNIFICANT PLANNED ACTIONS (Next 6 mo.)

- **M-82-05 -** Complete B Plant AMU (May 1998)
- **M-20-21A** - Complete Draft of B Plant Pre-Closure Work Plan & Submit to Ecology (March 1999)
  - Document being submitted to Ecology by March 1998
- **M-82-09** - Complete Decoupling of WESF from B Plant (December 1998)
  - Decoupling expected to be complete by June 1998

BUDGET/COST STATUS

		FY98**	CV	SV
B Plant Surveillance/Maintenance	BCWS	$ 3,069.2K		
	BCWP	$ 3,036.4K		
	ACWP	$ 2,846.5K	189.9K	(32.8K)
	BAC	$ 7,891.8K		
B Plant Deactivation	BCWS	$ 5,610.2K	(3.6K)	(1,260.9K)*
(Including W-059 & WESF Hot Cell/EIX Work)	BCWP	$ 4,349.3K		
	ACWP	$ 4,352.9K		
	BAC	$15,619.9K		

*Schedule Variance (SV) (1,260.9K) - Negative schedule variance does not accurately reflect rearranging and rebaselining three major projects currently showing behind schedule (W-059, LLLW, and EMIX). Approval of change requests in progress will accurately reflect progress. Completions are on schedule with established milestones and ahead of related TPA milestones.

** Through the end of January

ISSUES

- **General**
  - None
- **Submit B Plant Surveillance and Maintenance Plan**
  - None
- **Submit B Plant Preclosure Work Plan**
  - None
- **Complete Decoupling of WESF From B Plant**
  - None
- **Complete B Plant AMU**
  - None

NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

- None

IAMIT Meeting February 24, 1998

Tri-Party Agreement Milestone

Status Report

300 Area Stabilization Project

Milestones

TPA-M-89 & TPA M-92

ECOLOGY Program Manager - JJ Wallace
DOE-RL Program Manager - DW Templeton
FDH Environmental Sponsor - AM Hopkins

IAMIT Meeting February 24, 1998

Tri-Party Agreement Milestone

Status Report

Status Report Format

TPA-M-89 Status

TPA-M-89 Overview
Program Managers Assessment
Major Accomplishments
Progress Last 6 Months
Planned Progress Next 6 Months
Baseline Performance and Variance Analysis
Issues/Concerns

TPA-M-92 Status

TPA-M-92 Overview
Program Managers Assessment
Major Accomplishments
Progress Last 6 Months
Planned Progress Next 6 Months
Baseline Performance and Variance Analysis
Issues/Concerns

Additional Information

Title	Contact	Telephone (509)	Fax (509)
ECOLOGY Program Manager	JJ Wallace	736-3019	736-3030
DOE-RL Program Manager	DW Templeton	373-2966	376-0695
DOE-RL Project Engineer	DC Langstaff	376-5580	376-0695
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

IAMIT Meeting February 24, 1998

Tri-Party Agreement Milestone M-89

Status Report

MILESTONE OVERVIEW

Milestone M-89-00 Interim Milestones and Target Dates

Milestone	Description	Target Date
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.	TBD*
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
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
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.	5/31/99
M-89-03	Achieve compliance with interim status facility standards at non-permitted 324 Building MW units.	3/31/95
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
M-89-05	Complete 324 Facility SCW assessment in support of 324 closure.	June 1998
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

*Pending completion and approval of the REC/HLV/LLV Closure Plan

Program Managers Assessment

Since last quarterly review

Environmental - Good

The 324 REC/HLV/LLV contain areas that have been identified to be a nonpermitted TSD unit. Therefore, completion of activities that reduce overall risk to the environment and maintain compliance with the M-89 agreements improves the overall facility compliance status. Only limited progress was made on the preparatory activities associated with equipment removal and dispersible containerization.

Deficiencies to the 324 Building REC/HLV/LLV Closure Plan submitted to Ecology were received and are being addressed. A Closure Plan team was assembled, with members from PHMC, RL, and Ecology; based on this approach, significant progress is being made. The revised closure plan will be submitted to Ecology by March 31, 1998. A draft of the Special Case Waste Study required by TPA Milestone M-89-05 was drafted and reviewed by Ecology, and Ecology comments are being incorporated into a final document.

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. Several issues were resolved during this period, including resolution of the 324 Fan USQ and resolution of the B-Cell combustible loading effect on hot work. The Tank 113 inventory was evaluated in a USQ, and a decision was made to remove the 1-B rack until additional analysis on Tank 113 can be completed. Management has pursued the resolution of these issues and development of interdisciplinary review teams to ensure that work is conducted safely and in a manner protective to the public and environment.

Project Summary - Satisfactory

Significant roadblocks were encountered during the past six months that impact progress toward the completion of TPA milestone 89-02. Corrective action management has included the development of alternative strategies to the planned work schedule to minimize these effects. These roadblocks include:

•**Fire Hazards Analysis** -The new Fire Hazard Analysis (FHA) presented a "Major Fire" scenario that was inconsistent with the 324 Building Safety Analysis Report (SAR). Resolution was reached through modification to the main exhaust fans and through changes to combusible material management procedures.

•**Dispersible Materials Unreviewed Safety Question** - Size reduction of Tank 113, within the 1-A rack, potentially exposes dispersible material in excess of the radioactive material inventory specified in the 324 Building SAR. Management revised the order of rack reduction to allow resolution of this issue.

• **Equipment Reliability** - Equipment reliability in the B-Cell hostile environment continues to be an issue. FY97 was primarily dedicated to restoring crane capabilities and troubleshooting newly installed cranes (see Issues).

Cost - Good

The project has generated some favorable cost savings in preparing and as result of Special Case Waste Assessment. In addition the cost of revising the 324 REC/HLV/LLV Closure Plan has been absorbed by the project.

Schedule - Unsatisfactory

Although completion of the M-89-05 is ahead of schedule and completion of the revised 324 REC/HLV/LLV Closure Plan is on schedule, M-89-02 remains behind schedule (currently nine months with 15 months remaining). To complete TPA commitments on schedule, dramatic increases in actual and planned productivity will be required.

Major Accomplishments

in last three months

M-89-01 **Complete.**

M-89-02

•Clamshelling of the floor in front of the 1-A rack was **completed** and dispersibles collected.

•The 1-A Rack was pulled from the B-Cell wall, stabilized, and shield plugs were installed.

•Two Unreviewed Safety Questions related to a 324 Building draft Fire Hazard Analysis report have been resolved.

•A USQ evaluation for Tank 113 size reduction was **completed**.

• Commenced three-shift operations. Initial focus has been on training less experienced crew members.

M-89-03 **Complete.**

M-89-04 **Complete.**

M-89-05

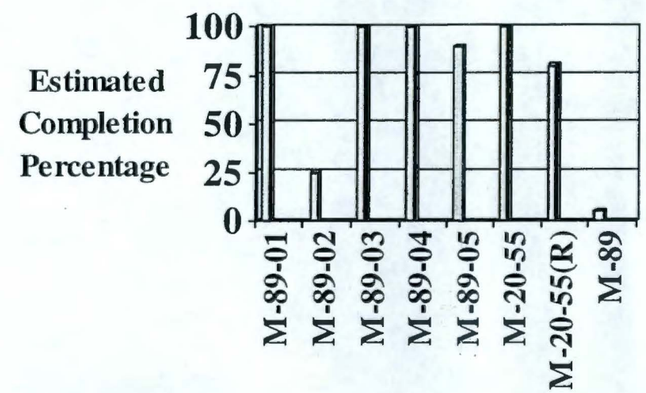
•The Special Case Waste Study was presented to FDH, DOE-RL, and Ecology. Ecology provided comments including concurrence with the waste disposition conclusions. A strategy to closeout Ecology comments has been submitted and accepted.

M-20-55

•A **complete** second revision to the Closure plan is currently underway. FDH, DOE-RL, and Ecology are working closely on this revision. This strategy has proven to be effective.

•Seven of eight chapters have been modified, resulting in the preliminary resolution of 401 of the 442 comments presented by Ecology.

Milestone M-89 Completion Status



Progress Last Six Months

M-89-01 **Completed** prior to reporting period.

M-89-02

•Tank-119 was 80% size-reduced and packaged for removal to burial.

•Size reduction and removal of in-cell equipment was delayed during the last six months to address Fire Hazard Analysis issues. A white paper was submitted in response to a potential Unreviewed Safety Question (USQ)

- Administrative and operational procedures were modified to enhance the Fire Hazards Protection Program required by Operations Safety Requirement (OSR) 3.2.
- The administrative restriction on B-Cell specific 'hot work' (plasma arc cutting torch) will be lifted (see Issues) pending completion of modifications in cell.

•Due to the suspension of hot work activities, focus on cleanup shifted to removing equipment racks from wall in preparation for size reduction.

- The 1-A rack was removed from the cell wall and positioned. After the rack was moved, shield plugs were inserted in wall penetrations between B-Cell and the airlock/pipe trench.
- Debris and dispersible material from the floor was collected. Approximately 10ft^3 of dispersible material separated from the debris.
- Preparations for removal of the 1-B rack from the wall were **completed**, including removal of piping from the pipe trench.
- Three-shift operations were started in January 1998 in preparation for a waste shipment campaign and resumption of size reduction of B-Cell equipment.
- The grout delivery system was overhauled to ensure trouble-free operation during the waste removal campaign.

M-89-03 **Completed** prior to reporting period.

M-89-04 **Completed** prior to reporting period.

M-89-05

•The Special Case Waste (SCW) Study for the 324 and 327 Facilities (over 95% of the SCW covered in M-92-13 through -16) was presented to FDH, DOE-RL and Ecology in December 1997. The study conclusions gained general concurrence and included:

- 324 Spent Nuclear Fuel would be properly packed for storage at an onsite SNF Interim Storage Area (ISA) pending final disposition
- Pieces and fragments of fuel (324 and 327) would be managed consistent with prior shipments as RH-TRU and stored at the TRU pad pending final disposition.
- Cesium capsules/nordian Capsules and remaining inventory of "pure" cesium powder and pellets will be packaged for acceptance in the WESF storage basin pending final disposition.
- B-Cell dispersibles, tank heels, and metal filters would be packaged in shielded containers for storage in the PUREX tunnels pending final disposition (in addition IX column media in 327 basin would be packaged for tunnel acceptance).
- Waste Buckets in 327 hot-cells would be packaged and managed consistent with prior shipments at the LLBG.
- SCW miscellaneous items in 324/327 were addressed and disposition options were chosen.

•DOE received comments form Ecology and a containment disposition strategy was submitted and accepted.

•Milestone is currently projecting early completion.

M-20-55

•On September 30, Ecology responded to the May 1997 *324 Building REC/HLV/LLV Closure Plan* with 442 comments, requesting major revisions and additions.

- Responses are being prepared, with a final due date of March31, 1998
- Currently, nearly 75 percent of the Notice of Deficiency comments have been preliminarily accepted.
- Cooperation and commitment by the Closure Plan Team (including FDH/DOE-RL/Ecology) is **outstanding** and is reflected in the substantial progress that has been made.

Planned Progress Next Six Months

M-89-01 **Complete.**

M-89-02

•A low-level waste removal campaign will be initiated in B-Cell to ship grout containers (radioactive) to the LLW burial ground for disposition.

•The 1-B rack will be removed from the wall and shield plugs installed in penetrations between B-Cell and the airlock/pipe trench.

•Size reduction of the 1-B rack will begin after removal of sufficient grout containers to make room for the size reduction activities.

•Dispersible material will be collected from the floor under the 1-B rack. This material, as well as material collected previously from under the 1-A rack will be packaged in engineering containers for future disposal or storage in the PUREX tunnels.

•Preparations will be initiated and size reduction initiated for removing the 2-A rack (stretch goals and incentives are in place to complete 2-A rack removal, which is required to recover the TPA schedule).

M-89-03 **Complete.**

M-89-04 **Complete.**

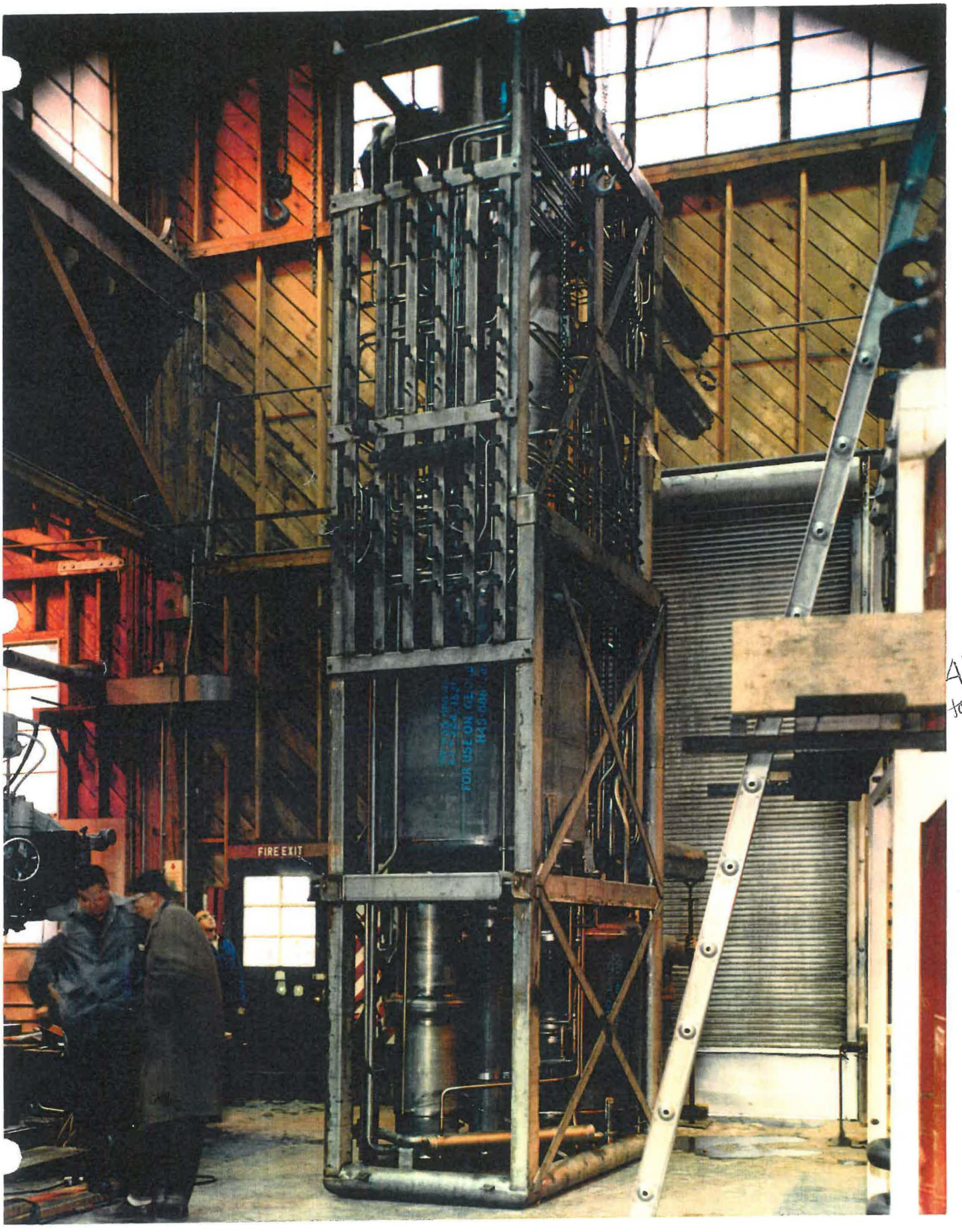
M-89-05

•The Special Case Waste Study will be completed, reviewed, and final options will be officially established as the chosen pathway for disposition of the 324/327 Buildings' Special Case Waste, and the study will be issued.

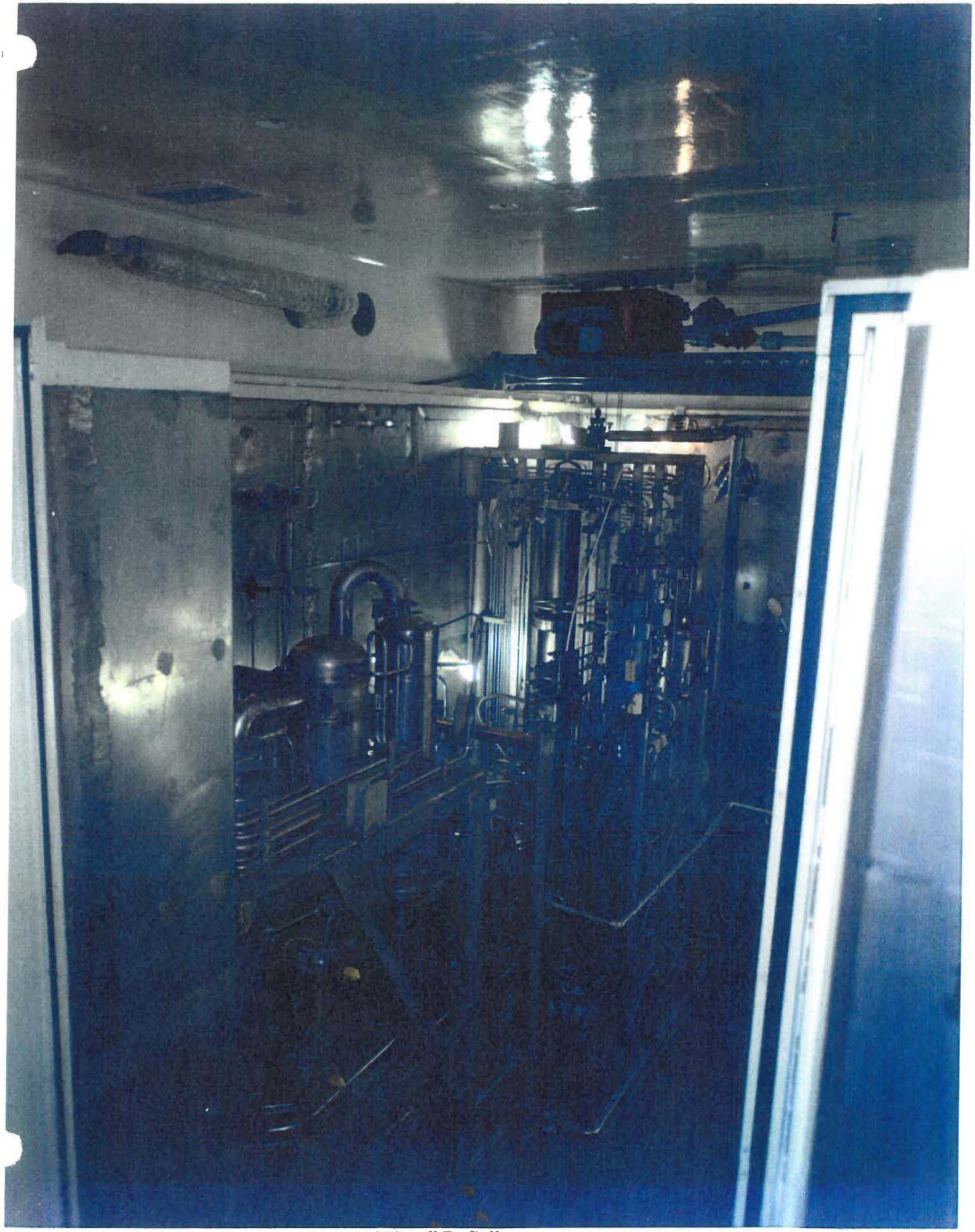
•M-89-05 will be completed ahead of schedule.

M-20-55

•All closure plan discrepancies identified by Washington State Department of Ecology will be addressed, and a final draft of the proposed closure plan will be submitted to Ecology by March 31, 1998.



B-Cell Rack 1A (prior to installation)



"Clean" B-Cell

- Stainless Steel Liner
- Ceiling ~ 30 ft. high

Issues

Issue: Completion of TPA commitments will require a dramatic increase in productivity in FY98. The B-Cell Project has significant challenges to overcome in order to meet the TPA milestone M-89-02, May 1999, *Complete Removal of Equipment and Mixed Waste from B-Cell.*

- **Impact** - Failure to meet the TPA commitments.
- **Status/Corrective Actions** - BWHC will continue to evaluate methods/analysis required to accelerate activities to meet the overall project schedule.

Issue: Although the B-Cell combustible materials inventory has been established, size reduction activities continue to be on hold in B-Cell.

- **Impact** - The project continues to be behind schedule by approximately nine months, and the completion of the milestone is at risk. Failure to meet the TPA commitments could result in regulatory punitive action.
- **Status/Corrective Action** - Hot work will resume when in-cell service lines have been moved to the north window and some combustible material is transported to the airlock or grouted. Management is working to identify and complete items such as JCS work packages, engineering drawings, and Enhanced ALARA Committee reviews ahead of time to prevent delays to in-cell work scope.

Issue: B-Cell has 1.5 million Curies of dispersible material on the cell floor. Tank 113 has been identified as containing an additional 1.5 million Curies of potentially dispersible material. The planned method for removing Tank 113 (part of the 1A rack removal task) is size reduction, packaging and disposal of the tank. Cutting open Tank 113 would expose potentially dispersible material in excess of the radioactive material inventory specified in the 324 Building SAR.

- **Impact** - Size reduction of Tank 113 cannot begin until this issue is resolved. The need for an addendum to the 324 Facility SAR is required.
- **Status/Corrective Action** - Alternative methods for tank disposition (i.e., remove in one piece) have been reviewed and are not effective. A USQD evaluation for the Tank 113 has been **completed**. The facility PRC has accepted the evaluation results requiring a SAR/TSR change. Additionally, the B-Cell project baseline is being revised to reflect size reduction and removal of the 1-B and 2-A racks prior to the 1-A rack. This will allow time to update the 324 SAR while not affecting progress towards TPA Milestone 89-02.

Issue: Equipment reliability in the B-Cell radiological environment continues to be an issue. Hardware, such as the in-cell manipulators, cranes, cameras, windows, and cell doors deteriorate in the hot cell environment. All in-cell activities are done remotely and require operational systems. Maintenance and repair of these systems are complex due to the high radiological dose.

- **Impact** - FY97 was primarily dedicated to restoring crane capabilities and troubleshooting newly installed cranes. System downtime creates delays to critical path activities.
- **Corrective Action** - Equipment and systems will be maintained and inspected as required, based on scheduled maintenance and failures. A new cell crane was installed in FY97. A contract with the crane manufacturer is now in place to allow for on-call service. In addition, a cell window maintenance contract is in place. Spare cameras and manipulators are in inventory to allow for equipment replacement.

IAMIT Meeting February 24, 1998

Tri-Party Agreement Milestone M-92

Status Report

1.0 MILESTONE OVERVIEW

Milestone M-92-00 Interim Milestones and Target Dates

Milestone	Description	Target Date
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
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.	December 2009
M-92-02	Submit Hanford Site Cs/Sr Project Management Plan (PMP) to Ecology pursuant to Agreement Action Plan, Section 11.5.	September 1997
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.	December 1997
M-92-04	Complete transfer of all 300 Area Cs/Sr to WESF and/or an approved storage location.	December 1998
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
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).	September 2006
M-92-13	Submit 300 Area SCW PMP to Ecology pursuant to Agreement Action Plan, Section 11.5.	September 2000
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.	September 2002
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.	September 2004
M-92-16	Complete removal and transfer and initiate storage of Phase III 300 Area SCW and materials.	September 2006

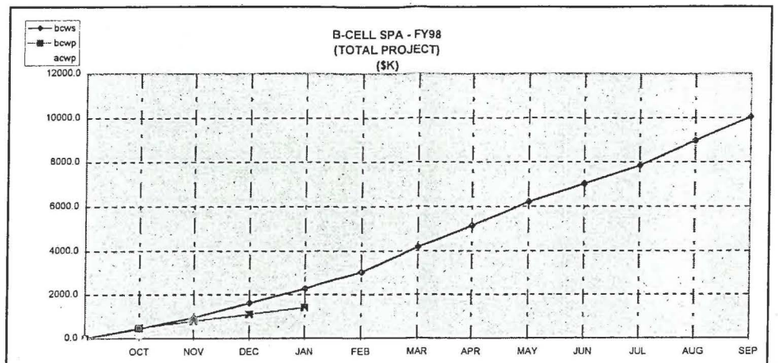
Baseline Performance and Variance Analysis

FYTD Cost Variance (through January 1998) - $177K

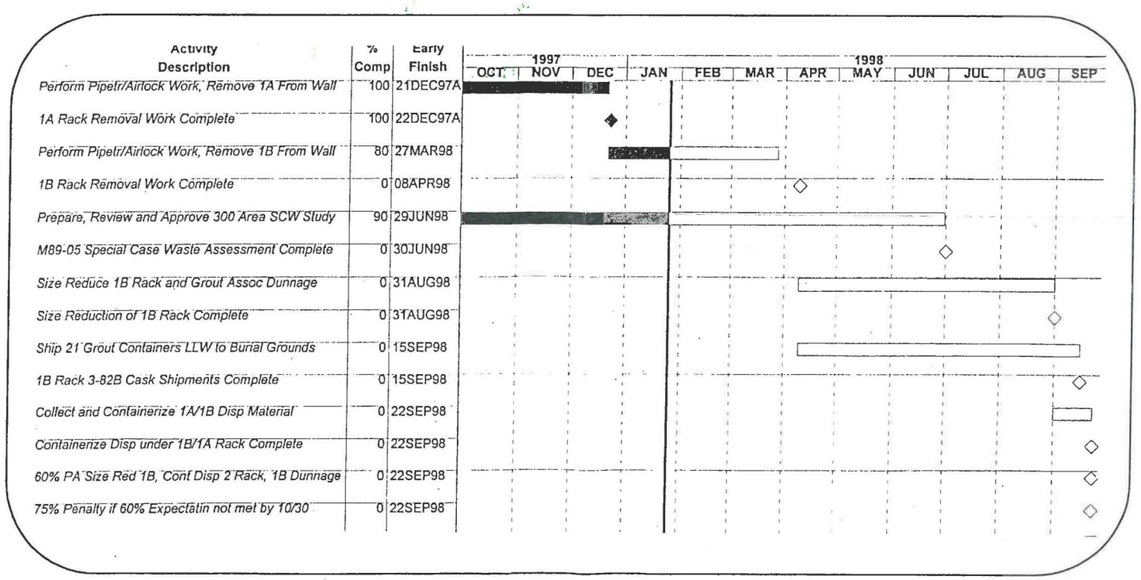
•**Summary Variance Analysis** - Positive cost variance primarily associated with early completion of the M-89-05 Special Case Waste Study. Costs are underspent in B-Cell cleanout activities as cutting operations have not yet commenced.
•**Impact** - n/a
•**Corrective Action** - Underruns are being used to respond to the Ecology comments to the revised closure plan (M-20-55) and the final closure plan, which is unfunded in FY98.

FYTD Schedule Variance (through January 1998) - <870K>

•**Summary Variance Analysis** - Negative schedule variance due primarily the result of the FHA and equipment failure impacts (crane) on the rack size reduction activities. In addition, the SCW implementation strategy has changed from the baseline (new pad at the Central Waste Complex) to the re-opening of the PUREX tunnels, based on the results of the SCW study. Therefore, the implementation of the baseline strategy has not proceeded as scheduled.
•**Impact** - inability to initiate size reduction activities has placed the TPA milestone M-89-02 in jeopardy. Implementation of the SCW new path forward can meet the M-89-02 requirements.
•**Corrective Action** - Initiation of 'hot work' is being pursued while maintaining an adequate safety basis. Schedule changes have been made to reduce the impact of the potential Tank 113 USQ issue. A baseline change request will be submitted as part of the final *324/327 Deactivation Project Management Plan* to reflect these changes.



		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	monthly	437.3	512.3	658.2	662.8	754.8	1147.9	958.2	1072.9	812.5	830.6	1113.8	1055.8
	cumulative	437.3	949.6	1607.8	2270.6	3025.3	4173.2	5131.4	6204.3	7016.8	7847.4	8961.2	10017.0
BCWP	monthly	475.5	306.3	312.5	306.5								
	cumulative	475.5	781.8	1094.3	1400.8								
ACWP	monthly	123.0	425.4	332.9	342.3								
	cumulative	123.0	548.4	881.3	1223.6								
SV	monthly	38.2	-206.0	-345.7	-356.3								
	cumulative	38.2	-167.8	-513.5	-869.8								
CV	monthly	352.5	-119.1	-20.4	-35.8								
	cumulative	352.5	233.4	213.0	177.2								



Program Managers Assessment

Since last quarterly review

Environmental - Excellent

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

Safety - Excellent

Proactive actions have been taken on all potential safety issues, including the seven capsules requiring overpacks (no outstanding storage or transportation issues exist due to the Quality Assurance discrepancy of the material) and the interim safety basis issue for UO3 storage pad (currently pursing evaluation and analysis associated with the Unreviewed Safety Question).

Air issues
USQ

Project Summary - Good

The near-term milestones are being **completed** on and ahead of schedule. Significant progress was made in the transfer of more than 8.0 million Curies associated with the Special Case Waste from the 300 Area to compliant storage in the 200 Area.

This included:
•Moving vitrified isotopic heat sources (Federal Republic of Germany canisters) from 324 Building storage to a specially-designed storage facility in the Central Waste Complex at 200 West Area
•Removal of fuel pins and pieces (five cask shipments)
•Cesium capsules stored in the 327 Building basin (13) for packaging/ overpacking (16 overpacked) and subsequent storage at 200 East/West facilities.

However, seven of the overpacked cesium capsules will require shipment to the 324 Building for replacement of overpacks, due to a Quality Assurance issue associated with the overpack materials. In addition, overall M-92 coordination efforts, while ongoing, needs to be solidified.

Cost - Satisfactory

Negative cost variances have been experienced in association with the cesium overpack and Federal Republic of Germany log removal and storage projects. Both projects were transitioned in progress to the PHMC and planning did not anticipate some of the project requirements that would be encountered on the nonroutine/first-time activities to be completed.

However, some of the Milestone M-92 activities are being **completed** within budget (327 Legacy Waste Buckets, PNNL Special Case Waste Inventory Assessment, Unirradiated Uranium Planning, and 324 Cesium Powder and Pellet Removal Project), and some activities are being absorbed into the baseline (preplanning for M-92-13, including the Memorandum of Agreement and Project Management Plan).

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.

However, overall M-92 coordination efforts, while ongoing, need to be solidified.

Major Accomplishments

in last three months

M-92-00 Summary milestone.

M-92-01 Summary milestone.

M-92-02 **Complete**.

M-92-03 **Complete**.

M-92-04

•**Completed** transfer of 13 cesium capsules from 327 Facility to 324 Facility, and three capsules from WESF to 324 Facility for repackaging. Sixteen capsules were repackaged and transferred to WESF on November 13, 1997. Removed over 495,000 Curies from water basin storage in 327 Facility.

M-92-05 Update covered in TWRS report.

M-92-12

•**Completed** the draft of *324/327 Special Case Waste Assessment and Disposition Alternatives Analysis* (HNF-SD-1730). Study proposes storage location for over 95 percent of the 300 Area waste currently identified as Special Case Waste (not including UU). (UU) Unirradiated Uranium

M-92-13

Completed the draft of *324/327 Special Case Waste Assessment and Disposition Alternatives Analysis* (HNF-SD-1730). Contains the bulk of the information required in the Project Management Plan for 324/327 Special Case Waste (over 95 percent of the total 300 Area inventory, not including UU).

M-92-14, -15, -16

•**Completed** shipment of 34 isotopic heat source vitrified containers (Federal Republic of Germany logs) from 324 Facility to the newly constructed interim storage site in the 200 Area. Removed over 8.0 million Curies from the 324 Building A-Cell storage.

HNF-1730, Rev. 0

324/327 Facilities Special-Case Waste Assessment and Disposition Alternatives Analysis

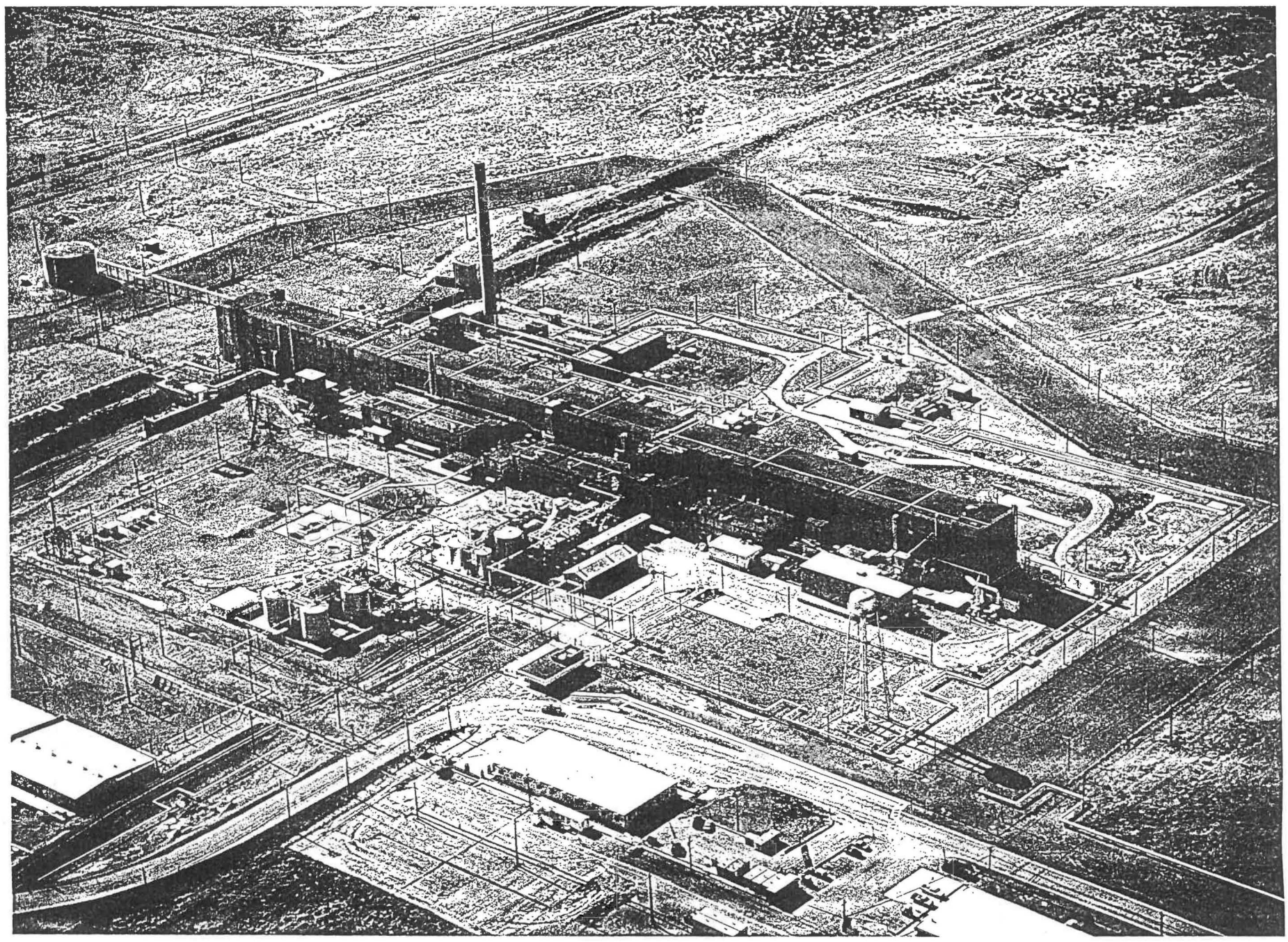
October 1997

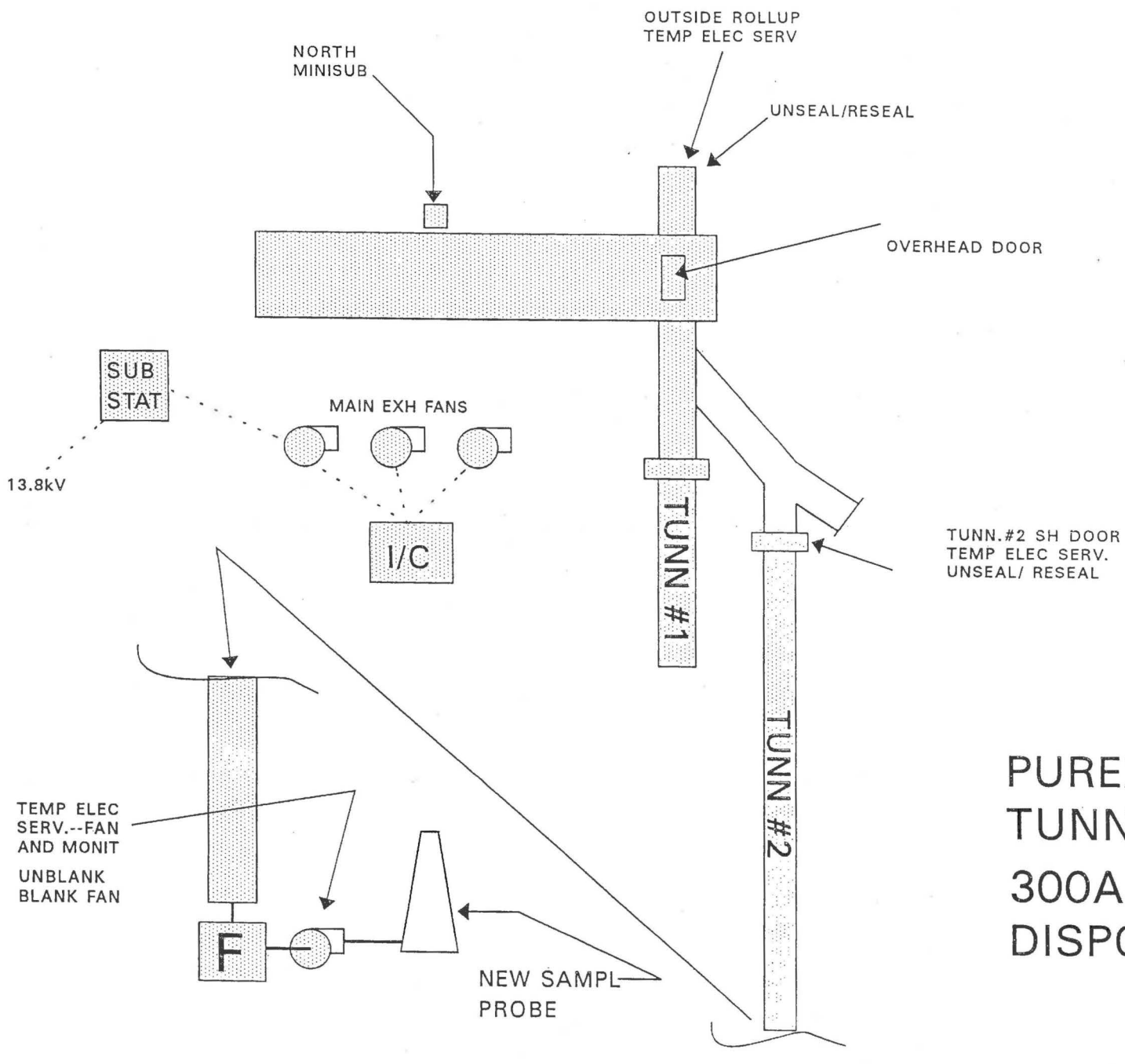
prepared for:

United States Department of Energy - Richland Operations Office
Richland, Washington

prepared by:

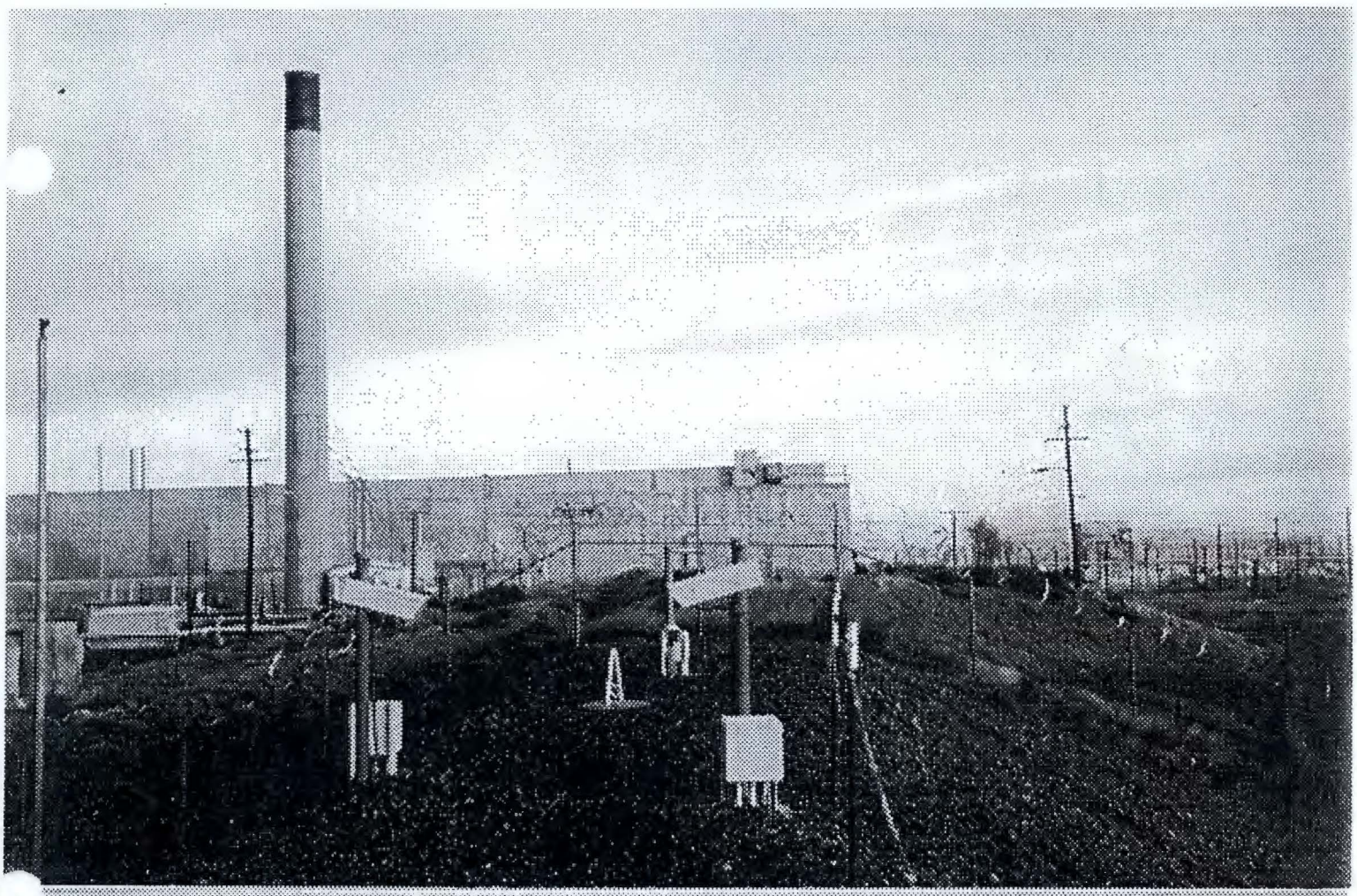
B&W Hanford Company



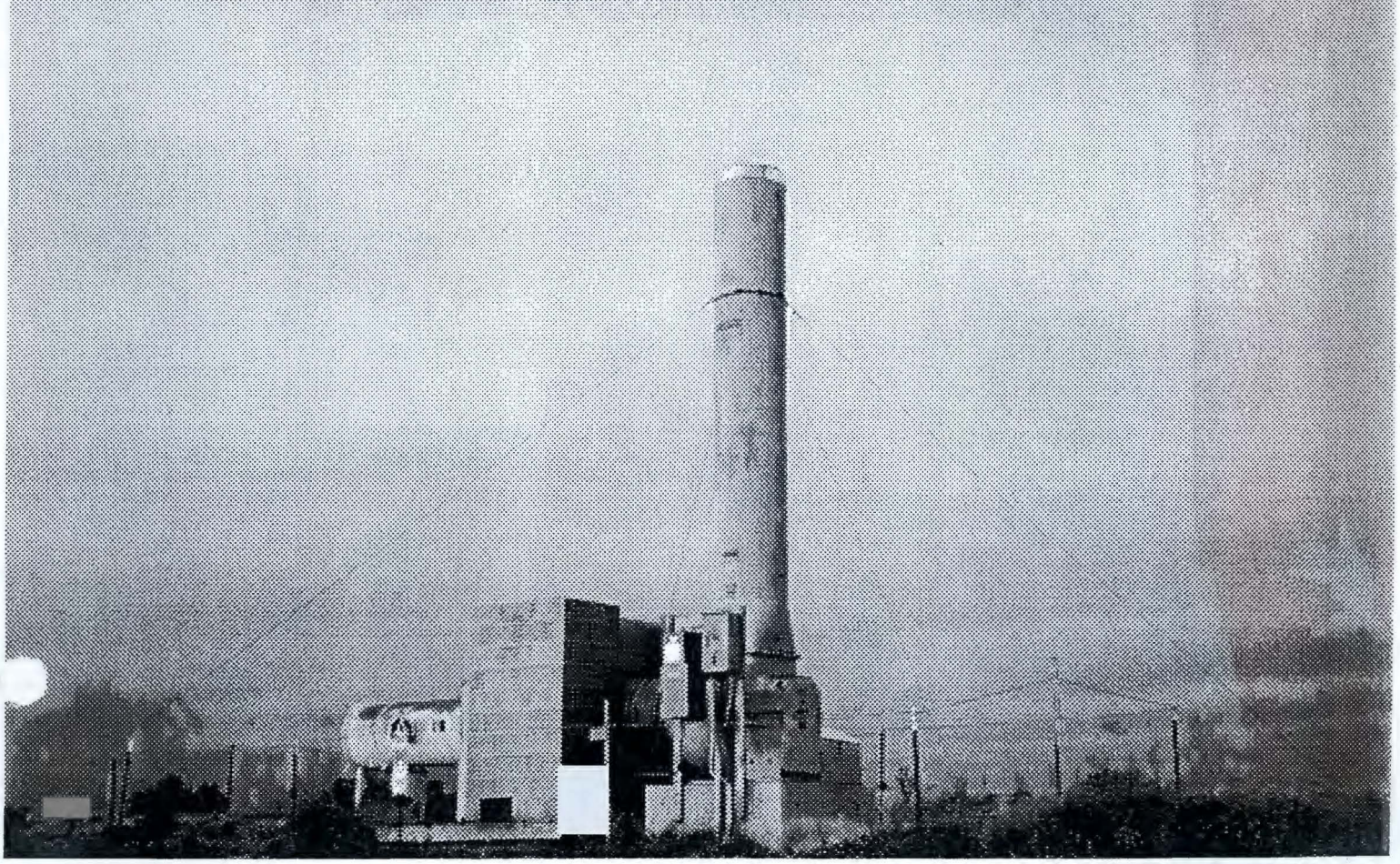


PUREX TUNNELS 300A WASTE DISPOSAL

PURTUN



PUREX Tunnel #2 and Stack



Progress Last Six Months

M-92-01

•Planning is proceeding to upgrade WESF for long-term storage of cesium capsules. Overall, the project is on schedule relative to the milestone goal date. Specifics are covered in the WESF update.

M-92-02 **Complete as of September 1997.**

M-92-03 **Completed as of December 1997.**

M-92-04

•The 324 and 327 Facilities transitioned to BWHC in November 1996. At that time, the 327 basin contained 13 failed cesium capsules. In FY 1997, BWHC completed the project planning, and design. FY 1998 has included:

- Installation of overpacks to replace the outer containments on the defective capsules stored at 327.
- Overpacked three additional capsules shipped from WESF F-Cell to 324 Facility (seven of the 16 total capsules will be re-overpacked, see Issues).
- Completed initial project planning for the packaging of the remaining 324 cesium powder and pellet inventory and nordian capsules.

M-92-05 Update covered in TWRS report.

M-92-12

•**Completed** draft of *324/327 Special Case Waste Assessment and Disposition Alternatives Analysis* (HNF-IP-1730), which includes over 95 percent of the Special Case Waste covered in M-92-13 through 16, and presented it to PHMC, DOE-RL and Ecology in December 1997. The study conclusions gained general concurrence and included:

- Spent Nuclear Fuel would be properly packed for storage at an onsite SNF Interim Storage Area (ISA) pending final disposition.
- Fuel pieces and fragments will be managed consistent with prior shipments as RH-TRU and stored in EBR-II Casks at the TRU pad pending final disposition.
- Cesium capsules/nordian capsules and remaining inventory of "pure" cesium powder and pellets will be transferred to WESF storage basin pending final disposition.
- B-Cell dispersables, tank heels, and metal filters will be packaged in shielded containers for storage in the PUREX tunnels, pending final disposition (in addition, ion exchange column media in 327 basin would be packaged for tunnel acceptance).
- Waste buckets in 327 Facility hot-cells will be managed consistent with prior shipments at the LLBG.
- SCW miscellaneous items in 324/327 Facilities were addressed and disposition options were chosen.

•DOE-RL received comments from Ecology and a disposition strategy was submitted and accepted. Comments require text additions/revisions/clarifications, however the conclusions of the study were concurred with by all parties.

•Milestone is currently projecting early completion.

M-92-13

•The document, HNF-IP-1730, will be the basis for the 324 and 327 Facilities' input to the Special Case Waste Project Management Plan. Data will be coordinated and added to include the 325 laboratory and the 340 waste handling facility inventories.

•A revised 300 Area Special Case Waste inventory has been compiled following extensive evaluation of 324/327 listed inventory and work with PNNL waste personnel. 325 Building waste was investigated and characterized after interviewing staff over a one to two-month period. Cut fuel canister records for 325 were investigated and calculations made to estimate the quantity of cut fuel pins.

M-92-14, -15, -16

•Designations and destinations for most of the site Special Case Waste have been proposed and preliminarily concurred with by DOE-RL/Ecology.

•M-92-14 and -15 are potentially **completed** (based on the shipments of the Federal Republic of Germany logs). However, the SCW inventory must be revised and approved prior to milestone closeout. (Note: considerable effort will be required to finish M-92-16 due to the distribution of the remaining material.)

Planned Progress Next Six Months

M-92-01

•Planning is proceeding to upgrade WESF for long-term storage of cesium capsules. Overall, the project is on schedule relative to the milestone goal date. Specifics are covered in the WESF update.

M-92-02 **Completed as of September 1997.**

M-92-03 **Completed as of December 1997.**

M-92-04

•Ship seven cesium capsules from WESF to the 324 Facility and replace the outer Type-W overpack.

•Complete packaging design and acceptance testing for storage systems for the remaining 324 Facility cesium powder and pellets for transfer to WESF.

M-92-05 Update covered in TWRS report.

M-92-12

•Initiate administrative and physical upgrades to allow re-opening of the Number 2 PUREX tunnel and finalize the path forward for the 324 and 327 Facilities' Special Case Waste, destined for the tunnel.

M-92-13

•Coordinate with PNNL and WMH to move forward with the 300 Area Project Management Plan for Special Case Waste.

•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

•Ship 200 of the legacy waste buckets within the 327 Building hot cells to storage in the 200 West Area.

Baseline Performance and Variance Analysis

Milestone M-92 Completion Status

M-92-01 Summary Milestone
M-92-02 **Completed** as of September 1997
M-92-03 **Completed** as of December 1997
M-92-05 Update covered in TWRS report
M-92-13

•No FY98 funding available. Completing Memorandum of Agreement and coordination with PNNL/WMH/BWHC/FDH through absorbed work scope.

M-92-12 Budget at Completion - $443.8K

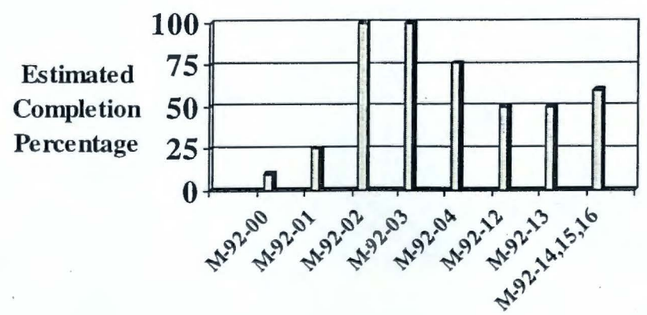
FY98 activities include stack upgrades to PUREX tunnels and initiate re-opening activities.

FYTD Cost Variance *(through January 1998)* ***$10.0K***

Summary Variance Analysis - No significant variance to report.
•**Impact** - n/a
•**Corrective Action** - n/a

FYTD Schedule Variance *(through January 1998)* ***<244.5K>***

Summary Variance Analysis - The baseline for this activity included the design, construction and permitting of a new SCW pad at the 200 West Area. Upon completion of the draft *324/327 Special Case Waste Assessment and Disposition Alternatives Analysis* (HNF-IP-1730), the baseline will be changed to reflect the use of the PUREX tunnels. Upon completion of the 324/327 Deactivation Project Management Plan in March 1998, a change request will be processed to record the baseline change.
•**Impact** - n/a
•**Corrective Action** - n/a



M-92-04 Budget at Completion - $905.6K

FYTD Cost Variance *(through January 1998)* ***$6.1K***

•**Summary Variance Analysis** - No significant variance to report.
•**Impact** - n/a
•**Corrective Action** - n/a

FYTD Schedule Variance *(through January 1998)* ***<11.0K>***

•**Summary Variance Analysis** - No significant variance to report.
•**Impact** - n/a
•**Corrective Action** - n/a

M-92-14, -15, -16 Budget at Completion-$1,028.2K

FY98 activities include only processing 327 hot cell waste containers.

FYTD Cost Variance *(through January 1998)* ***$298.5K***

•**Summary Variance Analysis** - The positive cost variance is the result of delays in receiving invoicing for the lead-lined and concrete-lined drums that are required for the packaging, transportation, and storage of the 327 Facility hot cell waste containers. This variance will self-correct by the end of the third quarter.
•**Impact** - n/a
•**Corrective Action** - n/a

FYTD Schedule Variance *(through January 1998)* ***<6.8K>***

Summary Variance Analysis - No significant variance to report.
•**Impact** - n/a
•**Corrective Action** - n/a

Issues

Issue: Upon review of QA records associated with the overpacks on seven cesium capsules processed at the 324 Shielded Materials Facility, deficiencies were identified and subsequently rejected for WESF pool storage.

- Seven cesium capsules shipped to WESF for acceptance into the WESF storage pool, were overpacked using material that had been intended for in-process demonstration of weld penetration.
- Samples of the welds were taken during the processing of the cesium capsules and sent to an NDE lab for analysis, all weld samples passed the testing.
- The seven overpacks had been rejected during the acceptance testing due to a minor deviance in thickness. (It is expected that if additional testing on the material had been conducted, the capsules could have met the WESF storage criteria).

•**Impact** - These capsules will require shipment back to 324 for installation of new overpacks.

•**Status/Corrective Actions** -

- The capsules are currently being stored in the BUSS cask in a WESF hot cell, pending removal of the nine acceptable capsules and return of the remaining seven to 324.
- A thorough critique has been **completed** on the incident and deficiencies noted in the cesium QA program have been remedied and implemented in all of the 324/327 projects.
- The cesium capsules currently have an inner container (316-L welded stainless steel), surrounded by an outer container (316- L welded stainless steel), and then overpacked with 316- L welded stainless steel. The final overpack is leak tested. The seven overpacks in question all passed the leak detection.
- The cesium capsules were originally shipped as potentially "failed capsules" to the 324 facility in the BUSS Cask and subsequently stored at 327 Basin pending repackaging. This BUSS cask was also used to transfer the overpacked capsules to WESF.
- The BUSS cask is sealed and leak tested prior to transfer. In addition the transportation safety analysis is based solely on the BUSS cask containment features, i.e., it does not rely on the integrity of the inner packaging. The cesium capsules in the overpacks were placed in the BUSS cask which was subsequently sealed and leak tested prior to shipment to WESF as nuclear material.
- The pathforward plan is to transfer the seven overpacked capsules back to 324 Facility in the BUSS cask as nuclear material. The overpacks will be removed and placed in new overpacks that meet the WESF storage criteria. The capsules will then be reshipped in the BUSS cask to WESF as nuclear material for subsequent acceptance and storage in the WESF pool.