

# START

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Meeting Minutes Transmittal/Approval  
Tri-Party Agreement Milestone Review Meeting  
EPA Conference Room  
Richland, Washington  
January 19, 1994

From/  
Appvl.: SHW

Steven H. Wisness, RL (A5-19)  
Hanford Project Manager

Date: 3/7/94

Appvl.: Douglas R. Sherwood

Douglas R. Sherwood, EPA (B5-01)  
Hanford Project Manager

Date: 2/24/94

Appvl.: Roger Stanley

Roger Stanley, Ecology  
Director, Tri-Party Agreement Implementation

Date: 2/25/94

Prepared by  
Appvl.: Frank T. Calapristi

Frank T. Calapristi  
Westinghouse Hanford Company

Date: 3/7/94

## DISTRIBUTION

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WHC B2-35  
DOE R3-80  
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DOE R3-80  
WHC B2-35  
WHC H6-29  
WHC R3-46  
DOE A5-19

Hennig, JM  
Nylander, D  
Rasmussen, JE  
Sherwood, DR  
Stanley, R  
Thompson, KM  
Wisness, SH  
EPIC

DOE R3-80  
ECO Kennewick  
DOE A5-15  
EPA B5-01  
ECO Olympia  
DOE A5-19  
RL A5-15  
WHC H6-08



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**Tri-Party Agreement Milestone Review  
Meeting Minutes Transmittal/Approval  
January 19, 1993 (sheet 2 of 4)**

Steve Wisness (DOE) opened the meeting by announcing the use of the Site Management System (SMS) report as the new format for the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement Milestone) milestone presentations. The SMS report is being utilized as an efficiency action to maximize the use of existing reports and eliminate the need for presenters to prepare a special report. DOE noted this was first use of the SMS as a Tri-Party Agreement Milestone reporting format and suggestions from the EPA and Ecology were welcome.

The question of SMS timeliness was discussed, since the basic document for the M-17-00 presentation was providing status for the November 1993 reporting month, since the December report would not be available for another week. It was tentatively agreed by the three parties to move the future meeting dates back one week to allow the use of the latest (preceeding month) SMS information.

**M-17-00 Treatment Facilities M-26-03/04 LERF**

The presentation was made by Dana Bryson (Attachment 1). It was noted the presentation will be based on the SMS November reporting month. In discussing the Work Breakdown Structure (WBS) for the Liquid Effluent Program, two program elements were identified:

Liquid Effluents and Hanford Environmental Compliance (HEC), which together represent 98% of the total program funding.

**A. Liquid Effluent**

- Program Managers Assessment - This is the typical "stoplight" chart normally used for assessing program activities. DOE said the "satisfactory" (diamond symbol) will be the baseline for contractor performance expectation. Roger Stanley (Ecology) questioned the timeliness of the assessment and requested supplemental information to bring the report up to the current date. June Hennig (DOE) suggested one additional slide may be provided to meet this requirement. A lengthy discussion followed on the usefulness of the SMS, as perceived by the Program Managers. June Hennig replied the SMS is used extensively by Program Managers and during its review cycle changes are made as required. However, each program manager may have slightly different requirements. At the end of the discussion, there was general agreement that an addendum slide will be added, if necessary, to bring the SMS information up to the current date.
- Other sections of the presentation included: Milestone Schedule, Milestone Achievement, Milestone Exception Report, Program Accomplishments, Expense/Cost Performance and Issues. There were no new issues or action items identified. The focus of any discussion was related to explanation of the report and its data.

**Tri-Party Agreement Milestone Review  
Meeting Minutes Transmittal/Approval  
January 19, 1993 (sheet 3 of 4)**

**B. Hanford Environmental Compliance (HEC)**

- Dana Bryson (DOE) was the presenter and started the presentation by defining the HEC program. Dana stated HEC is a Major System Acquisition process, tracked through Congress, and is comprised of major construction projects to meet compliance requirements. HEC is scheduled to be terminated in Fiscal Year (FY) 1995. All projects will then be consolidated into individual programs.
- While reviewing the "Program Managers Assessment" section, it was noted the Waste Sampling and Characterization Facility (WSCF) had a cost overrun. However, further discussion was deferred until this afternoons Project Managers Meeting. Other sections of the presentation included: Milestone Schedule, Milestone Achievement, Construction Cost Performance and Issues. No additional issues or action items were identified.

At the conclusion of the presentation, Doug Sherwood (EPA) asked for some sort of an exception report, identifiable to the M-17-00 milestone, to cover topics that may not be included in the SMS report. For example, does the 2% of funding not covered in the SMS report, contain any Tri-Party Agreement related data? Dave Nylander (Ecology) noted there was a great deal of information in the SMS and asked for an advance copy to review before the presentation. DOE replied they will try to provide the advance copy, but will have to investigate the timeliness of document distribution and possibly expediting the review cycle.

**2. M-13-00, M-15-00, M-16-00 Past Practice Milestones**

The presentation was made by Mike Thompson (Attachment 3), using the December SMS as the basic document. Mike reviewed the following sections of the SMS: Work Breakdown Structure, Program Managers Assessment, Milestone Schedule, Milestone Exception Report, Program Accomplishments, and Cost/Schedule Performance. There were no additional issues or action items identified. Under the "Issues" discussion, was an issue dealing with the inadvertent disposal of contaminated soil in the Richland landfill. This action resulted in all work being stopped at the North Slope pending corrective action. It was reported the contamination was essentially innocuous; however, there is a Conduct of Operations problem that must be corrected. EPA emphasized their primary concern was that a waste disposal plan was signed by the three parties but the plan was not followed. EPA is awaiting the corrective active.

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**Tri-Party Agreement Milestone Review  
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Two action items were identified after completion of the presentations.

**Action:** DOE to provide an Environmental Restoration FY Work Plan to EPA and Ecology.

**Resp.:** Mike Thompson

**Due:** ASAP

**Action:** Provide EPA and Ecology the status of the Environmental Restoration Management Contract (ERMC) decision.

**Resp.:** Mike Thompson

**Due:** Before January 25, 1994

Two additional planned actions were identified.

- Doug Sherwood (EPA) will be making a presentation to the Oregon Hanford Waste Board on February 22, 1994 to provide information on negotiated groundwater issues.
- Steve Wisness (DOE) will be meeting with the Indian tribes to discuss ER issues such as Environmental Restoration Disposal Facility (ERDF), Program refocus, etc.

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## AGENDA

## TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW

WEDNESDAY, JANUARY 19, 1994

EPA CONFERENCE ROOM  
MEDICAL DENTAL CENTER

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>LEVEL 2/3 MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-17-00	Treatment Facilities/ Upgrades	J. M. Hennig	D. E. Kelley	D. C. Bryson
	M-26-03	Cease 242-A discharges to LERF	J. M. Hennig	D. E. Kelley	D. C. Bryson
	M-26-04	Remove Residues / 242-A LERF	J. M. Hennig	D. E. Kelley	D. C. Bryson
10:00 am		BREAK			
10:15 am	M-13-00	Six (6) RI/FS Work Plans/Year	J. K. Erickson	T. M. Wintczak	K. M. Thompson
	M-15-00	RI/FS Process Completion	J. K. Erickson	T. M. Wintczak	K. M. Thompson
	M-16-00	Complete Remedial Actions	J. K. Erickson	T. M. Wintczak	K. M. Thompson
11:00 am		ADJOURN			



ATTENDEES

## TPA MILESTONE MANAGEMENT REVIEW

JANUARY 19, 1994

EPA CONFERENCE ROOM  
MEDICAL DENTAL CENTER

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>
<u>F.T. CALAPRISTI</u>	<u>WHC/TPA</u>	<u>B2-35</u>
<u>D Bryson</u>	<u>DOE-RL</u>	<u>R3-80</u>
<u>A.J. DiLiberto</u>	<u>WHC/LIQUID EFFLUENT</u>	<u>R3-46</u>
<u>Doug Sherwood</u>	<u>EPA</u>	<u>B5-01</u>
<u>LARRY D ALNOLD</u>	<u>WHC/TPAI</u>	<u>B2-35</u>
<u>June M Hennig</u>	<u>DOE-RL</u>	<u>R3-80</u>
<u>V. Augustenberg</u>	<u>DOE-RL</u>	<u>R3-80</u>
<u>X. Michael Thompson</u>	<u>DOE-RL-ER</u>	<u>A5-15</u>
<u>J. E. Rasmussen</u>	<u>DOE-RL</u>	<u>A5-15</u>
<u>S.H. Wisness</u>	<u>DOE-RL</u>	<u>A5-15</u>
<u>R. Stanley</u>	<u>Ecology</u>	<u>Lacey</u>
<u>J.A. Di d'ur</u>	<u>WHC/ER</u>	<u>H6-29</u>
<u>DAVE NYLANDER</u>	<u>Ecology</u>	<u>Kenneth</u>
<u> </u>	<u> </u>	<u> </u>

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**Westinghouse Hanford Company  
SITE MANAGEMENT SYSTEM**

**PROGRAM**

**LIQUID EFFLUENT PROGRAMS**

**1.2.2.1**

**PROGRAM MANAGERS**

**A.J. DILIBERTO, WHC  
Phone: 372-3323**

**D.C. BRYSON, RL  
Phone: 372-0738**

**NOVEMBER 1993**



## Program Executive Summary

**PROBLEMS/ISSUES/CONCERNS:** The Liquid Effluent Program continues to aggressively work to meet established milestones; however, significant challenges are putting Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones in jeopardy.

- Office space and training facilities for 200 Area Effluent Treatment Facility (ETF) personnel are critically short.
- Repair of the Liquid Effluent Retention Facility (LERF) basin liner is delayed until spring by weather.
- Issuance of the 300 Area Treated Effluent Disposal Facility (TEDF) outfall construction permits are being delayed.
- The State Environmental Policy Act (SEPA) determination for the 200 Area ETF has been delayed.

**CORRECTIVE ACTIONS:** Issues putting milestone completion at risk are being addressed.

- Office trailers have been ordered to provide temporary office and training facilities for the growing 200 Area ETF operating and maintenance staff.
- A delay in beginning hot operation of the 200 Area ETF has been proposed to the regulators. A delay is requested from October 1994 to June 1995 to provide additional time for the SEPA determination and other workscope.
- Westinghouse Hanford Company (WHC) and U.S. Department of Energy, Richland Operations Office (RL) legal staff are pursuing timely resolution to the 300 Area TEDF outfall construction permit delay.

**SUMMARY ASSESSMENT:** Overall the Liquid Effluent Program is rated as good. Funding has been identified to meet all regulatory and compliance driven workscope. The 1994 Fiscal Year Work Plan (FYWP) has been revised and submitted to RL for approval. The 200 Area ETF (Project C-018H) change request to delay hot operations until June 1995 is pending approval. Therefore, schedule status is considered to be satisfactory. Project W-049H is performing ahead of schedule and on budget and is therefore rated as outstanding. Project C-018H is considered marginal for ES&H Compliance and Schedule due to the SEPA review being delayed. Approval is being sought to transfer the 340 Facility workscope from ADS 2320 to ADS 2300. Beginning with this month's report, all associated activities will be reported under ADS 2300. The 1994 Fiscal Year Work Plan for ADS 2300 is anticipated to be approved in December.

**COST STATUS:** Liquid Effluent Programs completed FY 1993 with a total carryover of \$1.97M (\$257K Expense, \$87K CENRTC, \$1,624K GPP). The \$257K Expense carryover is needed for preparation of 61 operating procedures for the 300 Area Treated Effluent Disposal Facility (L-045H) originally planned for FY93. The completion of these procedures is critical to the completion of Tri-Party Agreement Milestone M-17-09 by December 1994. The \$87K CENRTC carryover will be used to complete the purchase of LEMIS computer equipment (\$15K) and three vehicles (\$72K). Of the \$1,624K GPP carryover, \$676K is required in FY94 to complete the C-018H load-in/load-out stations (Project W-342). The remainder, \$948K, is to be withdrawn by HQ in early FY94, as agreed, to help offset a funding shortfall in Solid Waste.



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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SCHEDULE STATUS (HQ/RL): There are no HQ milestones identified in the Liquid Effluent Programs 1994 FYWP. All RL milestones scheduled to date have been completed.

TECHNICAL STATUS: No outstanding technical issues have been noted therefore technical status is good.

TPA STATUS: A Change Request has been presented to the regulators for consideration to delay Tri-Party Agreement Milestones M-17-14 (October 1994) for hot start-up (Project C-018H) with permitted discharge to the soil, and M-17-29 (October 1994) to implement BAT/AKART for the 242-A Evaporator Process Condensate. This Change Request also requests the deletion of the word "operational" from milestone M-17-14D to initiate operational test procedures for the 242-A Evaporator/PUREX Plant Condensate Treatment Facility. Due to the SEPA determination delay, funding constraints, and new requirements, the 200 Area ETF will begin hot operations in June 1995.

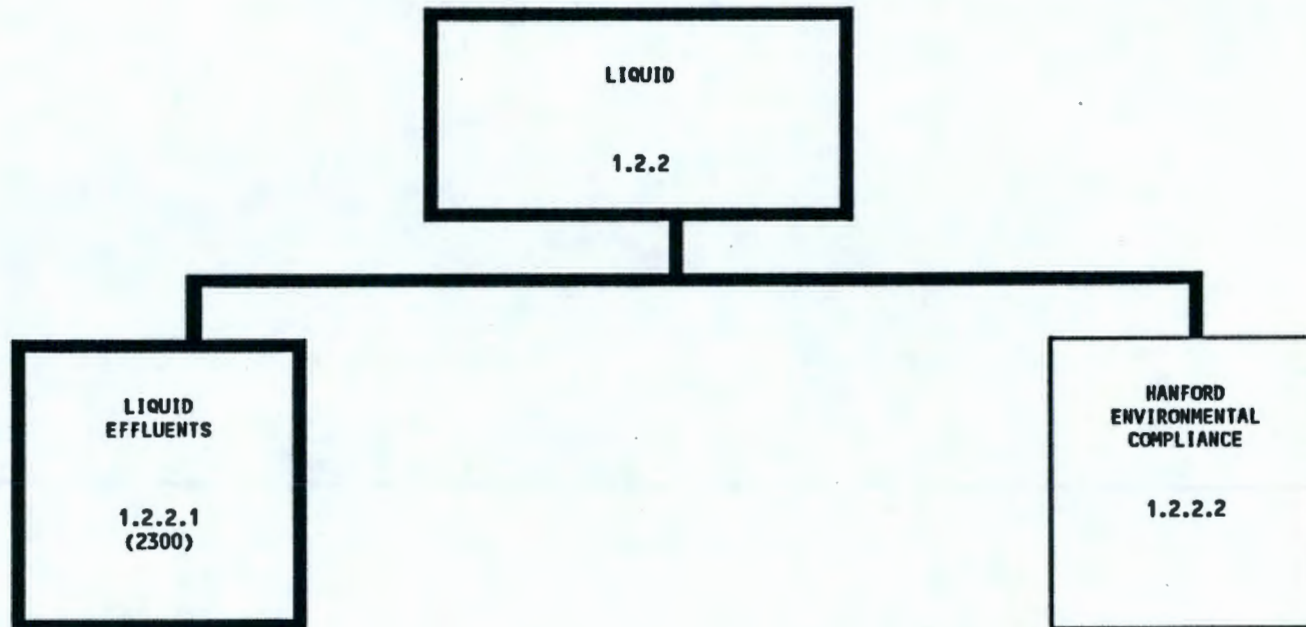
MAJOR ACCOMPLISHMENTS:

300 Area Treated Effluent Disposal Facility (L-045H): No salmon spawning areas were sighted during the first of two surveys planned to fulfill Department of Fisheries requirements in order to complete construction of the outfall pipeline into the Columbia River.

200 Area Treated Effluent Disposal Facility (W-049H): The disposal site construction contract was awarded to Ground Improvement Techniques, Inc. The SEPA Checklist was submitted to the Washington State Department of Ecology on November 8, 1993.

Interim Compliance Program: The 216-S-26 Groundwater Impact Assessment Report was issued in November completing this RL milestone. The 216 permit applications for 183-D Filter Backwash Stream and other Phase II Streams discharging to B-Pond were submitted to RL, meeting seven FO milestones.

**WORK BREAKDOWN STRUCTURE**



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## PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
1.2.2.1	A2 Liquid Disposal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇	+ <input type="checkbox"/>	
1.2.2.1.1	A2C - Effluent Treatment Facility (Project C-0181)	--○↑	<input type="checkbox"/>	<input type="checkbox"/>	--○↑	◇	Approval of funding change notice delayed operations support facility. SEPA review/ approval will delay start up. TPA Change Request submitted.
1.2.2.1.2	A2L - 300 Area TEDF (Project L-0451)	◇↓	<input type="checkbox"/>	<input type="checkbox"/>	◇↓	<input type="checkbox"/> ↓	Conditional permits for construction of outfall delayed by regulators.
1.2.2.1.3	A2W - 200 Area TEDF (Project W-0491)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	■	Project activities ahead of schedule and on budget.
1.2.2.1.8	200 Area TEDF BAT Implementation W-291	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇↑	+ <input type="checkbox"/>	284-W Power Plant definitive design to be completed for 60% Design Review in January.
1.2.2.1.4	A2T - Liquid Effluent Retention Facility (LERF)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇	◇	Start up delayed due to TWRS safety retraining. Basin repairs also delayed.
1.2.2.1.5	A2E - 200 E Area Phase II Streams TEDF (Proj W-252)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	+ <input type="checkbox"/>	+ <input type="checkbox"/>	Funding sources approved by RL.
1.2.2.1.6	A2F - Miscellaneous Liquid Effluent Streams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	+ <input type="checkbox"/>	+ <input type="checkbox"/>	Funding sources approved by RL.
1.2.2.1.7	A2D - Interim Compliance Hanford's 33 Streams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	+ <input type="checkbox"/>	+ <input type="checkbox"/>	Funding sources approved by RL.

LEGEND	
RATING GRADIENT SYMBOLS	INDICATORS
■ Outstanding	+ Improved from last month
<input type="checkbox"/> Good	-- Worsened from last month
◇ Satisfactory	↑ Improved future outlook
○ Marginal	↓ Worsened future outlook
● Unsatisfactory	

The information contained within this report is complete and accurate to the best of my knowledge.

*R. J. Diliberto*  
R. J. DILIBERTO

WHC Program Manager

1921-6615146





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## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1.2.2.1.6 (2300) Miscellaneous Liquid Effluent Streams		Submit Misc Strins Plan/Sched				Submit 200W Pwrhouse Ash Wastewtr Permit								
				△FO						△FO				
		Submit 200E Pwrhouse Ash Wastewtr Permit								△FO				
		Submit 100N Sanitary Sewer System Discharge Permit								△FO		△FO		
		Submit 300A Filter Backwash Discharge Permit								△FO				
		Submit 300A Sanitary Sewer System Discharge Permit								△FO				
		Submit 183D Filter Backwsh Discharge Permit								△FO				
		Submit 209E Bldg Steam Condensate Discharge Permit								△FO				
		Submit 400A Sanitary Wastewtr Discharge Permit								△FO				
		Submit 272E, 2703E Bldgs Wastewtr Discharge Permit								△FO				
		△RL	Prepare/Issue 216-Z-20 GIA Report											
		△RL	Prepare/Issue 216-S-26 GIA Report											
		△FO	Submit B Plant Cooling Wtr Discharge Permit											
		△FO	Submit 183D Filter Backwash Discharge Permit											
		△FO	Submit 242A Evap Cooling Wtr Discharge Permit											
		△FO	Submit 242A Evap Steam Condensate Discharge Permit											
		△FO	Submit 241A Tank Farm Cooling Wtr Discharge Permit											
		△FO	Submit 244-AF Vault Cooling Wtr Discharge Permit											
		△FO	Submit 284E Pwr Pnt Discharge Permit											
			△RL Issue 216-U-14 GIA Report											
			△RL Prepare 216-T-1 GIA Assess Plan											
			△RL Prepare 216-T-4-2 GIA Plan											
			△RL Prepare 216-B-3 GIA Plan											
			△RL Issue 216-W-LC GIA Report											

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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### Milestone Achievement

Type		Current Month Milestones			Fiscal Year To-Date Milestones			Remaining Scheduled	FYWP Total
		Scheduled*	Completed	Delinquent	Scheduled*	Completed	Delinquent		
T P A	Major	0	0	0					
	Interim	0	0	0					
D O E	HQ	0	0	0					
	FO	7	7	0					
	RL	1	1	0					
Total		8	8	0	TBD	TBD	TBD	TBD	TBD

\*Scheduled milestones reflect the approved baseline.

Note: 1994 Fiscal Year Work Plan not yet approved.



SITE MANAGEMENT  
SYSTEM

WESTINGHOUSE HANFORD COMPANY  
1.2.2.1 LIQUID EFFLUENT PROGRAMS

NOVEMBER 1993

## Milestone Exception Report

### FUTURE MILESTONES IN JEOPARDY

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Forecast Completion Date</u>	<u>Cause/Impact/Recovery Plan</u>
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### MILESTONES DUE BUT NOT COMPLETE

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Forecast Completion Date</u>	<u>Cause/Impact/Recovery Plan</u>
(FY93)	RL	Submit Pilot Plant Readiness Review Report to Ecology/EPA	6/4/93	4/15/94	Delayed because Evaporator hot feed test sample not available. Date to be renegotiated in 1994 FYWP thereby putting milestone on schedule.

SITE MANAGEMENT  
SYSTEMWESTINGHOUSE HANFORD COMPANY  
1.2.2.1 LIQUID EFFLUENT PROGRAMS

NOVEMBER 1993

**Milestone Exception Report****MILESTONES COMPLETED EARLY**

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Actual Completion Date</u>	<u>Comments</u>
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**MILESTONES COMPLETED LATE**

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Actual Completion Date</u>	<u>Comments</u>
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SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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## Program Accomplishments

<u>WBS</u>	
1.2.2.1	<p><u>L-045H, 300 Area Treated Effluent Disposal Facility</u></p> <p>No salmon spawning areas were sighted during the first of two surveys planned to fulfill Department of Fisheries requirements in order to complete construction of the outfall pipeline into the Columbia River. The training schedules continue to be revised to meet the required December 1994 startup date.</p> <p><u>W-291, 200 Area Treated Effluent Disposal Facility BAT Implementation</u></p> <p>The project Preliminary Safety Analysis Report Plan review was completed. A 30% Design Review was completed with the exception of the 284-W Power Plant definitive design, which is in process.</p>



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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### Program Accomplishments (continued)

<u>WBS</u>	
1.2.2.1	<p><u>W-049II, 200 Area Treated Effluent Disposal Facility</u></p> <p>The disposal site construction contract was awarded to Ground Improvement Techniques, Inc. The SEPA Checklist was submitted to Ecology on November 8, 1993.</p> <p><u>Interim Compliance Program</u></p> <p>The 216-S-26 Groundwater Impact Assessment Report was issued in November completing this RL milestone. Several permits were submitted including the B Plant Cooling Water Discharge, 183D Filter Backwash, 242A Evaporator Cooling Water, 242A Evaporator Steam Condensate, 241A Tank Farm Cooling Water, 244-AR Vault Cooling Water, and 284E Power Plant in fulfillment of these FO milestones.</p> <p><u>Phase II Effluent (Project W-252)</u></p> <p>Expense funding to initiate Advanced Conceptual Design was authorized by RL. A letter of instruction was issued to KEII to initiate the work.</p>

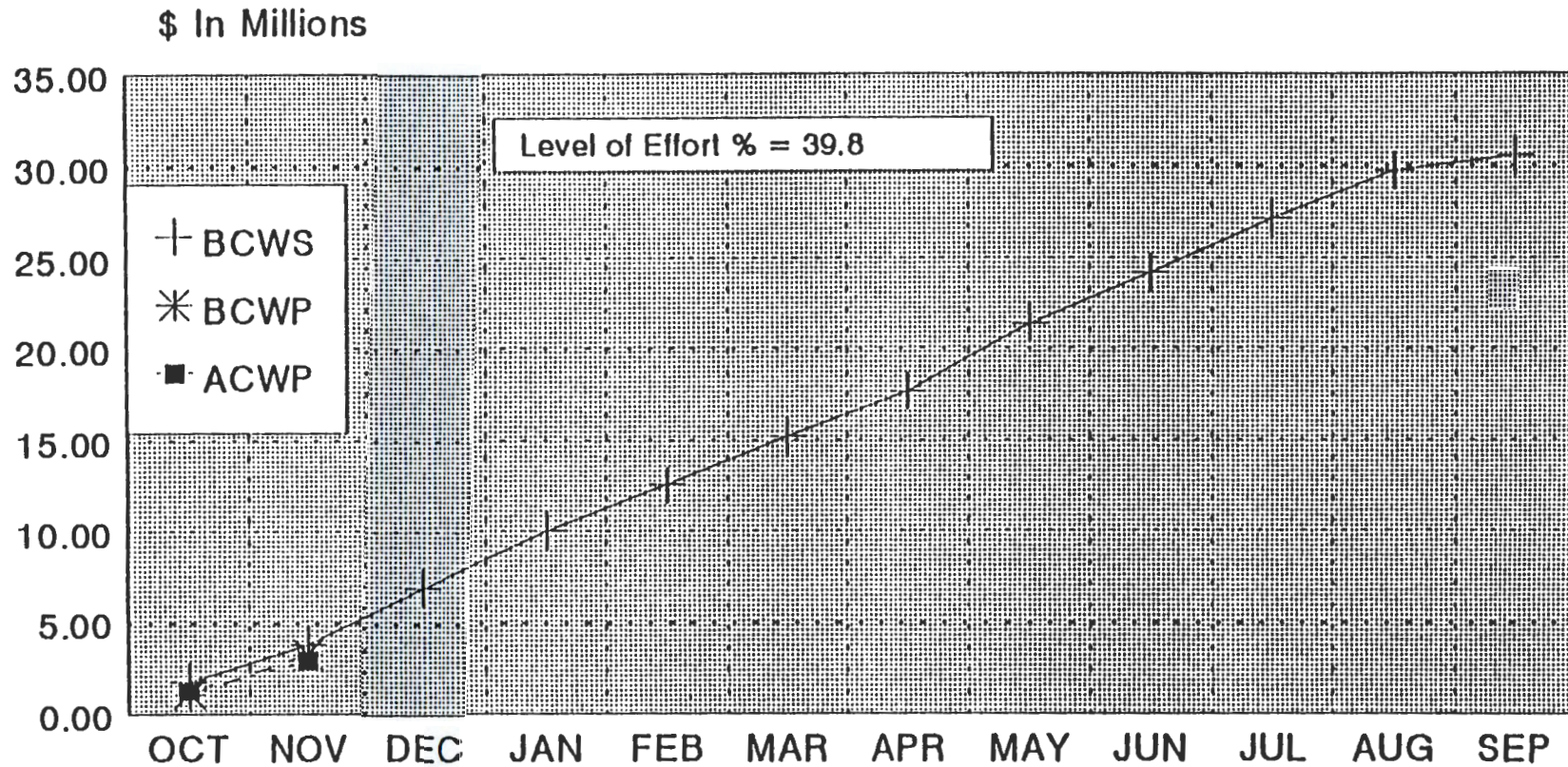
SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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## CLASS I CHANGE REQUEST STATUS

PROGRAM CHANGE NUMBER	WHC CONTROL NUMBER	WBS NUMBER	ORIGI- NATION DATE	DESCRIPTION	COST	SCH EDU LE	TEC HNI CAL	DATE TO RL	STATUS
<b>CURRENT ACTIVITY:</b>									
N/A									
<b>OTHER INFORMATION:</b>									

# EXPENSE COST/SCHEDULE PERFORMANCE

Cumulative to Date Status



Fin Plan	0.00											
BCWS	1.79	3.82	6.97	10.00	12.51	15.20	17.65	21.38	24.16	27.13	29.75	30.57
BCWP	1.13	3.27										
ACWP	1.30	2.93										
SV	-0.66	-0.55										
CV	-0.17	0.34										



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SITE MANAGEMENT  
SYSTEMWESTINGHOUSE HANFORD COMPANY  
1.2.2.1 LIQUID EFFLUENT PROGRAMS

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## EXPENSE COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARI- ANCE	FYSF	PROJECTED CARRY- OVER WORK- SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
1.2.2.1 (2300)	3.82	3.27	2.93	(0.55)	(0.34)	30.57	31.85	(1.28)	31.85	0	BAC incorrect due to FDS system error.
1.2.2.1 (2300)	3.82	3.27	2.93	(0.55)	(0.34)	30.57	31.85	(1.28)	31.85	0	

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.

FYSF is defined as the estimated total that will be spent from October through September.



SITE MANAGEMENT  
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1.2.2.1 LIQUID EFFLUENT PROGRAMS

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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(548.7K)	
	<p><u>(Description and Cause:)</u></p> <p>1994 FYWP not yet approved.</p> <p>C-018H Tritium study delayed due to lack of manpower.</p> <p>BCWP understated for W-049H, Miscellaneous Streams, and C-018H Systems Engineering.</p> <p>LERF Operations behind schedule due to delay in 242-A restart and LERF Basin 44 liner repair.</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>Personnel have been hired and this activity is expected to be completed on schedule.</p> <p>No long-term impact. Will be adjusted for next reporting cycle. Materials budgeted in November for C-018H office space not yet required.</p> <p>242-A Evaporator startup scheduled for mid-January. LERF Basin 44 Liner repair scheduled for spring.</p>

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## EXPENSE COST VARIANCE ANALYSIS

WBS (WBS)	COST VARIANCE \$(341.4K)	
1.2.2.1 (2300)	<u>(Description and Cause:)</u> 1994 FYWP not yet approved.  PNL's Environmental Services Organization (ESO) accrual reversal received and budgeted ESO close-out costs not yet charged for L-045H. CH2M Hill billings for L-045H Facility Description Manual and operations procedures development are outstanding. Training expenditures are underspent on level-of-effort CAP.	<u>(Impacts and Corrective Action:)</u>  No long-term impact. Will be adjusted as expenses are costed.

SITE MANAGEMENT  
SYSTEM

WESTINGHOUSE HANFORD COMPANY  
1.2.2.1 LIQUID EFFLUENT PROGRAMS

NOVEMBER 1993

## CENRTC COST PERFORMANCE

(\$ In Thousands)

WBS (ADS)	TOTAL B/A	FISCAL YEAR TO DATE			COMMENTS
		ACTUAL (ACWP)	COMMITTED (P/O)	UNCOMMITTED	
1.2.2.1 (2300.0) Liquid Effluent Programs	189	0	0	189	Currently prioritizing equipment needs
ACTIVITY FOR CURRENT YEAR FUNDED EQUIP.	<u>8138</u>	<u>8051</u>	<u>87</u>	<u>0</u>	
ACTIVITY FOR PRIOR YEAR(s) FUNDED EQUIP.					
TOTAL	8327	8051	87	189	

9413199.1775

SITE MANAGEMENT  
SYSTEM

WESTINGHOUSE HANFORD COMPANY  
1.2.2.1 LIQUID EFFLUENT PROGRAMS

NOVEMBER 1993

## CONSTRUCTION COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	PROJECT TO DATE					AMOUNT AUTH. TO DATE	AT COMPLETION (PROJECT)		COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE			TOTAL ESTIMATED COST	PRESENT WORKING ESTIMATE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST				
1.2.2.1 (2300)	.370	.273	.279	(.097)	(.008)	.930	.930	.930	
TOTAL	.370	.273	.279	(.097)	(.008)	.930	.930	.930	



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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## CONSTRUCTION SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(.097M)	
1.2.2.1 (2300)	<u>(Description and Cause:)</u> BCWS pertaining to design overstated in FY93 but will be spent in FY94.	<u>(Impacts and Corrective Action:)</u> Costs budgeted for early FY94 will not be spent until later. Project TEC remains unchanged. Schedule recovery plans underway.

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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**CONSTRUCTION COST VARIANCE ANALYSIS**

WBS (WBS)	COST VARIANCE \$(.006M)	
	<u>(Description and Cause:)</u>	<u>(Impacts and Corrective Action:)</u>
1.2.2.1 (2300)	Within threshold.	



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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WBS NO.	DATE IDENT	ISSUE	IMPACT	STATUS
1.2.2.1-4*	9/92	Support facility for operations, engineering, and maintenance personnel has not been approved. Office space is required to house staff needed to support the 200 Area Effluent Treatment Facility.	Without office space, staff cannot be hired and trained to support hot start-up.	Permanent office facility incorporated into C-018H project scope. Until trailers are available, temporary space has been identified in 200 Areas and 2440 Stevens Center. This issue is closed.
1.2.2.1-11	3/93	The LERF Basin 44 repair effort under the extended warranty provisions was delayed. Repair of the LERF Basin 44 liner by the fixed-price contractor was scheduled for October 18, 1993. During this time the management of the 242-A Evaporator has continued to apply the Tank Farm stop-work order to repair of the Basin 44 liner and canceled work on October 13, 1993.	It is unknown if the liner contractor will extend the warranty period until the spring of 1994.	Requirements to proceed with repairing the Basin 44 liner are being worked with Tank Waste Remediation Systems. The repair contractor has advised WHC that their work schedules do not support repairing the liner until the spring of 1994. Conversations continue on extension of warranty period. This issue is closed.



<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS</b>	<b>NOVEMBER 1993</b>
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<b>WBS NO.</b>	<b>DATE IDENT</b>	<b>ISSUE</b>	<b>IMPACT</b>	<b>STATUS</b>
1.2.2.1-21	8/93	Ecology has made a SEPA determination of significance, which would normally require that an Environmental Impact Statement be written; however, they have decided to adopt the Hanford Environmental Compliance-Environmental Assessment (HEC-EA). The HEC-EA does not discuss tritium disposal nor other options being considered such as treatment of groundwater at the facility.	A SEPA resolution disallowing the previously approved disposal to the ground would delay ETF and 242A Evaporator operation and require additional funding for new disposal option.	A TPA Change Request has been presented to the regulators (M-17-93-07). This requests changing the milestone date for M-17-14 to 6/95 due to the SEPA delay.
1.2.2.1-22	8/93	The FY94 President's Budget less 5% does not support the Phase II Stream Project W-252, Interim Compliance Sampling and Analysis, Groundwater Assessment Activities, and Miscellaneous Stream Plans and 216 Permits.	Workscope cannot be completed without appropriate funding.	The WIC Program Integration Team has identified funding through the WIC 4% productivity initiative, overhead reductions, and reprogramming. FY94 work plans have been drafted and provided to RL for approval. This item is closed.

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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WBS NO.	DATE IDENT	ISSUE	IMPACT	STATUS
1.2.2.1-1 (FY94)	10/93	The delay in approval of conditional permits for "Right-of-entry" by Department of Natural Resources, 401 certification by Ecology, and dredge and fill by the Corps of Engineers are now on the critical path to meet the January to February 1994 window for constructing the outfall in the river.	Unless these permits are approved, the construction window will be missed and Tri-Party Agreement Milestone M-17-09 for hot operations will be impacted.	Steps have been taken to expedite this matter via WHC and RL Permitting organizations and RL Legal. The subcontractor must be notified by December 15, 1993, of our intentions so they can mobilize to complete this work.
1.2.2.1-2	3/93	An assessment was conducted from 1/25/93 through 3/3/93 by the Office of Performance Assessment (OPA) of the 340 Facility's operating and training programs. Deficiencies were identified. There is a potential to shut down the 340 Facility. This workscope is being transferred from WBS 1.2.3 to 1.2.2.1.	PNL requires the 340 Facility's waste handling capabilities for wastes it generates from laboratory activities tied to Tri-Party Agreement/DOE milestones.	Work is continuing to correct the problems identified by the audit. An annual update of operating procedures is in progress. Emphasis is being placed on the OPA findings, 340 specific procedures, and user-friendly formatting. This is expected to be completed February 1994. This issue is closed.



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.1 LIQUID EFFLUENT PROGRAMS	NOVEMBER 1993
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WBS NO.	DATE IDENT	ISSUE	IMPACT	STATUS
1.2.2.1-3	8/93	Lack of craft support for the 340 Facility, due to higher priorities outside of the 300 Area.	This will severely limit the accomplishment of System and preventive maintenance tasks.	340 Management is meeting with Operations Support Services weekly to raise 340 priority for craft support. Craft support has improved. This issue is closed.



**Westinghouse Hanford Company  
SITE MANAGEMENT SYSTEM**

**PROGRAM**

# **HANFORD ENVIRONMENTAL COMPLIANCE**

## **1.2.2.2**

**PROGRAM MANAGERS**

**D. C. Bryson, RL  
Phone: 372-0738**

**L. L. Powers, WHC**

**R. M. HIEGEL, RL  
Phone: 376-1062**

**J. R. KELLY, WHC**

**NOVEMBER 1993**

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## Program Executive Summary

### PROBLEMS/ISSUES/CONCERNS:

Timely approval of regulatory permits required to support Subprojects C-018H, (242A Evaporator/ PUREX Plant Condensate Treatment Facility) and L-045H, (300 Area Treated Effluent Disposal Facility), Construction Completion milestones continue to be a major issue. No noticeable progress has been made since last month's report. Completion of State Environmental Policy Act (SEPA) process is required before construction can start on State Approved Land Disposal Site (SALDS). The SEPA resolution has been delayed until at least February 1994 due to state decision to require a public comment period. Delay could impact the June 1994 DOE HQ Construction Completion Milestone.

Subproject L-045H, 300 Area Treated Effluent Disposal Facility Construction Completion milestone is 7/94. The Washington State Department of Natural Resources (DNR) is currently four weeks late in transmitting the draft "Right-of-Entry" permit which is delaying issuance of the 401 Review for Construction by the Washington State Department of Ecology which in turn is delaying the Dredge and Fill Permit issuance from the US Army Corps of Engineers. All three permits are necessary to initiate outfall construction in the restricted construction window of January 1, 1994 through February 28, 1994. If construction is not completed in this window it will be delayed until the same period in 1995, thus requiring an extension to TPA M-17-09, 12/94 milestone date.

Subproject W-011H, Waste Sampling and Characterization Facility, experienced a Total Estimated Cost overrun of \$1.2M. The overrun is due to failure to manage the workscope of the cost plus fixed fee contractor retained to assemble the modules and correct deficiencies caused by the original module manufacturer. The main reason for the increase in workscope was the larger than anticipated number of deficiencies. A change request was submitted to DOE-RL in November 1993. Funds to cover the overrun are available within the HEC Management Reserve. There will be no impact to the HEC Project Total Estimated Cost. A joint WHC/KEH independent review team was established to review and prepare a report on the W-011H overrun. A final report is scheduled to be made to DOE-RL December 7, 1993.

### CORRECTIVE ACTIONS:

Subproject C-018H: Agreement between WHC and RL has been reached to proceed at risk with the bid process for the disposal system. Request for quote was issued to obtain bids for the Disposal Construction. Bid opening is scheduled for December 12, 1993. The state has been notified of the impact. Preliminary information from the SEPA process has not determined any significant findings.

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SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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Subproject L-045H: Currently the office of Chief Counsel of DOE-RL is communicating with legal counsel within the DNR to try to resolve issues delaying the "Right of Entry" permit. A cost and schedule risk assessment is being prepared to determine impacts if permitting is not approved on time to support project completion.

Subproject W-011H: Change request HEC-CCB-592 was submitted to RL requesting TEC increase. Funding to cover the request of \$1.2M is within the authorized HEC Project. There will be no impact to the overall HEC TEC/TPC.

#### SUMMARY ASSESSMENT:

The overall HEC Project is performing well. However, permitting issues which are beyond project management control may impact subproject cost and milestone commitments for Subprojects C-018H and L-045H.

#### COST STATUS:

Until approval of the 1994 FYWP and all cost-account plans, the cost status information provided in this report does not accurately reflect the overall program. Spending for the beginning of the fiscal year is on target with only minor deviations. HEC completed FY 1993 with a total carryover amount of \$82.8M. The capital amount includes approximately \$33.2M of external contractor commitments (L-045H \$6.5M, C-018H \$15.8M, W-011H \$3.2M, W-049H \$5.1M, W-041H \$1.2M, W-291H \$.7M, C-031H, W-007H, and B-680H \$.7M.) The approved workscope of \$49.2M contains contingency in the amount of \$16.7M as a portion of the total HEC project authorized budget and is part of the projected cost (Reference: DOE Order 4700.1, Change 1).

The remaining \$32.5M balance is approved workscope for W-049H (\$12.7M), C-018H (\$8.4M), L-045H (\$2.1M), W-291H (\$.7M), W-041H (\$.7M), W-011H (\$3.7M), C-0-31H (\$1.7M), and W-007H (\$2.5M). Completion of the previously listed subprojects is required to support the HEC Project's mission to bring selected systems and facilities into compliance with current environmental criteria, standards, and regulations and to meet the associated TPA Milestone M-17-00A, Complete Liquid Effluent Treatment Facilities/Upgrades for all Phase I Streams, 06/95 completion date.

A Change Request has been prepared to add the \$398.0K expense funded carryover for FY93 to the FY94 budget to support Subproject W-291H for work planned in FY93 but authorized too late to complete.

#### SCHEDULE STATUS (HQ/RL):

The overall HEC project is on schedule for completion end of fourth quarter FY 95. Unresolved permitting issues on Subprojects C-018H and L-045H may impact the overall HEC Project Completion Milestone.



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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#### TECHNICAL STATUS:

There are no outstanding technical issues affecting the HEC Project baseline.

#### TPA STATUS:

One of two TPA milestones in the HEC Project for FY94 was due in October 1993 and completed on schedule. Some out-year TPA milestones may be at risk due to the permitting issues.

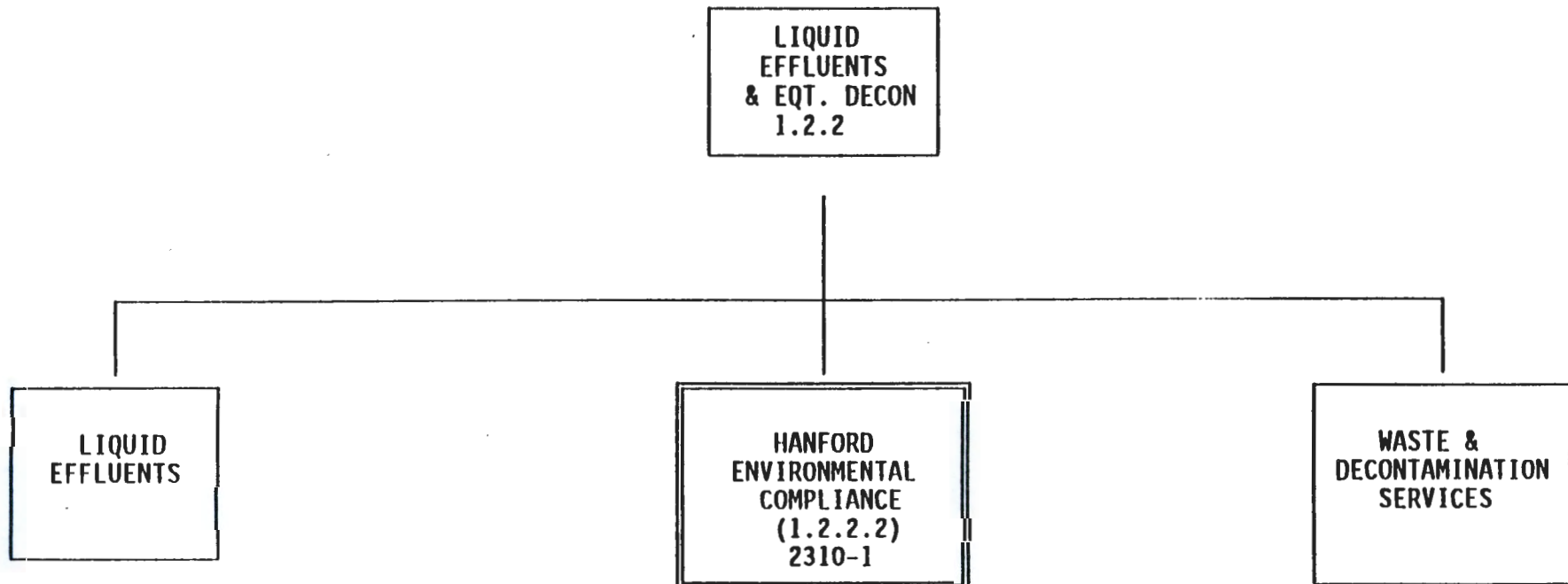
#### MAJOR ACCOMPLISHMENTS:

- The Secretary of Energy approved the HEC Project Plan.
- Subproject W-007H, B Plant Process Condensate Treatment Facility, received KD-3 Start Construction approval.
- FY94 FYWP submitted to RL for review and comment.
- Subproject W-011H Construction Completion recognition event was held.
- W-049H award of disposal system construction contract to Ground Improvement Technology, Inc.

9443199-765

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## WORK BREAKDOWN STRUCTURE



Site Management  
SystemWESTINGHOUSE HANFORD COMPANY  
1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE

NOVEMBER 1993

## PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
1.2.2.2	HEC Project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇	+ ◇	The HEC Project Plan was approved Nov. 8, 1993.
1.2.2.2.1.2	3A6 - B Plant Condensate Treatment Fac. Proj W-007H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Design on schedule. Construction initiated.
1.2.2.2.1.6	3A6 - PFP Liquid LLW System Mod (Project B-680H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction Complete closeout in progress. Schedule for completion Dec. 1993.
1.2.2.2.1.7	3A6 - PFP Liquid ETF (Project C-031H)	◇	◇	◇	◇	◇	Exploratory excavation work in progress to support design.

HECMA/GAL 12-07-93 ARK

- Subprojects W-010H, W-016H, W-017H and W-020H are completed and have been deleted from this report.

## LEGEND

RATING GRADIENT  
SYMBOLS

- ☐ Outstanding  
☐ Good  
☐ Satisfactory  
☐ Marginal  
☐ Unsatisfactory

## INDICATORS

- + Improved from last month  
 -- Worsened from last month  
 ↑ Improved future outlook  
 ↓ Worsened future outlook































*AB Becker*  
WHC Project Manager



Site Management  
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1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE

NOVEMBER 1993

## PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
1.2.2.2.1.9	3A6 - Waste Sampling & Char. Facility (Proj W-011H)					 ↑	Cost exceeded Baseline 1.2M. Change Request submitted to DOE-RL.
1.2.2.2.1.11	3A6 - Environmental Hot Cell Expansion (Proj W-041H)				+  ↑		Approval of the HEC Project Plan Nov. 8, 1993, Rebaselined the Subproject schedule.
1.2.2.2.1.12	3A6 - Effluent Treatment Facility (Project C-018H)	--  ↓					Permit/SEPA process. Disposal & Collection may impact Constr. Completion 6/94.
1.2.2.2.1.13	3A6 - 300 A TEDF (Project L-045H)	--  ↓			 ↓		Permitting may impact Sub-project schedule, 7/94.
1.2.2.2.1.14	3A6 - 200 A TEDF (Project W-049H)						Construction is proceeding ahead of schedule & under budget.
1.2.2.2.1.15	3A6 - 200 A BAT/AKART Implementation (W-291H)						Expense carry-over to cover Definitive Design in progress. Change Request submitted to RL.

HECPMA2.0AL 12-07-93 ARK

## LEGEND

RATING GRADIENT  
SYMBOLS

-  Outstanding  
 Good  
 Satisfactory  
 Marginal  
 Unsatisfactory

## INDICATORS

- + Improved from last month  
 -- Worsened from last month  
 ↑ Improved future outlook  
 ↓ Worsened future outlook

*AB Becker*  
WHC Project Manager

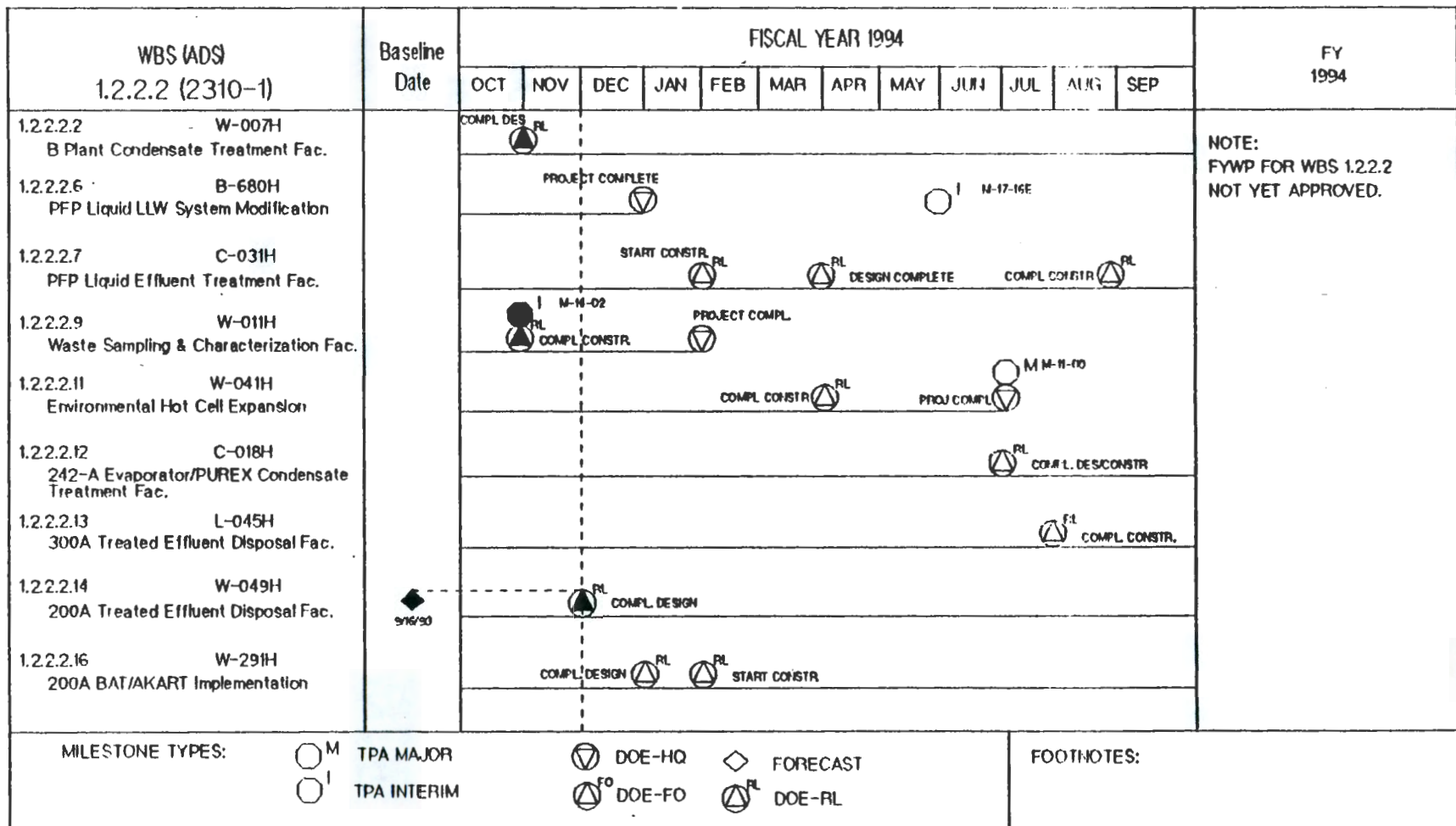
The information contained within this report is complete and accurate to the best of my knowledge.

9413199.1789

Site Management  
SystemWESTINGHOUSE HANFORD COMPANY  
1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE

NOVEMBER 1993

## MILESTONE SCHEDULE



SMSIGAL 2-09-93 ARK

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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### Milestone Achievement

Type		Current Month Milestones			Fiscal Year To-Date Milestones			Remaining Scheduled	FYWP Total
		Scheduled*	Completed	Delinquent	Scheduled*	Completed	Delinquent		
T P A	Major	0	0	0	0	0	0	0	0
	Interim	0	0	0	1	1	0	1	2
D O E	HQ	0	0	0	0	0	0	2	2
	FO	0	0	0	0	0	0	0	0
	RL	1	2	0	2	2	1	8	10
Total		1	2	0	3	3	1	11	14

\*Scheduled milestones reflect the approved baseline.

NOTE: THE FISCAL YEAR WORK PLAN FOR WBS 1.2.2.2 HAS NOT BEEN APPROVED.



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SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## Milestone Exception Report

### FUTURE MILESTONES IN JEOPARDY

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Forecast Completion Date</u>	<u>Cause/Impact/Recovery Plan</u>
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### MILESTONES DUE BUT NOT COMPLETE

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Forecast Completion Date</u>	<u>Cause/Impact/Recovery Plan</u>
HCP-94-009	RL	Complete Design for W-007H, B Plant Process Condensate Treatment Facility	10/93	4/94	Project descoped and schedule being rebaselined.

### MILESTONES COMPLETED EARLY

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Actual Completion Date</u>	<u>Comments</u>
HCP-94-008	RL	Complete disposal system design for W-049H, 200 Area Treated Effluent Disposal Facility	11/93	9/93	

### MILESTONES COMPLETED LATE

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Actual Completion Date</u>	<u>Comments</u>
	RL	Start Construction for W-007H, B Plant Process Condensate Treatment Facility	8/93	11/93	Project was descoped and new schedule being rebaselined.

NOTE: WBS 1.2.2.2 DOES NOT HAVE AN APPROVED FISCAL YEAR WORK PLAN.

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE</b>	<b>NOVEMBER 1993</b>
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## Program Accomplishments

<b><u>WBS</u></b>	
<b>1.2.2.2</b>	<ul style="list-style-type: none"><li>▪ HEC Project Plan approved November 8 by the Secretary of Energy.</li><li>▪ Subproject W-007H received KD-3 approval to start construction.</li></ul>

9413199.1793

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE</b>	<b>NOVEMBER 1993</b>
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**CLASS I CHANGE REQUEST STATUS**

<b>PROGRAM CHANGE NUMBER</b>	<b>WHC CONTROL NUMBER</b>	<b>WBS NUMBER</b>	<b>ORIGI- NATION DATE</b>	<b>DESCRIPTION</b>	<b>COST</b>	<b>SCH EDU LE</b>	<b>TEC HNI CAL</b>	<b>DATE TO RL</b>	<b>STATUS</b>
<b>CURRENT ACTIVITY:</b>									
HEC-CCB-592		1.2.2.2	10/25/93	W-011H, estimate to complete increase	1.2M	N	N	11/5/93	Pending DOE-RL
<b>OTHER INFORMATION:</b>									



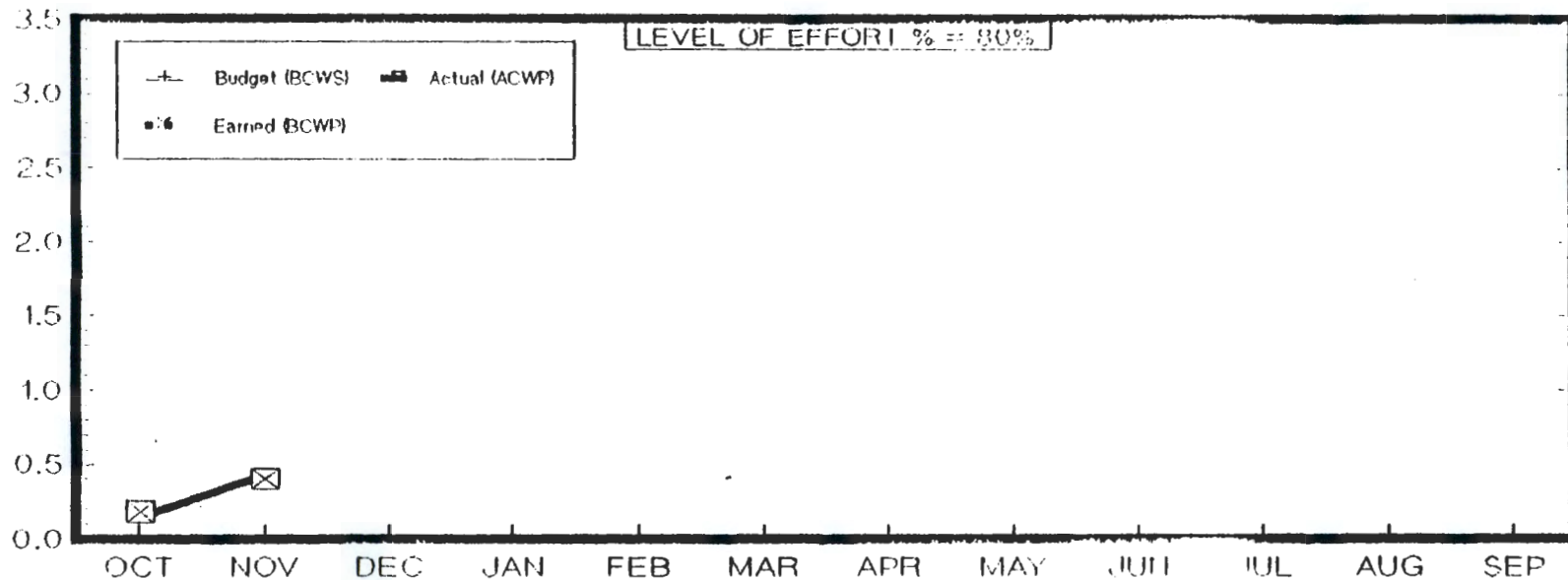
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HANFORD ENVIRONMENTAL COMPLIANCE

NOVEMBER 1993

## EXPENSE COST/SCHEDULE PERFORMANCE

Cumulative to Date Status

\$ in Millions



Financial Plan	0	0										
BCWS	0	0										
BCWP	0	0										
ACWP	.2	.4										
SV	0	0										
CV	(.2)	(.4)										

COSTPER4.GAL 12-07-93 ARK

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE</b>	<b>NOVEMBER 1993</b>
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## EXPENSE COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARIANCE	FYSF	PROJECTED CARRY-OVER WORK-SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
1.2.2.2 (2310-1)	0	0	.4	0	(.4)	0	3.42	(3.42)	3.42	0	FYWP pending DOE-RL approval

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class 1 changes.

FYSF is defined as the estimated total that will be spent from October through September.

9413199.1796

SITE MANAGEMENT  
SYSTEMWESTINGHOUSE HANFORD COMPANY  
1.2.2.2  
HANFORD ENVIRONMENTAL COMPLIANCE

NOVEMBER 1993

**EXPENSE SCHEDULE VARIANCE ANALYSIS**

WBS (ADS)	SCHEDULE VARIANCE \$ __ K	
1.2.2.2 (2310-1)	<u>(Description and Cause:)</u>  No variance analysis is required.	<u>(Impacts and Corrective Action:)</u>



9413199.1797

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE</b>	<b>NOVEMBER 1993</b>
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## EXPENSE COST VARIANCE ANALYSIS

<b>WBS (WBS)</b>	<b>COST VARIANCE \$ __K</b>	
<b>1.2.2.2 (2310-1)</b>	<u>(Description and Cause:)</u> No variance analysis is required.	<u>(Impacts and Corrective Action:)</u>

9413199.1798

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE</b>	<b>NOVEMBER 1993</b>
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## CONSTRUCTION COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	PROJECT TO DATE					AMOUNT AUTH. TO DATE	AT COMPLETION (PROJECT)		COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE			TOTAL ESTIMATED COST	PRESENT WORKING ESTIMATE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST				
1.2.2.2 (2310-1) Hanford Environmental Project	131.5	127.2	122.3	(4.3)	4.9	196.8	214.7	214.7	* \$2.4M disparity between FDS and DISCAS caused by system error and will be corrected.
TOTAL	131.5	127.2	122.3	(4.3)	4.9	196.8	214.7	214.7	

9413199.1799

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## CONSTRUCTION SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(4.3M)*	
1.2.2.2 (2310-1)	<p><u>(Description and Cause:)</u></p> <p>W-041H, ENVIRONMENTAL HOT CELL EXPANSION (\$1.2M). Time required for offsite fabrication of hot cells was not considered in original schedule and a rebaseline request was originally disapproved.</p> <p>W-011H, WASTE SAMPLING AND CHARACTERIZATION FACILITY (\$.10M) Construction has been officially declared complete. However, punchlist items were worked and will be completed in December.</p> <p>L-045H, 300 AREA TREATED EFFLUENT DISPOSAL FACILITY (\$1.0M) Behind schedule due to delays caused by soil contamination uncovered in sump excavation and unplanned, extended resolution of contractors submittals for material and equipment and design changes.</p> <p>C-018H, 242-A EVAPORATOR/PUREX PLANT CONDENSATE TREATMENT FACILITY (\$1.2M) The behind schedule variance is due to the collection system fixed price contractor not starting in November as planned (\$234.7K), the disposal system fixed price contractor not starting as planned (\$297K), and the design/construct fixed price contractor behind (\$1,000K) due to delays caused from lengthy resolutions of unsettled claims.</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>HQ approved HEC Project Plan with new schedule dates. Ecology approved changing Complete Construction, TPA Milestone M-11-00-T1 to March 1994 and it will be met.</p> <p>No impacts from this small variance.</p> <p>Project Completion not affected by current variance</p> <p>Revised schedule (new schedule due 12/7/93) will not jeopardize June 94 completion.</p>

\*All dollar amounts are cumulative project-to-date.

XII-2.1



SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## CONSTRUCTION COST VARIANCE ANALYSIS

WBS (WBS)	COST VARIANCE \$5.5M*	
1.2.2.2 (2310-1)	<p><u>(Description and Cause:)</u></p> <p>W-011H, WASTE SAMPLING AND CHARACTERIZATION FACILITY (Construction) \$1.7M. Variance caused by late payment of construction contractor bills and an \$850K commitment for project lab-core computer purchase has not been costed. Project required additional effort to complete construction to meet TPA milestone.</p> <p>W-011H, WASTE SAMPLING AND CHARACTERIZATION FACILITY (Equipment) (\$.7). Credit for late arrival of equipment was not taken in time for month-end reporting.</p> <p>L-045H, 300 AREA TREATED EFFLUENT DISPOSAL FACILITY. (\$.7M) Cost variance due to an error in inputting November's accrual for fixed price construction contractor</p> <p>C-018H, 242A EVAPORATOR/PUREX PLANT CONDENSATE TREATMENT FACILITY \$2.1M Variance has been adjusted by \$2,353.9K from FDS to the numbers reported on DISCAS due to a system error. Remaining variance of \$2,148.5K is due to work not costed due to claim negotiations.</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>Efforts are ongoing to cost the computer labcore commitment in the FDS. Change Request HEC-CCB-592 to increase the TEC by \$1.6M is pending RL Approval.</p> <p>This variance should be self-correcting.</p> <p>Meeting is scheduled with KEH to discuss accrual problems and solutions. Project completion not affected by current variance.</p> <p>This variance will not jeopardize June 1994 completion.</p>

\* All dollar amounts are cumulative project to date.

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 1.2.2.2 HANFORD ENVIRONMENTAL COMPLIANCE	NOVEMBER 1993
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## ISSUES

WBS NO.	DATE IDENT	ISSUE	IMPACT	STATUS
93-7	Aug 1993	TPA Milestones impacted by delay in Subproject C-018H SEPA approval by Ecology for disposal system.	Construction delays and possible impact to completion date schedule.	Ecology indicated SEPA approval for disposal system will be delayed until 12/93. Request for bids to construct State Approved Land Disposal Systems (SALDS) was issued 9/30/93. Concurrences were obtained from Ecology and RL to proceed with issuance for bids but not begin construction until SEPA process is finalized. Bid opening scheduled for mid-December.
1.2.2.2 -1	Oct 1993	Cost overrun of \$1.2M to complete construction on W-011H.	Subproject TEC increase required.	Change Request HEC-CCB-592 issued to RL requesting TEC increase. Pending RL approval.
1.2.2.2 -2	Nov 1993	L-045H Right of Entry permit for the outfall.	Delay of construction completion. TPA-M-17-09 12/94 extension required.	WA State DNR is 4 weeks late in transmitting Draft permit. This delays issuance of 401 Review for Construction by WA State Ecology and Dredge and Fill permit issuance.



**WESTINGHOUSE HANFORD COMPANY  
SITE MANAGEMENT SYSTEM**

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**PROGRAM**

**ENVIRONMENTAL RESTORATION**

**2.0**

**PROGRAM MANAGERS**

**T. M. WINTCZAK, WHC  
Phone: 372-2314**

**R. D. FREEBERG, DOE-RL  
Phone: 376-7277**

**DECEMBER 1993**



## Program Executive Summary

### PROBLEMS/ISSUES/CONCERNS:

BOA contracts for support to the ER Program that expire at the end of FY 1994 have not been re-bid pending award of the ERMIC.

In response to the Tri-Party Agreement, the N Area is being consolidated into a single project including CERCLA, RCRA, D&D, and Reactor Shutdown.

Compliance with DOE Order 5480.13A, Aviation Safety, has delayed site flyover activities and increased costs.

Contaminated soil was inadvertently disposed of in the Richland Landfill on November 18, 1993. The disposal was discovered on December 21, 1993 and a occurrence notification completed.

### CORRECTIVE ACTIONS:

A RFP for a remediation BOA has been submitted to DOE for approval.

Negotiations are underway with the regulators. A change request will be submitted to the regulators defining workscope and establishing milestones.

A waiver from this order has been requested.

The USACE and WHC team is conducting an investigation on the occurrence. The State of Washington is conducting a similar investigation to determine if any legal ramifications of the action are necessary.

### SUMMARY ASSESSMENT:

Good progress is being accomplished on prototype barrier activities. Construction of the retention basin and grouting of the distribution line at the 216-B-57 Crib for the barrier were completed. The contract for construction of the barrier was awarded and site preparation activities initiated.

### COST STATUS:

The Environmental Restoration (ER) FYTD (December) BCWS is \$41.3M, the BCWP is \$37.7M, and the ACWP is \$35.8M, resulting in an unfavorable schedule variance of \$3.6M, and a favorable cost variance of \$1.9M. The schedule variance is due primarily to: (1) cancellation of a proposed PNL contract for biodegradation and workscope related to the nitrate treatability issue is being redefined; (2) interim surface stabilization of outdoor radiation areas is behind schedule because of

940399-003

COST STATUS (Continued):

staff shortages and personnel supporting higher priority work; (3) the Hexone Storage and Treatment Facility closure plan document/revision remains on hold until Ecology assigns a monitor to the project; (4) delays in the soil washing tests in the 300-FF-1 OU area due to the unwillingness of the vendor to take soil washing system into the zone; (5) delays in placing contracts for several N Reactor deactivation plans because of difficulties in contract negotiations; (6) negotiations on technical issues regarding preparation of Hanford Specific Standards for an X-ray fluorescence unit resulted in delaying the award of the contract to the second quarter of FY 1994; (7) planning has not yet been revised to reflect the newly-developed schedules for the 325 Laboratory upgrades; and (8) Yakima Borehole activities have been detained due to a delay in delivery of necessary equipment.

The cost variance is due primarily to:

(1) procurement of equipment ordered in the fourth quarter of FY 1993 was completed and costed in FY 1994 (carryover budget from FY 1993 has been requested but not yet received); (2) construction budget for the B-Pond Bypass project committed in FY 1993 was costed in FY 1994 and carryover budget has not yet been received; (3) costs for the planned N Reactor Security Transition Program Office have not yet been received; (4) costs not yet received for prototype barrier activities performed by PNL will be received once the Statement of Work for PNL activities is finalized; (5) costs for the W-025 Facility construction not yet received due to the billing cycle of the contractor are expected to continue to lag but at a decreasing amount.

SCHEDULE STATUS (HQ/RL):

The following five RL milestones were completed in December: (1) Provide Quarterly Procurement Plan Updates/forecasts on all ERO CENRTC Activities; (2) Provide Quarterly Work Performance Report against the Asbestos Abatement Plan (AAP); (3) Issue Plan to Implement Prioritized Corrective Actions; (4) Issue Final Fiscal Year 1994 Work Plan to RL; and (5) Submit Rev-1 Closure Plan to EPA/Ecology for Clean Closure of Lobes A, B, & C for Public Review. The following two HQ milestones were completed in December; (1) Submit 1100-EM-1 Remediation Proposed Plan to EPA/Ecology and (2) Issue Final Surveillance and Maintenance Report for FY 1993. RL milestone "Complete FY 1994 HMP Volume 2 Integration Analysis to RL"



SCHEDULE STATUS (HQ/RL)  
(Continued):

was not completed in December as scheduled. A change request will be prepared deleting this milestone per direction from RL.

TECHNICAL STATUS:

The 1100 Area Remediation and the Preliminary Assessment Screening Work Plans have been completed and are under review.

The RFP was issued for tank construction in support of the commercial borehole geophysics work.

A public meeting was held with EPA, Ecology, and stakeholders to get input on the scope of the risk assessment for the Columbia River Study.

Asphalt testing was initiated and preparations were made for off-site RCRA comparison tests for the Hanford Barriers project.

Eighty through ninety percent of the physical hazard removal work has been completed.

There is potential for performing characterization and remediation simultaneously with significant cost schedule savings.

TPA STATUS:

Tri-Party Agreement interim milestone M-15-03B, "Submit Soil Washing Treatability Test Report Remedial Investigation Phase 2 Draft Report to EPA/Ecology" was completed in December on schedule.

MAJOR ACCOMPLISHMENTS:

The 216-B-3 Expansion Ponds Closure Plan, Revision 1, was transmitted to Ecology for review and approval in accordance with the December 15, 1993 commitment date. Installation of 3400 feet of piping for the B Pond By-Pass Project X-009 was completed. Since restart of the Vapor Extraction System 511 pounds of carbon tetrachloride has been extracted for a total of 10,015 pounds. Demolition of the 190-B Facility structural steel frame was completed and removal of building material initiated. Removal of concrete panels and installation of the new steel roof over the 105-F Facility transfer bay was completed. The 1994 Fiscal Year Work Plan was approved and released for public review.

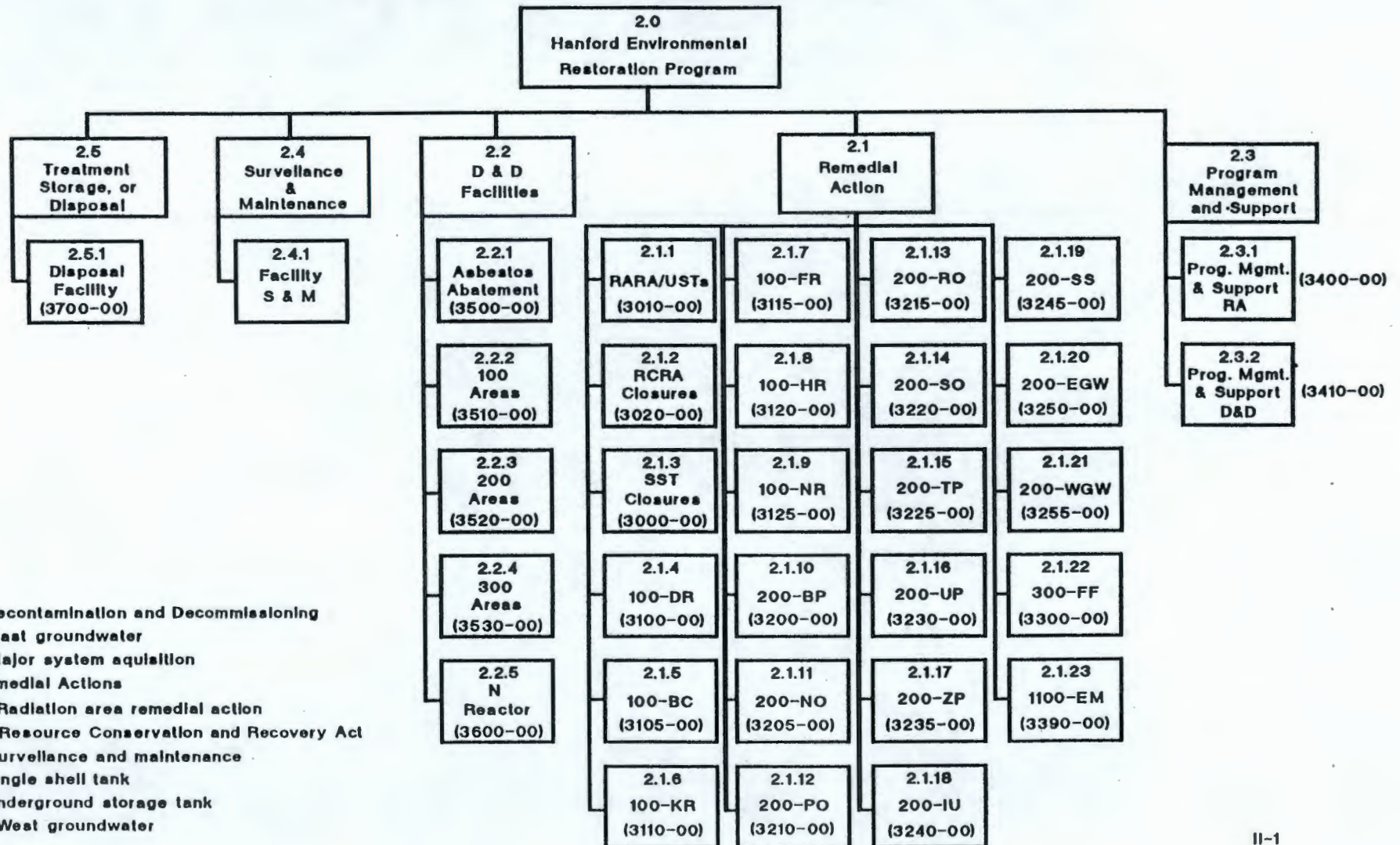
NOTE: The ER Program Manager signature applies only to that portion of the report directly managed by WHC.

The accuracy and completeness are limited to the material contained within the report as summarized by the Financial Data System (FDS). The accuracy and completeness of the reporting is limited by the input to the FDS. Incomplete or inaccurate data could be entered during the reporting and due to the summary level of the report may not be apparent.

9413199.1805



# ENVIRONMENTAL RESTORATION PROGRAM FY93 WORK BREAKDOWN STRUCTURE



9413199.1807

SITE MANAGEMENT  
SYSTEM

WESTINGHOUSE HANFORD COMPANY  
2.0 ENVIRONMENTAL RESTORATION PROGRAM

DECEMBER 1993

## PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
2.1	REMEDIAL ACTIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇	◇	
2.2	D & D FACILITIES	<input type="checkbox"/>	<input type="checkbox"/>	◇ ↑	<input type="checkbox"/>	◇	
2.3	PROGRAM MANAGEMENT AND SUPPORT	<input type="checkbox"/>	<input type="checkbox"/>	◇	◇	◇	
2.5	TREATMENT, STORAGE OR DISPOSAL	+ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	◇	◇ ↑	

### LEGEND

#### RATING GRADIENT SYMBOLS

- ☒ Outstanding
- ☐ Good
- ◇ Satisfactory
- Marginal
- ☒ Unsatisfactory

#### INDICATORS

- + Improved from last month
- Worsened from last month
- ↑ Improved future outlook
- ↓ Worsened future outlook

T. M. WINTCZAK  
WHC Program Manager

*T. M. Wintczak*

The information contained within  
this report is complete and  
accurate to the best of my  
knowledge.



9413199-1808

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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## PROGRAM MANAGER'S OVERALL ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H Comply	Customer	Technical	Schedule	Cost	Comments
2.0	ENVIRONMENTAL RESTORATION PROGRAM	□	□	□	◇	◇	

LEGEND			
RATING GRADIENT SYMBOLS		INDICATORS	
■	Outstanding	+	Improved from last month
□	Good	—	Worsened from last month
◇	Satisfactory	↑	Improved future outlook
○	Marginal	↓	Worsened future outlook
●	Unsatisfactory		

T. M. WINTCZAK  
WHC Program Manager

*T. M. Wintczak*







The information contained within this report is complete and accurate to the best of my knowledge.



9413199.1809

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2.1.1.2 (3010-0) RARA/USTs														
2.1.2.7 (3020-0) RCRA Closures														
2.1.2.9 (3020-0) RCRA Closures														
2.1.4.1 (3100-0) Remedial Actions 100-DR-1														
2.1.4.2 (3100-0) Remedial Actions 100-DR-2														
2.1.5.1 (3105-0) Remedial Actions 100-BC-1														
2.1.6.1 (3110-0) Remedial Actions 100-KR-1	05/31/93													
<b>MILESTONE TYPES:</b>  TPA MAJOR  TPA INTERIM		 DOE-HQ  DOE-FO  FORECAST  DOE-RL												<b>FOOTNOTES:</b>

9413199-1810

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2.1.6.2 (3110-0) Remedial Actions 100-KR-2								RL 1PC-94-003 Submit 100-KR-2 Operable Unit Work Plan to EPA/Ecology						
2.1.6.2 (3110-0) Remedial Actions 100-KR-4					I 1PC-94-004 M-15-11B Submit 100-KR-4 Limited Field Investigation to EPA/Ecology									
2.1.7.1 (3115-0) Remedial Actions 100-FR-1	09/17/93		I 1PD-94-001 M-15-13A Submit 100-FR-1 Validated Data to EPA/Ecology									I 1PD-94-002 M-15-13B Submit 100-FR-1 Limited Field Investigation to EPA/Ecology	I	
2.1.7.3 (3115-0) Remedial Actions 100-FR-3								I 1PD-94-003 M-15-13F Submit 100-FR-3 Limited Field Investigation to EPA/Ecology						
2.1.7.4 (3115-0) Remedial Actions 100-IU-3												I 1PD-94-004 Submit North Slope - ERA Cleanup/closeout Documentation to EPA/Ecology	RL	
2.1.8.1 (3120-0) Remedial Actions 100-HR-1			I 1PE-94-010 M-15-05B Complete 100-HR-1 Treatability Test Activities				I 1PE-94-001 M-15-05C Submit 100-HR-1 Focused Feasibility Study to EPA/Ecology						I	
2.1.8.3 (3120-0) Remedial Actions 100-HR-3			I 1PE-94-002 M-15-05D Submit 100-HR-1 IRM Proposed Plan to EPA/Ecology			I 1PE-94-006 M-15-06B Complete 100-HR-3 Treatability Study Activities	I 1PE-94-007 M-15-06E Begin 100-HR-3 Pump and Treat Operations						I	
						I 1PE-94-004 M-15-06C Submit 100-HR-3 Focused Feasibility Study to EPA/Ecology							I	
				I 1PE-94-005 M-15-06D Submit 100-HR-3 IRM Proposed Plan to EPA/Ecology									I	
MILESTONE TYPES:														FOOTNOTES:



TPA MAJOR  
TPA INTERIM



DOE-HQ  
DOE-FO  
DOE-RL



FORECAST  
DOE-RL

9413199 1811

SITE MANAGEMENT  
SYSTEM

WESTINGHOUSE HANFORD COMPANY  
2.0 ENVIRONMENTAL RESTORATION PROGRAM

DECEMBER 1993

## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2.1.10.1 (3200-0) Remedial Actions 200-BP-1					○	1PL-94-001 M-15-02E Submit Constructability Report on the Hanford Barrier Prototype Demo at 216-B-57								
2.1.10.5 (3200-0) Remedial Actions 200-BP-5						1PL-94-002 M-13-06 Submit 200-BP-5 Draft Treatability Test Plan to EPA/Ecology	○				1PL-94-003 M-13-06A Initiate 200-BP-5 Pilot Scale Pump & Treat Operations	○		
2.1.10.10 (3200-0) Remedial Actions 200-BP-11									○	1PL-94-004 M-13-07 Submit Integrated 200-BP-11 Source OU and 216-B-3 Pond Work and Closure Plan to EPA/Ecology				
2.1.12.1 (3210-0) Remedial Actions 200-PO-1											1PN-94-001 Submit Draft 200-PO-1 LFI Work Plan to EPA/Ecology			⊗
2.1.16.1 (3230-0) Remedial Actions 200-UP-1									○	1PT-94-001 M-13-02A Initiate 200-UP-1 Pilot Scale Pump and Treat Operations				
2.1.16.2 (3230-0) Remedial Actions 200-UP-2											1PT-94-002 Submit 200-UP-2 Validated Data to EPA/Ecology			⊗
2.1.17.1 (3235-0) Remedial Actions 200-ZP-1									○	1PU-94-001 M-13-04A Initiate 200-ZP-1 Pilot Scale Pump and Treat Operations				
2.1.22.1 (3300-0) Remedial Actions 300-FF-1											1P2-94-002 M-15-03B Submit Soil Washing Treatability Test Report (Remedial Investigation Phase II Draft Report) to EPA/Ecology			
											1P2-94-001 M-15-03C Submit 300-FF-1 Draft Feasibility Study Phase 3 Report to EPA/Ecology			○
MILESTONE TYPES:														FOOTNOTES:



## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2.1.22.1 (3300-0) Remedial Actions 300-FF-2		1P2-94-003 M-15-14 Submit Draft 300-FF-2 LFI Work Plan to EPA/Ecology												I
2.1.22.5 (3300-0) Remedial Actions 300-FF-5		1P2-94-004 M-15-04B Submit 300-FF-5 Draft RI Phase 2 Report to EPA/Ecology												I
2.1.23.1 (3390-0) Remedial Actions 1100-EM-1		1P3-94-001 Submit 1100-EM-1 Remediation Proposed Plan to EPA/Ecology												
2.1.23.6 (3390-0) Remedial Actions Arid Lands		1P3-94-002 Cleanup ARID Lands Ecology Facility and provide Closeout Documentation												
		1EA-94-002 Issue Final Fiscal Year 1994 Work Plan to RL												
		1EA-94-007 Transmit Draft FY 1994 HMP Vol 2 Integration Analysis to RL												
		1EA-94-011 Complete FY 1995 HMP Vol 1, Site Guidance to RL												
		1EA-94-009 Complete Hanford Strategic Analysis												
		1EA-94-008 Complete FY 1994 HMP Vol 2 Integration Analysis to RL												
		1EA-94-010 Transmit Draft FY 1995 HMP VOL 3, Site Guidance to RL												
2.3.1.1 (3400-0) Program Management & Support (Remedial Actions)														
2.3.1.2 (3400-0) Program Management & Support (QA Self-Assessment Program Development)														
2.3.1.4 (3400-0) Program Management & Support (Technology Adaptation)														





9413199-1814

SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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## MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1994												FY 1995	
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
2.2.3.10 (3520-0) D & D 200-RO-3  2.2.3.15 (3520-0) D & D 200-ZP-1  2.2.5.3 (3600-0) N Reactor Regulatory Response  2.5.1.1 (3700-0) Long Term Disposal Facilities and Equipment - ERDF					1UE-94-001 Initiate 233-S Site Preparation RL									1UE-94-002 Initiate 233-S Exterior Work RL	
		1UE-94-003 Obtain Regulatory Approval RL													
					1UN-94-001 Transmit N Reactor Shoreline Dose Reduction Environmental Assessment to RL RL										
					1CF-94-001 Complete Conceptual Design Report for (W-296) Trench RL										
MILESTONE TYPES:		M I		TPA MAJOR TPA INTERIM		RL FO		DOE-HQ DOE-FO		RL DOE-RL		FO DOE-RL		FOOTNOTES:	



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<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## Milestone Achievement

Type		Current Month Milestones			Fiscal Year To-Date Milestones			Remaining Scheduled	FYWP Total
		Scheduled*	Completed	Delinquent	Scheduled*	Completed	Delinquent		
T P A	Major	0	0	0	0	0	0	0	0
	Interim	1	1	0	7	7	0	25	33
D O E	HQ	2	2	0	2	2	0	8	10
	FO	0	0	0	0	0	0	0	0
	RL	6	5	1	7	5	2	29	36
Total		9	8	1	16	14	2	62	79

NOTE: Scheduled milestones are those milestones that reflect approved baseline.

9413199 1816

SITE MANAGEMENT  
SYSTEMWESTINGHOUSE HANFORD COMPANY  
2.0 ENVIRONMENTAL RESTORATION PROGRAM

DECEMBER 1993

**FY 1994 MILESTONE EXCEPTION REPORT****FUTURE MILESTONES IN JEOPARDY**

<u>NUMBER</u>	<u>TYPE</u>	<u>TITLE</u>	<u>SCHEDULED DATE</u>	<u>FORECAST ESTIMATED COMPLETION</u>	<u>CAUSE, IMPACT AND RECOVERY PLAN</u>
2.1.10	TPA	Submit Constructability Report on the Hanford Barrier Prototype at 216-B-57 to the Regulators	15Jan94	31Jul94	Delays due to negotiations on barrier size, procurement, and public involvement cycle. Change Request M-15-93-01 is in the signature cycle. No Impact.

**MILESTONES DUE BUT NOT COMPLETE**

<u>NUMBER</u>	<u>TYPE</u>	<u>TITLE</u>	<u>SCHEDULED DATE</u>	<u>FORECAST ESTIMATED COMPLETION</u>	<u>CAUSE, IMPACT AND RECOVERY PLAN</u>
2.3.1	RL	Transmit ER portion of the draft FY 94 HMP vol 2 integration analysis to RL	30Nov93	Delete	Per RL direction, WHC will prepare a change request deleting these milestones. No Impact.
2.3.1	RL	Complete ER portion of the FY 94 HMP vol 2 integration analysis	31Dec93	Delete	

**MILESTONES COMPLETED EARLY**

<u>NUMBER</u>	<u>TYPE</u>	<u>TITLE</u>	<u>SCHEDULED DATE</u>	<u>ACTUAL COMPLETION DATE</u>	<u>CAUSE, IMPACT AND RECOVERY PLAN</u>
		none			

**MILESTONES COMPLETED LATE**

none



9413199.1817

**SITE MANAGEMENT  
SYSTEM****WESTINGHOUSE HANFORD COMPANY  
2.0 ENVIRONMENTAL RESTORATION PROGRAM****DECEMBER 1993**

## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.1.2</b>	<b>RCRA CLOSURES</b>  Issued the final report for Shallow Probe NRDWL Soil Gas Characterization  Transmitted the 216-B-3 Expansion Ponds Closure Plan, Revision 1 to Ecology for review and approval in accordance with the December 15, 1993 commitment date. All NOD comments have been resolved  Completed installation of 3400 feet of piping for the B Pond By-Pass Project X-009
<b>2.1.4</b>	<b>100-DR OPERABLE UNITS</b>  Dispositioned/incorporated regulator comments on the 100-DR-1 OU Limited Field Investigation (LFI) and Qualitative Risk Assessment (QRA) and submitted it to RL and the regulators for review and approval



<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.1.5</b>	<b>100-BC OPERABLE UNITS</b>  Dispositioned/incorporated regulator comments on the 100-BC-2 OU Work Plan and submitted it to RL and the regulators for approval  Submitted the 116-C-2A Pluto Crib samples validation report to RL  Submitted the 100-BC-1 OU Soil Washing Laboratory test report to RL for review (100-BC-2 OU)
<b>2.1.6</b>	<b>100-KR OPERABLE UNITS</b>  RL and the regulators approved a reduced analyte list for the 100-KR-4 OU fifth round groundwater sampling analysis  Submitted the 100-KR-4 OU QRA and LFI draft reports to RL for transmittal to the regulators

9413199-1819

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.1.8</b>	<b>100-HR OPERABLE UNITS</b>  Completed soil gas surveys at the 128-H-1 burn pit in the 100-HR-2 OU  Dispositioned/incorporated RL comments on the Chemical Precipitation/Ion Exchange test results and submitted the report to RL for review
<b>2.1.10</b>	<b>200-BP OPERABLE UNITS</b>  Completed construction of the retention basin and grouting of the distribution line at the 216-B-57 Crib for the prototype barrier in the 200-BP-1 OU  Awarded the contract for construction of the prototype barrier and initiated site preparation activities  Issued the first draft of the 200-BP-5 Treatability Test Plan to RL and HQ for review

<b>SITE MANAGEMENT SYSTEM</b>	<div data-bbox="1186 28 1438 87" data-label="Text">9413199-1820</div> <b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## PROGRAM ACCOMPLISHMENTS

<u>WBS</u>	
2.1.16	<p><b>200-UP OPERABLE UNITS</b></p> <p>Completed groundwater well usability testing at the 200-UP-1 OU, resulting in selection of wells for the pump and treat treatability test</p> <p>Submitted a Description of Work (DOW) for well drilling to support characterization activities at 200-UP-1 OU to the regulators for review</p>
2.1.17	<p><b>200-ZP OPERABLE UNITS</b></p> <p>Dispositioned/incorporated regulator comments on the 200-ZP-1 OU Interim Remedial Measure Proposed Plan, Revision 0, and submitted the plan to the regulators</p> <p>Extracted 511 pounds of carbon tetrachloride since restart of the Vapor Extraction System (VES) at the 216-Z-1A site in the 200-ZP-2 OU. A total of 10,015 pounds has been extracted</p>



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<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.1.22</b>	<b>300-FF OPERABLE UNITS</b>  Submitted the 300-FF-1 OU "Soil Washing Treatability Test Report - Remedial Investigation (RI) Phase II Draft Report to EPA/Ecology," completing Tri-Party Agreement Milestone M-15-03B  Issued the final 300-FF-1 OU RI Phase I and Feasibility Study (FS) Phase I and II reports to the regulators
<b>2.1.23</b>	<b>1100 OPERABLE UNITS - USACE</b>  The 1100 Area Remediation and Preliminary Assessment screening work plans have been completed and are under review
<b>2.2.1</b>	<b>ASBESTOS ABATEMENT</b>  Completed the first quarterly Asbestos Abatement Plan

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<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## PROGRAM ACCOMPLISHMENTS

<b><u>WBS</u></b>	
<b>2.2.2</b>	<b>100 AREA D&amp;D</b>  Completed detonation of the 190-B Facility structural steel frame and initiated removal of building material from the site  Completed concrete panel removal and installation of the new steel roof over the 105-F Transfer Bay  Initiated removal of concrete panels over the 105-F Fuel Storage Basin
<b>2.2.3</b>	<b>200 AREA D&amp;D</b>  Received approval from EPA and WDOH to initiate characterization at the 233-S Plutonium Concentration Facility
<b>2.2.5</b>	<b>N REACTOR</b>  Completed the N Basin Value Engineering Study for cleanout requirements  Completed the Waste Water Pretreatment Study which evaluates the requirements for shipping the N Basin water for processing and disposal

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<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.3.1</b>	<b>PROGRAM MANAGEMENT - RL</b>  <b>The RFP was issued for tank construction in support of the commercial borehole geophysics work</b>  <b>A public meeting was held with EPA, Ecology, and stakeholder to get input on the scope of the risk assessment for the Columbia River Study</b>  <b>Asphalt testing was initiated and preparations were made for off-site RCRA comparison test for the Hanford Barrier project</b>  <b>Completed cost estimates for remedial design and remedial actions for the entire project</b>



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<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.3.1</b>	<b>PROGRAM MANAGEMENT, LABORATORY/FACILITY, SYSTEMS, AND EQUIPMENT UPGRADES</b>  <b>Approved and released the FY 1994 Fiscal Year Work Plan (FYWP) for public review</b>  <b>Completed entry of CERCLA data backlog into the Hanford Environmental Information System (HEIS)</b>  <b>WSU-Tri-Cities developed a three-year class to augment DOE's Environmental Education Strategic Plan</b>  <b>Coordinated completion of and received cost estimates for remedial action from Project Time and Cost</b>  <b>Continued development of the Optimized Baseline Plan (OBP) and supported DOE on a presentation to the regulators</b>

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## **PROGRAM ACCOMPLISHMENTS**

<b><u>WBS</u></b>	
<b>2.5.1</b>	<b>DISPOSAL FACILITY - USACE</b>  <b>Engineering studies on Source Inventory Development and Load/Deformation completed and is under review</b>  <b>Draft conceptual design report completed and is under review</b>

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**CLASS I CHANGE REQUEST STATUS**

<b>PROGRAM CHANGE NUMBER</b>	<b>WHC SEQUENCE NUMBER</b>	<b>WBS NUMBER</b>	<b>ORIGI- NATION DATE</b>	<b>DESCRIPTION</b>	<b>COST</b>	<b>SCH EDU LE</b>	<b>TEC HNI CAL</b>	<b>DATE TO RL</b>	<b>STATUS</b>
<b>CURRENT ACTIVITY:</b>									
				No activity in December					
<b>OTHER INFORMATION:</b>									
EEW-E94-002	TBD	2.0	12/30/93	Request for FY 1993 Carryover	21.6M				Submittal expected in mid-January

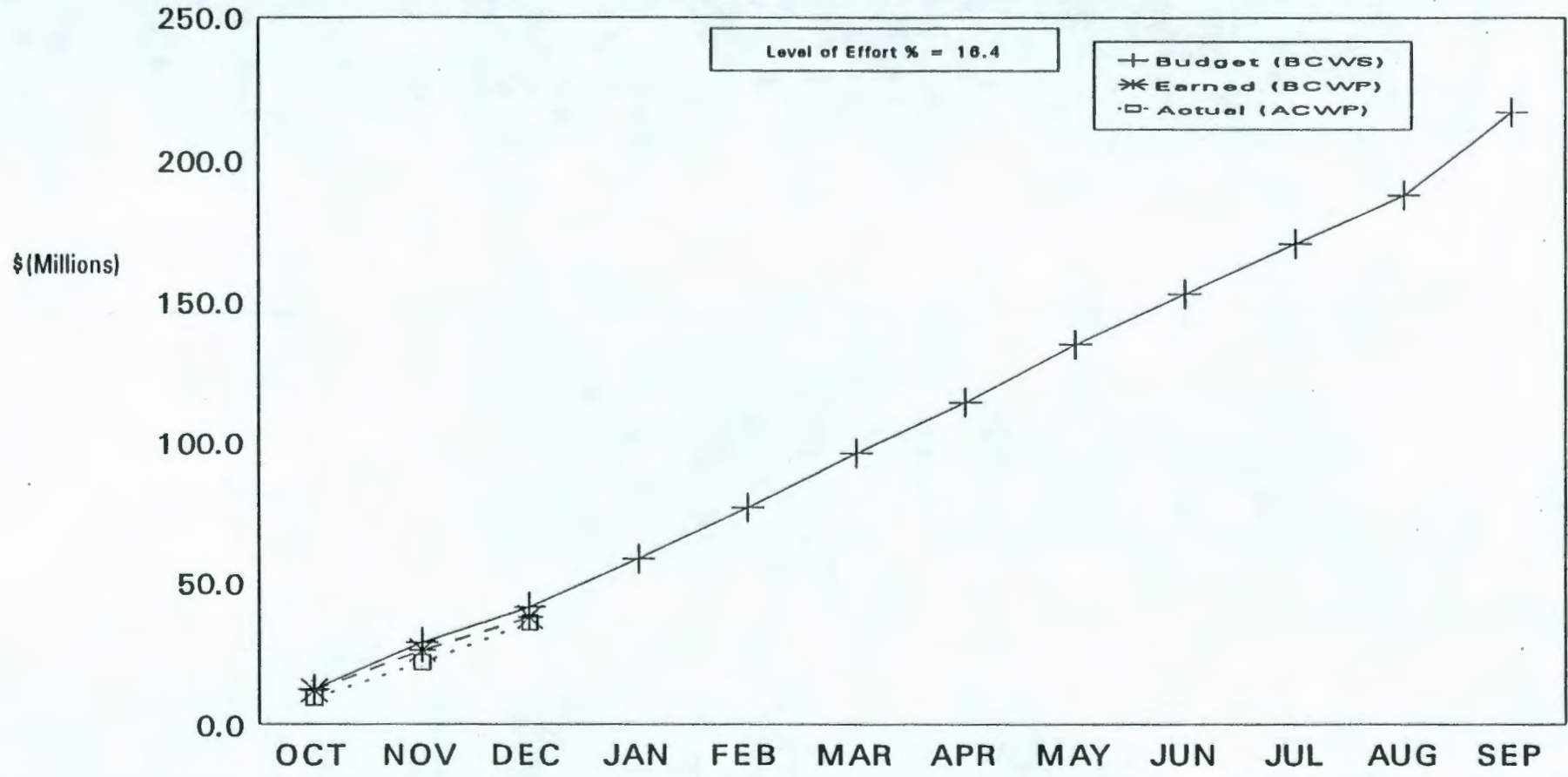


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SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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# EXPENSE COST/SCHEDULE PERFORMANCE

Cumulative to Date Status



Financial Plan	12.4	186.7	197.4									
Budget (BCWS)	12.4	28.9	41.3	58.4	76.6	96.0	114.4	135.0	153.0	170.7	187.9	217.1
Earned (BCWP)	11.9	26.1	37.7									
Actual (ACWP)	9.3	21.8	35.8									
SV	(0.5)	(2.8)	(3.6)									
CV	2.6	4.3	1.9									

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## EXPENSE COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARI- ANCE	FYSF	PROJECTED CARRY- OVER WORK- SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
2.1 WHC Remedial Actions											
2.1.1 (3010) RARA/USTs	1.5	1.2	1.5	(0.3)	(0.3)	7.3	7.3	0.0	7.3		
2.1.2 (3020) RCRA Closures	1.0	0.6	0.8	(0.4)	(0.2)	4.3	4.3	0.0	4.3		
2.1.3 (3000) SST Closures	0.0	0.1	0.1	0.1	0.0	0.4	0.4	0.0	0.4		
2.1.4 (3100) 100-DR OUs	0.2	0.2	0.2	0.0	0.0	1.2	1.2	0.0	1.2		
2.1.5 (3105) 100-BC OUs	0.7	0.6	0.6	(0.1)	0.0	3.9	3.9	0.0	3.9		
2.1.6 (3110) 100-KR OUs	0.4	0.3	0.4	(0.1)	(0.1)	2.1	2.1	0.0	2.1		
2.1.7 (3115) 100-FR OUs	0.7	0.6	0.5	(0.1)	0.1	4.4	4.4	0.0	4.4		
2.1.8 (3120) 100-HR OUs	3.4	2.6	2.8	(0.8)	(0.2)	17.8	17.8	0.0	17.8		
2.1.9 (3125) 100-NR OUs	0.5	0.7	0.6	0.2	0.1	2.9	2.9	0.0	2.9		
2.1.10 (3200) 200-BP OUs	1.4	1.3	1.4	(0.1)	(0.1)	11.3	11.3	0.0	11.3		
2.1.12 (3210) 200-PO OUs	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.3		
2.1.16 (3230) 200-UP OUs	1.8	1.6	1.7	(0.2)	(0.1)	11.6	11.6	0.0	11.6		
2.1.17 (3235) 200-ZP OUs	1.7	1.4	1.3	(0.3)	0.1	9.8	9.8	0.0	9.8		
2.1.22 (3300) 300-FF OUs	1.0	0.8	0.9	(0.2)	(0.1)	4.8	4.8	0.0	4.8		

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.  
 FYSF is defined as the estimated total that will be spent from October through September.



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SITE MANAGEMENT SYSTEM	WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM	DECEMBER 1993
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## EXPENSE COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARI- ANCE	FYSF	PROJECTED CARRY- OVER WORK- SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
2.1 WHC Remedial Actions											
Total WHC Remedial Actions	14.3	12.0	12.8	(2.3)	(0.8)	82.1	82.1	0.0	82.1		
2.1 USACE Remedial Actions											
2.1.7 (3115) 100-FR OUs	0.2	0.1	0.1	(0.1)	0.0	2.0	2.0	0.0	2.0		
2.1.23 (3390) 1100-EM OUs	0.5	0.4	0.4	(0.1)	0.0	7.6	7.6	0.0	7.6		
Total USACE Remedial Actions	0.7	0.5	0.5	(0.2)	0.0	9.6	9.6	0.0	9.6		
2.1 TOTAL Remedial Actions	15.0	12.5	13.3	(2.5)	(0.8)	91.7	91.7	0.0	91.7		
2.2 WHC D&D											
2.2.1 (3500) Asbestos Abate	0.3	0.3	0.3	0.0	0.0	2.1	2.1	0.0	2.1		
2.2.2 (3510) 100 Area D&D	2.3	2.0	3.2	(0.3)	(1.2)	12.1	12.1	0.0	12.1		
2.2.3 (3520) 200 Area D&D	1.2	1.1	1.0	(0.1)	0.1	6.8	6.8	0.0	6.8		
2.2.5 (3600) N Reactor	5.2	4.7	3.7	(0.5)	1.0	21.0	21.0	0.0	21.0		
Total WHC D&D	9.0	8.1	8.2	(0.9)	(0.1)	42.0	42.0	0.0	42.0		

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.  
 FYSF is defined as the estimated total that will be spent from October through September.



9413199-1830

<b>SITE MANAGEMENT SYSTEM</b>	<b>WESTINGHOUSE HANFORD COMPANY 2.0 ENVIRONMENTAL RESTORATION PROGRAM</b>	<b>DECEMBER 1993</b>
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## EXPENSE COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARI- ANCE	FYSF	PROJECTED CARRY- OVER WORK- SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
2.1 WHC Remedial Actions											
2.3 WHC Program Mgmt.											
2.3.1 (3400) Prog. Mgmt.- RAs	5.2	5.1	4.2	(0.1)	0.9	26.3	26.3	0.0	26.3		
2.3.1 (3400) Lab/Fac/Sys/Equip Support	4.7	4.2	3.9	(0.5)	0.3	23.4	23.4	0.0	23.4		
2.3.2 (3410) Prog. Mgmt-D&D	0.3	0.3	0.2	0.0	0.1	1.1	1.1	0.0	1.1		
Total WHC Program Management	10.2	9.6	8.3	(0.6)	1.3	50.8	50.8	0.0	50.8		
2.3 RL & Other Prog. Mgmt											
2.3.1 (3400) RL	1.7	1.7	1.3	0.0	0.4	14.4	14.4	0.0	14.4		
2.3.1 (3400) USACE	1.2	1.2	1.2	0.0	0.0	5.0	5.0	0.0	5.0		
2.3.1 (3400) PNL	0.3	0.7	0.7	0.4	0.0	1.3	1.3	0.0	1.3		
Total RL & Others Prog. Mgmt.	3.2	3.6	3.2	0.4	0.4	20.7	20.7	0.0	20.7		
2.3 TOTAL PROG. MGMT	13.4	13.2	11.5	(0.2)	1.7	71.5	71.5	0.0	71.5		

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.

FYSF is defined as the estimated total that will be spent from October through September.



**SITE MANAGEMENT  
SYSTEM**

**WESTINGHOUSE HANFORD COMPANY  
2.0 ENVIRONMENTAL RESTORATION PROGRAM**

**DECEMBER 1993**

**EXPENSE COST PERFORMANCE**

(\$ In Millions)

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC	EAC	VARI- ANCE	FYSF	PROJECTED CARRY- OVER WORK- SCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
2.1 WHC Remedial Actions											
2.5 Disposal Facility											
2.5.1 (3700) WHC-Disposal Fac	3.2	3.2	2.2	0.0	1.0	8.1	8.1	0.0	8.1		
2.5.1 (3700) USACE-Disp Fac	0.7	0.7	0.6	0.0	0.1	3.8	3.8	0.0	3.8		
2.5 TOTAL DISPOSAL FAC	3.9	3.9	2.8	0.0	1.1	11.9	11.9	0.0	11.9		
2.0 TOTAL WHC ER	36.7	32.9	31.5	(3.8)	1.4	183.0	183.0	0.0	183.0		
2.0 TOTAL HANFORD ER	41.3	37.7	35.8	(3.6)	1.9	217.1	217.1	0.0	217.1		

EAC is defined as the estimated total cost to complete the workscope as defined by the FYWP and approved Class I changes.  
FYSF is defined as the estimated total that will be spent from October through September.



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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.1.1 (3010)	<p><b>RADIATION AREA REMEDIAL ACTIONS (RARAs)/ UNDERGROUND STORAGE TANKS (USTs)</b></p> <p><u>(Description and Cause:)</u></p> <p>The variance is due to interim stabilization, minor radiation contaminated surface area and tumbleweed cleanup are behind schedule because of staff shortages and personnel supporting higher priority work</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Limited overtime is being utilized for schedule recovery</p> <p>There is no ER Programmatic impact</p>
2.1.2 (3020)	<p><b>RCRA CLOSURE</b></p> <p><u>(Description and Cause:)</u></p> <p>The variance is due to: (1) work on the 216-U-12 Crib Closure Plan was not initiated as planned because of limited manpower; (2) the Hexone Storage and Treatment Facility closure plan document review/revision is on hold until Ecology assigns a monitor to the project; and (3) the 183-H Solar Basins housekeeping activities have not been initiated because regulatory requirements have not been determined and concurrence not received from the regulators</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>(1) Activities on the 216-U-12 Crib Closure Plan have been initiated and no ER Programmatic impact is anticipated; (2) the Hexone Storage and Treatment Facility closure plan activities will remain on hold until a Ecology monitor is assigned; and (3) the 183-H Solar Basins housekeeping activities will begin after regulatory requirements are determined and concurrence received from the regulators which is expected at the December unit managers meeting</p>



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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.1.8 (3120)	<p>100-HR OPERABLE UNITS</p> <p><u>(Description and Cause:)</u></p> <p>Schedule variance is due to cancellation of proposed PNL contract for biodenitrification (100-HR-3 Treatability). Also, workscope related to nitrate issue is being redefined resulting in a two month delay because of the test plan revision</p> <p>Receipt of 100 Area Characterization borehole velocity measurement equipment is three months behind schedule due to delay in procurement at end of FY 1993</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>The 100-HR-3 remediation of chromium in groundwater treatability study will continue utilizing pilot ion exchange test equipment. Procurement of the ion exchange equipment has commenced. The funding for the biodenitrification scope will be transferred to the 200-UP subproject</p> <p>The 100 Area Characterization borehole velocity schedule will be adjusted and the funding distribution will be revised to match the anticipated shipping date of the measurement equipment</p>
2.1.9 (3125)	<p>100-NR OPERABLE UNITS</p> <p><u>(Description and Cause:)</u></p> <p>N Springs ERA budget not distributed correctly due to delays in issuance of the EE/CA for public review.</p> <p>Issues concerning the preferred alternatives for N Springs ERA causes a schedule variance</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Cost account will be revised to reflect current schedule of work</p> <p>Issues have been resolved. EE/CA will be issued to the regulators for public review by the end of January</p>



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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.1.16 (3230)	<p><b>200-UP OPERABLE UNITS</b></p> <p><u>(Description and Cause:)</u></p> <p>Delay in procurement and fabrication of the 200-UP-1 treatability equipment due to lack of personnel to complete the design drawings</p> <p>Delay in completion of the 200-UP-1 OU LFI work plan due to ongoing discussions of text changes with the regulators</p> <p>One month delay in initiation of drilling activities for 200-UP-1 characterization due to late start on the letter of intent (LOI) to KEH</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Subcontractor personnel were employed in December to complete the design drawings. Equipment will be ordered in January and fabrication of the treatment system should be complete by the February 21, 1994 required date</p> <p>Regulator comment resolution is complete. The final work plan will be printed in January</p> <p>LOI is in preparation. No impact to overall schedule is anticipated</p>
2.1.17 (3235)	<p><b>200-ZP OPERABLE UNITS</b></p> <p><u>(Description and Cause:)</u></p> <p>Offsite disposal of 200-ZP-2 Granular Activated Carbons (GACs) delayed due to environmental compliance audit of the vendor</p> <p>The FY 1993 Well Field Plan due November 30 was delayed until January 15, 1994 due to additional efforts required to restart Z1A</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>GAC shipments will be initiated as soon as environmental compliance issues audit report and issues are resolved</p> <p>The Well Field Plan will be completed in January</p>



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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.1.22 (3300)	<p>300-FF OPERABLE UNITS</p> <p><u>(Description and Cause:)</u></p> <p>The schedule variance is due to delays in the soil washing tests in the 300-FF-1 OU Treatability area because the contractor will not take the soil washing system into the zone to perform the tests</p> <p>Comments on the 300-FF-5 OU Phase I RI report were received later than planned resulting in delays in finalization of the Phase I RI report</p> <p>Remediation of groundwater well 4-5 in the 300-FF-5 OU was delayed because turbine oil was found in the well that required analysis, evaluation, and regulatory involvement before well remediation could resume</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>A change request was approved to revise milestones and re-timephase the budget associated with the soil washing test per strategy agreed to by WHC and RL with the contractor. The test is scheduled for the Spring of 1994</p> <p>There are no impacts to the critical path schedule for the 300-FF-5 OU characterization activities as a result of the delay in the Phase I RI report</p> <p>Well remediation was completed in December and there was no impact as a result of the turbine oil</p>
2.2.2 (3510)	<p>100 AREA D&amp;D</p> <p><u>(Description and Cause:)</u></p> <p>The schedule variance is due to D&amp;D workscope activities required to support the 105-F Reactor Basin roof repair, The 271-U Plant breaker installation, the 190-B high bay explosive demolition, and the 190-D high bay surveys (characterization and sampling) took longer than anticipated</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Although there are four (4) D&amp;D projects slightly behind schedule, no impacts to the critical path schedule in support of the agreement in principle are identified at this time</p>



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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.2.5 (3600)	<p><b>N REACTOR</b></p> <p><u>(Description and Cause:)</u></p> <p>The schedule variance is due to a delay in offsite shipment of hazardous waste and onsite shipment of low-level waste because of lower than anticipated volumes generated</p> <p>Manpower shortages delayed initiation or core maintenance in the N Basin and other system deactivation work scope</p> <p>Delays in placing contracts for several deactivation plans because of difficulties in contract negotiations</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>An increase in waste volumes is anticipated in the second quarter because of increased basin cleanup activities</p> <p>Additional D&amp;D craft will become available in January to assist in schedule recovery expected by the end of the second quarter FY 1994</p> <p>Procurement is working with potential contractors to resolve contract issues. Contracts are expected to be awarded by the end of February 1994</p>
2.3.1 (3400)	<p><b>PROGRAM MANAGEMENT, LABORATORY/FACILITY, SYSTEMS, AND EQUIPMENT UPGRADES</b></p> <p><u>(Description and Cause:)</u></p> <p>Yakima Borehole activities detained due to the delay in delivery of necessary equipment</p> <p>Negotiations on technical issues regarding preparation of Hanford Specific Standards for an X-ray florescence unit caused a delay in award of contract</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Yakima Borehole Drill equipment has been delivered. Recovery of schedule variance expected by the end of the second quarter</p> <p>Contract award expected in the second quarter</p>

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## EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(3.6M)	
2.3.1 (3400) (Continued)	<p>Newly-developed schedules for the 325 Laboratory upgrades have not been incorporated</p> <p>The variance is due to a delay in the ERM Transition because of protests by ERM contract bidders</p>	<p>The new milestones will be incorporated in January via a class II change request, and the budget re-timephased</p> <p>ERM Transition will be rebaselined upon resolution of the protests</p>
2.3.1 (3400)	<p>PROGRAM MANAGEMENT - PNL</p> <p><u>(Description and Cause:)</u></p> <p>Protective Barriers funds authorization problem. Program activities have no FY 1994 funding and no current BCWS in place, but are proceeding on schedule based on the assumption authorization problems will be resolved in January</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>An updated BCWS will be developed upon authorization of funds</p>



## EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$1.9M	
2.1.1 (3010)	<p>RADIATION AREA REMEDIAL ACTIONS (RARAs)/ UNDERGROUND STORAGE TANKs (USTs)</p> <p><u>(Description and Cause:)</u></p> <p>The variance is due to: (1) UST disposal costs deferred from FY 1993 were costed in FY 1994 (carryover budget has not yet been received); and (2) procurement of a farm tractor ordered in the fourth quarter of FY 1993 was completed and costed in FY 1994 (carryover budget has not yet been received)</p>	<p><u>Impacts and Corrective Actions:)</u></p> <p>(1) Carryover budget for the UST disposal costs; and (2) the farm tractor has been requested. Once carryover funding becomes available, the cost variance will be eliminated</p> <p>There is no anticipated ER Programmatic impact</p>
2.1.2 (3020)	<p>RCRA CLOSURES</p> <p><u>(Description and Cause:)</u></p> <p>The variance is due to B-Pond Bypass construction budget committed in FY 1993 were costed in FY 1994</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Carryover funding is being requested for the B-Pond Bypass costs</p> <p>No ER Programmatic impact is anticipated as a result of these variances</p>
2.1.8 (3120)	<p>100-HR OPERABLE UNITS</p> <p><u>(Description and Cause:)</u></p> <p>The 100-HR-3 OU cost variance is due to charges for 100-HR-3 OU LFI/QRA report preparation work completed in FY 1993 being accrued by vendor in FY 1994 and passed through the WHC accounting system in December, FY 1994</p>	<p><u>(Impacts and Correction Actions:)</u></p> <p>No action required at this time. The cost account will be monitored and supplemented at mid-year if required</p>



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## EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$1.9M	
2.2.2 (3510)	<p>100 AREA D&amp;D</p> <p><u>(Description and Cause:)</u></p> <p>The variance is due to delivery and invoice of major FY 1993-funded equipment in November, before having final carryover authorization</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Equipment costs will continue to show a variance until FY 1993 carryover funding is authorized in FY 1994 by RL. Once authorization is received, the cost variance will be eliminated. No further corrective action is required at this time. FY 1993 Carryover change request will be submitted in January and funding is expected in February</p>
2.2.5 (3600)	<p>N REACTOR</p> <p><u>(Description and Cause:)</u></p> <p>Budget for the Security Transition Program Office (STPO) assessment was planned for October but costs have not been received</p> <p>Manpower shortages for business management and regulatory support have resulted in underruns</p> <p>Routine sample analysis charges have not been billed by PNL</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>A change request is being prepared to correct the allocation of the STPO funds into a separate assessment cost account</p> <p>The hiring process is continuing as the hiring freeze has been lifted. True underruns will be redistributed through change control</p> <p>PNL costs are expected to be received in January</p>



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## EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$1.9M	
2.3.1 (3400)	<p>PROGRAM MANAGEMENT, LABORATORY/FACILITY, SYSTEMS, AND EQUIPMENT UPGRADES</p> <p><u>(Description and Cause:)</u></p> <p>Billing for the Mobile Decontamination Center has been delayed due to minor modifications required for buyer acceptance</p> <p>The variance is due to: (1) SEMP subcontractor billing is lagging approximately one month behind; (2) Records and Document Control occupancy costs have not been received due to an error in billing and IRM charges have been lower than expected; (3) costs have not been received on Barrier Development because a work order will not be issued to PNL until the Statement of Work (SOW) review has been completed. PNL is performing barrier activities and charging to an anticipatory account; and (4) due to late budget approval, Hanford Mission Plan has had slow initiation of split charging for labor</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Buyer acceptance and approval for payment is expected in January</p> <p>Favorable cost variance: (1) SEMP subcontractor charges are being reviewed and the cost account adjusted to reflect the one month lag time; (2) occupancy costs are being corrected for Records and Document Control and IRM charges are being reviewed for accuracy; (3) the SOW to PNL for Barrier Development activities is being reviewed and approval is forthcoming; and (4) labor charges on the Hanford Mission Plan will adjust as split charging is initiated</p>
2.5.1 (3700)	<p>DISPOSAL FACILITY -- WHC</p> <p><u>(Description and Cause:)</u></p> <p>W-025 Facility construction cost variance due to the billing cycle of the contractor and the lag time in getting the financial records into the WHC financial system</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>The W-025 Facility construction project is continuing within budget. Billing lag is likely to continue but the magnitude of the variance should continue to decrease</p>



## EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$1.9M	
2.3.1 (3400)	<p>PROGRAM MANAGEMENT, LABORATORY/FACILITY, SYSTEMS, AND EQUIPMENT UPGRADES</p> <p><u>(Description and Cause:)</u></p> <p>Billing for the Mobile Decontamination Center has been delayed due to minor modifications required for buyer acceptance</p> <p>The variance is due to: (1) SEMP subcontractor billing is lagging approximately one month behind; (2) Records and Document Control occupancy costs have not been received due to an error in billing and IRM charges have been lower than expected; (3) costs have not been received on Barrier Development because a work order will not be issued to PNL until the Statement of Work (SOW) review has been completed. PNL is performing barrier activities and charging to an anticipatory account; and (4) due to late budget approval, Hanford Mission Plan has had slow initiation of split charging for labor</p>	<p><u>(Impacts and Corrective Actions:)</u></p> <p>Buyer acceptance and approval for payment is expected in January</p> <p>Favorable cost variance: (1) SEMP subcontractor charges are being reviewed and the cost account adjusted to reflect the one month lag time; (2) occupancy costs are being corrected for Records and Document Control and IRM charges are being reviewed for accuracy; (3) the SOW to PNL for Barrier Development activities is being reviewed and approval is forthcoming; and (4) labor charges on the Hanford Mission Plan will adjust as split charging is initiated</p>
2.5.1 (3700)	<p>DISPOSAL FACILITY -- WHC</p> <p><u>(Description and Cause:)</u></p> <p>W-025 Facility construction cost variance due to the billing cycle of the contractor and the lag time in getting the financial records into the WHC financial system</p>	<p><u>(Impacts and Corrective Action:)</u></p> <p>The W-025 Facility construction project is continuing within budget. Billing lag is likely to continue but the magnitude of the variance should continue to decrease</p>



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## EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE \$1.9M	
2.5.1 (3700) (Continued)	<p>Continued cost variance associated with drilling of the groundwater monitoring wells due to subcontractor billing lag to WHC accounting</p> <p>PNL has not processed the charges for the Cultural Resources Review and the Ecological Survey related to the W-296 Project. Also, the design review dollars have been issued but the reviewers have not been charging to their assigned task packages</p> <p>Charges for the design of the W-025A Trench less than anticipated because the design is virtually identical to the W-025 Trench</p>	<p>Subcontractor billings associated with drilling are expected to start entering the cost system in January and should continue on a regular basis</p> <p>PNL has committed to transmit costs to WHC in December. The design review personnel will be directed to charge to their assigned task packages</p> <p>Design costs for the W-025A Facility will continue to be less than anticipated. Available funds will be reprogrammed once the final design charges are accrued</p>

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<b>WBS NO.</b>	<b>DATE IDENT</b>	<b>ISSUE</b>	<b>IMPACT</b>	<b>STATUS</b>
2.0-2	12/93	BOA contracts for support to the ER Program that expire at the end of FY 1994 have not been re-bid pending award of the ERM C	Supplemental labor and expertise for engineering support activities will not be available	A RFP for a remediation BOA has been submitted to DOE for approval
2.0-3	12/93	In response to the Tri-Party Agreement, the N Area is being consolidated into a single project including CERCLA, RCRA, D&D, and Reactor Shutdown	The impact relative to increased scope and the associated funding is unknown at this time	Negotiations are underway with the regulators. A change request will be submitted to the regulators defining workscope and establishing milestones
2.0-4	12/93	Compliance with DOE Order 5480.13A, Aviation Safety, has delayed site flyover activities and increased costs	Completion of mapping for ERDF may be impacted	A waiver from this order has been requested
2.0-5	12/93	Contaminated soil was inadvertently disposed of in the Richland Landfill on November 18, 1993. The disposal was discovered on December 21, 1993 and a occurrence notification completed	All work is stopped at the North Slope pending corrective actions determined by a team of USACE and WHC personnel. Liability for cleanup at the Richland Landfill is unknown at this time	The USACE and WHC team is conducting an investigation on the occurrence. The State of Washington is conducting a similar investigation to determine if any legal ramifications of the action are necessary



## 100 AREA ACCOMPLISHMENTS

### OCTOBER ACCOMPLISHMENTS

#### 100-BC OPERABLE UNITS

- Completed 100-BC-1 OU Soil Washing Treatability Test activities
- Completed 100-BC-5 OU fifth round groundwater sampling
- Completed removal of the concrete pad from the 6718 maintenance building and excavation of the drain pipe for the Riverland ERA

#### 100-DR Operable Units

- Submitted 100-DR-2 OU WP to RL and the regulators, completing Tri-Party Agreement Milestone M-13-05

#### 100-HR Operable Units

- Completed 100-HR-2 OU surface geophysics activities
- Submitted 100-HR-3 OU LFI/QRA reports to the regulators, completing Tri-Party Agreement Milestone M-15-06A
- Submitted Complete 100-HR-3 OU Treatability Study Activities, Tri-Party Agreement Interim Milestone M-15-06B, to the regulators, one month ahead of schedule
- Submitted the 100 Area Groundwater Biotenitrification Bench-Scale Treatability Study document for 100-HR-3 OU to RL for review

#### 100-KR Operable Units

- Submitted the 100-KR-4 OU QRA report to RL for review

### NOVEMBER ACCOMPLISHMENTS

#### 100-FR Operable Units

- Initiated public review of the EE/CA for the North Slope ERA

#### 100-HR Operable Units

- Completed 100-HR-1 OU Excavation Treatability Test Activities, Tri-Party Agreement Interim Milestone M-15-05B
- Submitted the revised 100-HR-2 OU WP to the regulators for approval



### 100-KR Operable Units

- Submitted the 100-KR-4 OU fourth round Data Validation Report to RL and the regulators
- Submitted 100-KR-4 OU LFI/QRA reports to RL for review

## DECEMBER ACCOMPLISHMENTS

### 100-BC Operable Units

- Submitted the 100-BC-1 OU Soil Washing Laboratory test report to RL for review
- Dispositioned/incorporated regulator comments on the 100-BC-2 OU WP and submitted it to RL and the regulators for approval
- Submitted the 116-C-2A Plutonium Crib samples validation report to RL

### 100-DR Operable Units

- Dispositioned/incorporated regulator comments on the 100-DR-1 OU LFI/QRA reports and submitted it to RL and the regulators for review and approval

### 100-HR Operable Units

- Completed soil gas surveys at the 128-H-1 Burn Pit in the 100-HR-2 OU
- Dispositioned/incorporated RL comments on the Chemical Precipitation/Ion Exchange test results and submitted the report to RL for review

### 100-KR Operable Units

- Submitted the 100-KR-4 OU LFI/QRA draft reports to RL for transmittal to the regulators
- RL and the regulators approved a reduced analyte list for the 100-KR-4 OU fifth round groundwater sampling analysis

## 200 AREA ACCOMPLISHMENTS

### OCTOBER ACCOMPLISHMENTS

#### 200-BP Operable Units

- Completed excavation of the raw water delivery line, the infiltration basin, and surface contamination stabilization for the Hanford Prototype Barrier at the 200-BP-1 OU

#### 200-UP Operable Units

- Completed borehole drilling at the 216-U-12 Crib for the 200-UP-2 OU

#### 200-ZP Operable Units

- Received comments from the regulators on the 200-ZP-1 IRM Proposed Plan and initiated disposition of the comments
- Received regulator comments on the 200-ZP-1 OU WP

### NOVEMBER ACCOMPLISHMENTS

#### 200-BP Operable Units

- Completed installation of the raw water pipeline at the 200-BP-1 OU for the prototype barrier
- Completed the re-bid cycle for the contract to construct the prototype barrier

#### 200-ZP Operable Units

- Resumed vapor extraction at the 216-Z-1A VES site

### DECEMBER ACCOMPLISHMENTS

#### 200-BP Operable Units

- Completed construction of the retention basin and grouting of the distribution line at the 216-B-57 Crib for the prototype barrier in the 200-BP-1 OU
- Awarded the contract for construction of the prototype barrier and initiated site preparation activities
- Issued the first draft of the 200-BP-5 Treatability Test Plan to RL and HQ for review

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#### 200-UP Operable Units

- Submitted a DOW for well drilling to support characterization activities at 200-UP-1 OU to the regulators for review
- Completed groundwater well usability testing at the 200-UP-1 OU, resulting in selection of wells for the pump and treatability test

#### 200-ZP Operable Units

- Dispositioned/incorporated regulator's comments on the 200-ZP-1 OU IRM Proposed Plan, Revision 0, and submitted the plan to the regulators
- Extracted 511 pounds of carbon tetrachloride since restart of the VES at the 216-Z-1A site in the 200-ZP-2 OU. A total of 10,015 pounds have been extracted

216-Z-1A  
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## 300 AREA ACCOMPLISHMENTS

### OCTOBER ACCOMPLISHMENTS

#### 300-FF Operable Units

- Initiated waste water treatment activities at the soil washing site at the 300-FF-1 OU
- Submitted the 300-FF-1 OU RI Phase II Soil Washing Treatability report to RL for review

### NOVEMBER ACCOMPLISHMENTS

#### 300-FF Operable Units

- Dispositioned/incorporated regulator comments on the 300-FF-5 OU RI Phase I report and the FS Phase I and II reports

### DECEMBER ACCOMPLISHMENTS

#### 300-FF Operable Units

- Submitted the 300-FF-1 OU RI Phase II report, Physical Separation of Soils Treatability Study, to the regulators, completing Tri-Party Agreement Milestone M-15-03B
- Issued the final 300-FF-5 OU RI Phase I and FS Phase I and II reports to the regulators