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Tri-Party Agreement Milestone Summary

May 1993



Prepared for the U.S. Department of Energy



Westinghouse
Hanford Company Richland, Washington

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

Approved for Public Release

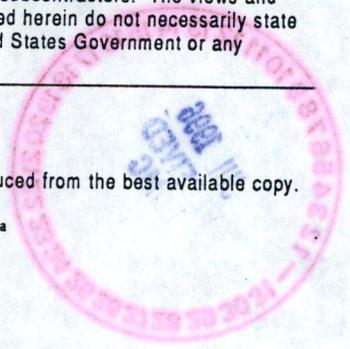
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PREFACE

The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 252 planned interim milestones due by April 30, 1993, 248 were completed.

The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement Milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

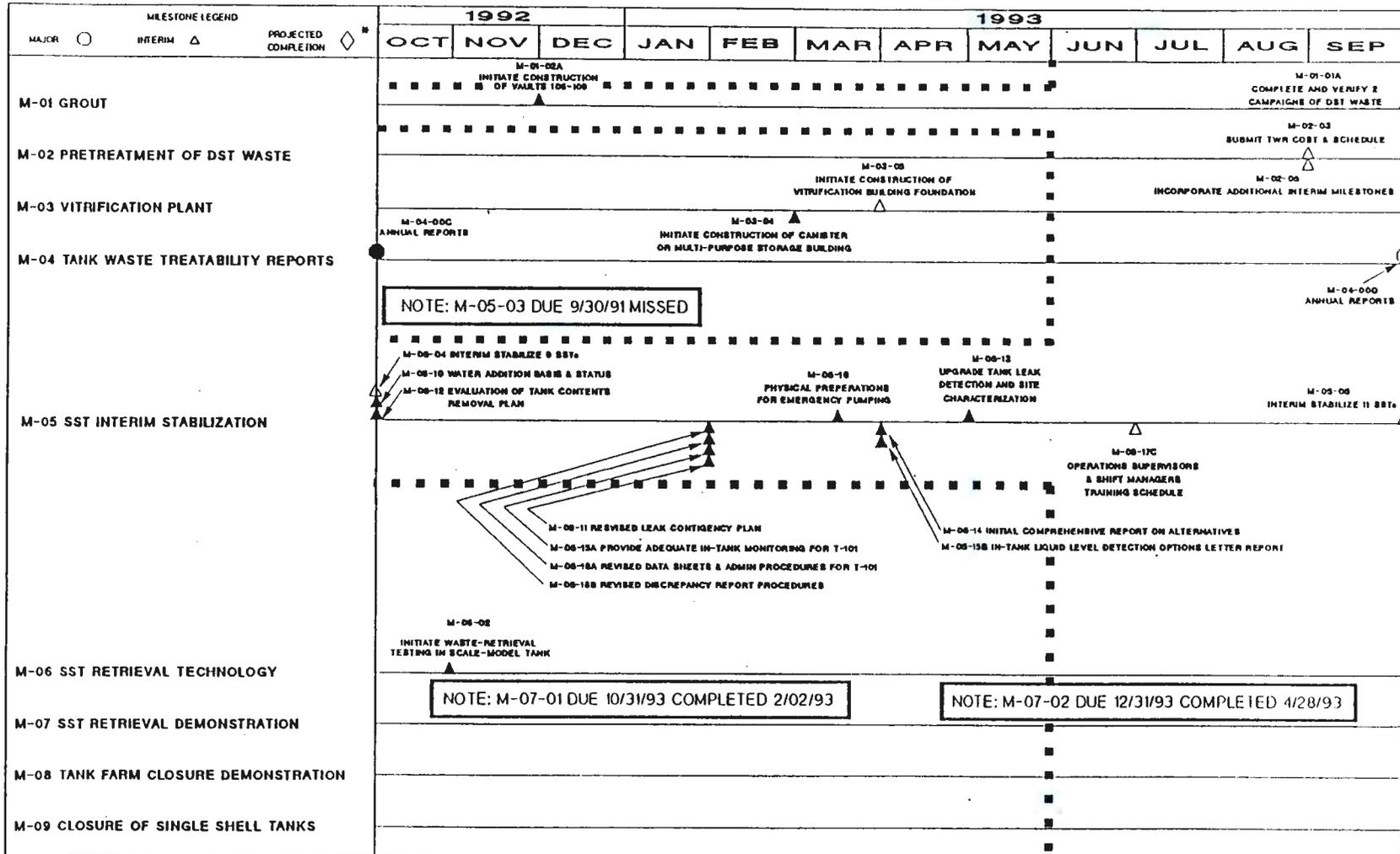
This significant event occurred since the close of the reporting period for the Tri-Party Agreement Milestone Summary.

M-14-00 -- Provide Low-Level Mixed Waste Laboratory Services -- July 14, 1993

At the end of May, all work was stopped on the fabrication and shipment of the remaining modules for the Waste Sampling and Characterization Facility (WSCF) because the subcontractor, U.S. Modular, defaulted. Subsequently, the Texas

Capital Bank obtained a writ of attachment to stop work. Kaiser Engineers Hanford (KEH) immediately took action to resolve the situation to minimize any schedule impacts. In response, the bank withdrew their writ, thus allowing work to proceed. KEH assumed responsibility for management of the work remaining in Texas to ship all remaining modules. Three modules were shipped by mid-June, and all remaining modules should be shipped by late June. Impacts, if any, to construction completion (M-14-02) and facility startup (M-14-03) are still being assessed and will not be fully understood until the remaining modules are received and checked.

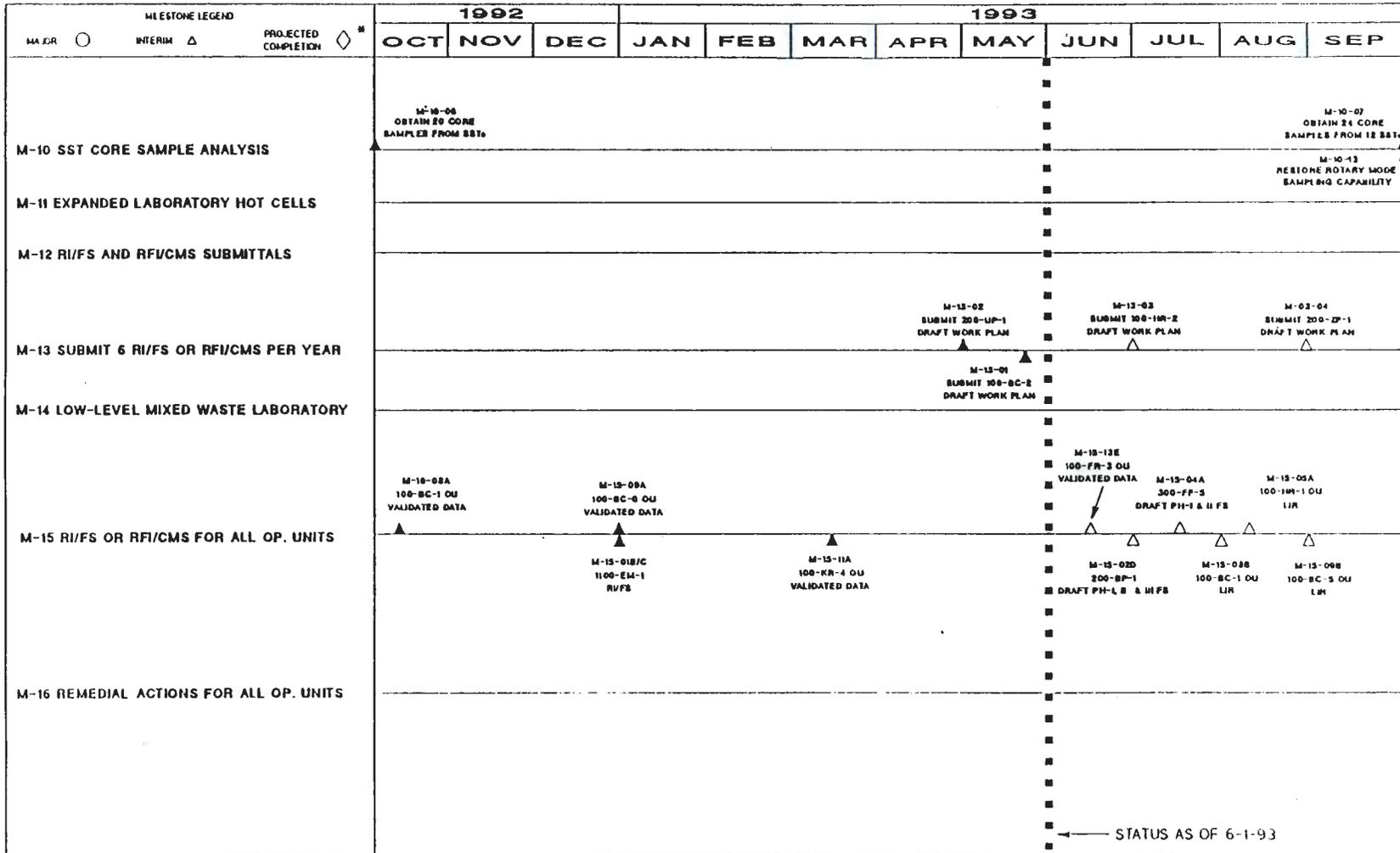
TPA MILESTONES



* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

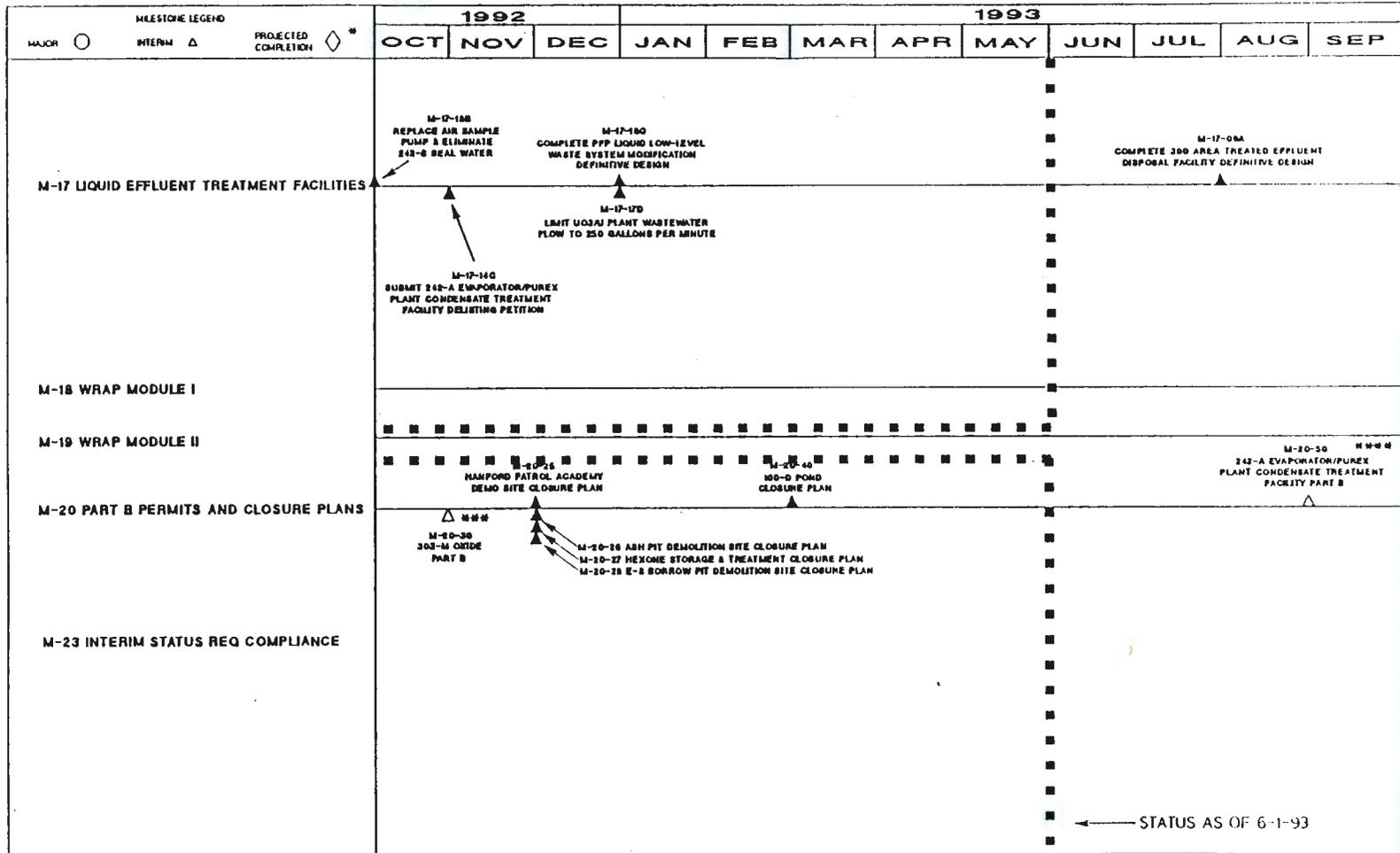


* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

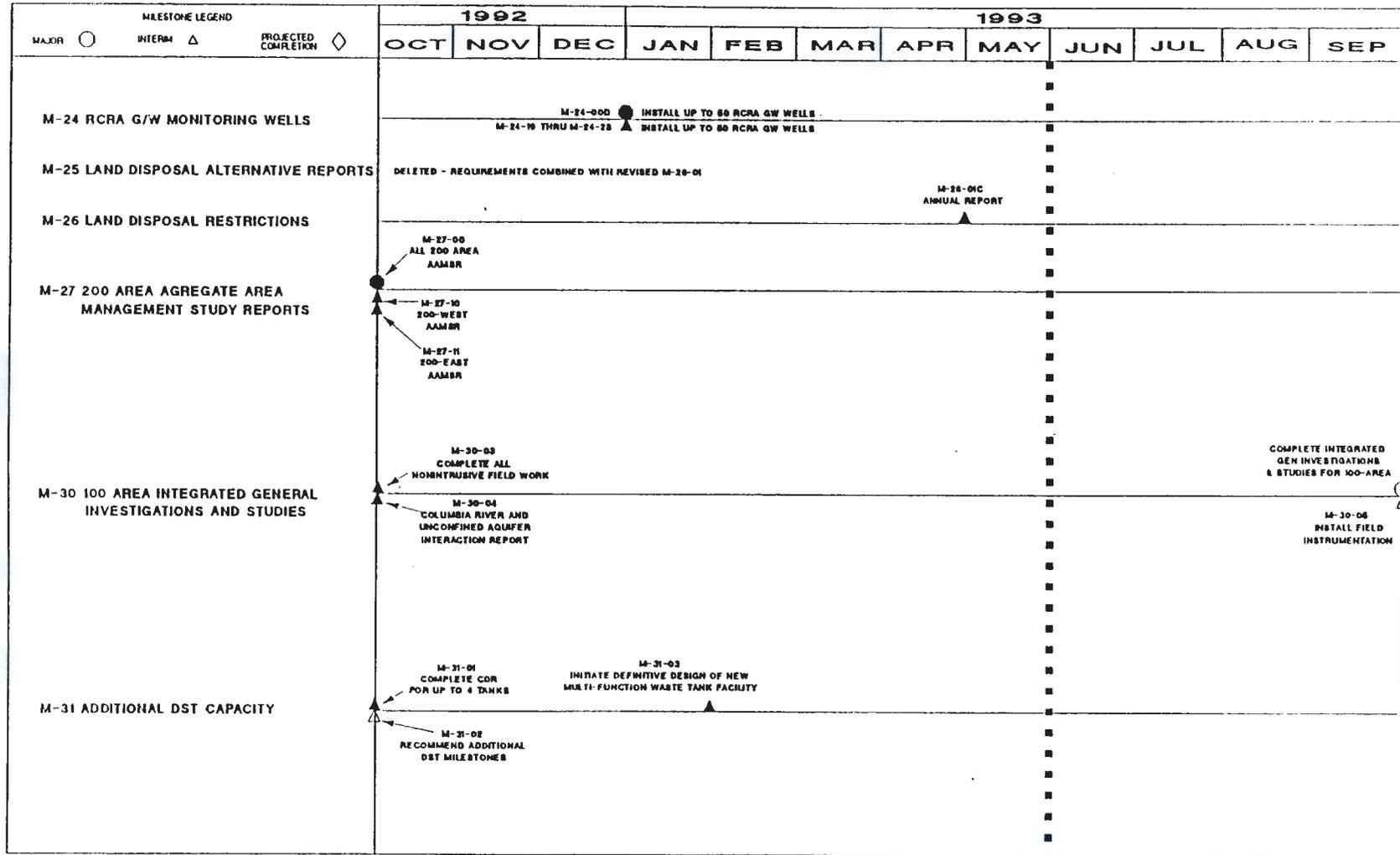


- * PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE
- ** WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99
- *** REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.
- **** FACILITY CURRENTLY TITLED "200 AREA EFFLUENT TREATMENT FACILITY".

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TPA MILESTONES



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← STATUS AS OF 6-1-93

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TRI-PARTY AGREEMENT
BUDGET BASELINE SUMMARY
MAY 1993

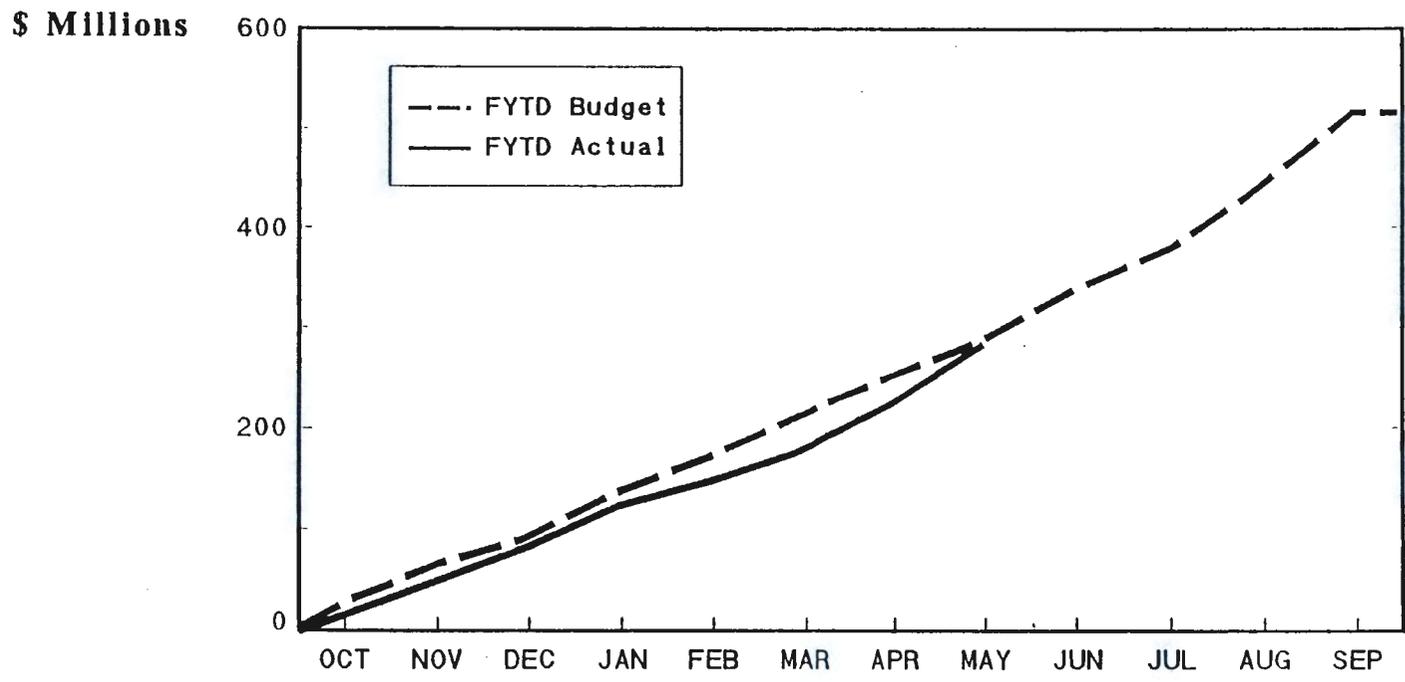
(\$ in Millions)

<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	14.6	11.5	2.8	25.2
M-01	24.2	22.4	1.8	37.2
M-02 *	9.8	9.6	0.2	33.9
M-03 *	74.4	68.3	6.1	134.5
M-04	0.1	0.0	0.1	0.1
M-05	3.4	2.4	1.0	7.0
M-06 *	2.1	1.7	0.4	2.9
M-07	2.8	2.8	0.0	5.0
M-08	1.3	1.2	0.1	2.4
M-09	4.4	4.2	0.2	5.4
M-10	16.0	17.4	(1.4)	23.5
M-11	8.3	7.6	0.7	14.1
M-12	0.4	0.3	0.1	0.6
M-13	0.7	0.6	0.1	1.6
M-14	5.8	7.7	(1.9)	9.4
M-15 *	52.2	48.1	4.1	92.4
M-16	8.0	7.1	0.9	12.4
M-17 *	34.7	30.1	4.6	66.1
M-18	4.6	6.0	(1.4)	6.3
M-19	3.4	3.3	0.1	5.9
M-20 *	6.6	4.4	2.2	12.8
M-24	1.7	2.2	(0.5)	3.7
M-26	0.1	0.1	0.0	0.1
M-30	1.5	1.3	0.2	3.6
M-31	6.6	6.0	0.6	12.3
	<u>287.7</u>	<u>266.6</u>	<u>21.1</u>	<u>518.4</u>

* These milestones include costs from other contractors.
All other milestones are WHC only. \$0.0=less than \$100K.

TRI-PARTY AGREEMENT ALL MILESTONES

FY 1993



FYTD Budget	27.1	65.2	100.7	138.0	174.2	216.5	240.3	287.7	332.4	378.9	442.1	518.4
FYTD Actual	16.1	53.8	83.1	120.2	149.6	185.5	221.9	266.6				
Spending Var	11.0	11.4	17.6	17.8	24.6	31.0	18.5	21.1				

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LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FY	fiscal year
FYTD	fiscal year-to-date
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
LFI	Limited Field Investigation
NEPA	National Environmental Policy Act
OU	operable unit
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

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MAJOR MILESTONE: M-01-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: G. H. Sanders

MANAGER: R. J. Murkowski

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Change Request M-01-92-01A.

ACCOMPLISHMENTS

- Filled vault 103 for hydrostatic test.
- Performed ultrasonic retest of vault 101 and DST 241-AN-106 pilot plant gradient mold.

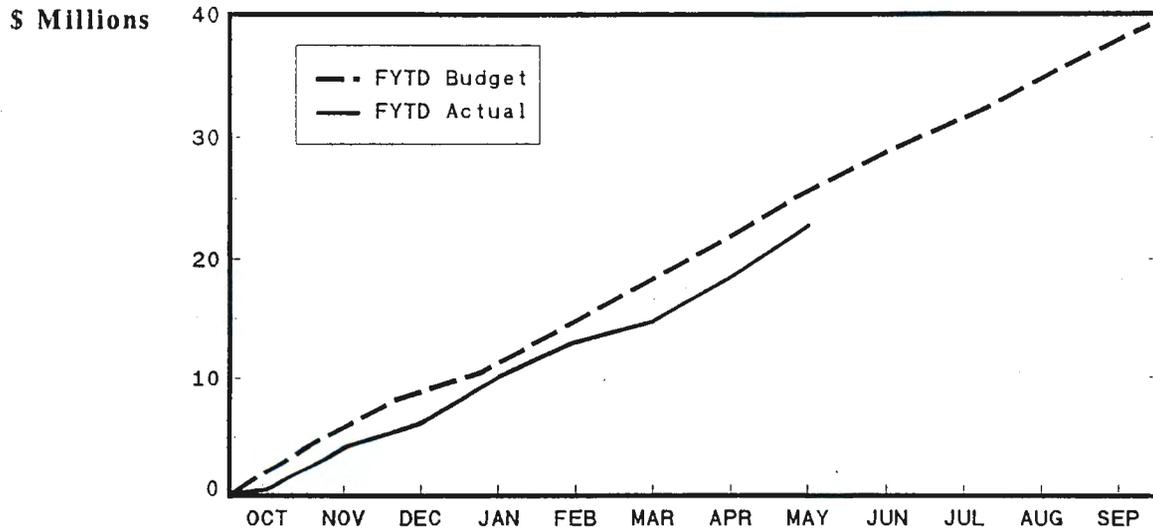
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Place cold cap material in vault 101.
- Continue characterization activities for DST 241-AP-102 in preparation of a data package to be sent to the Washington State Department of Ecology (Ecology).
- Complete Grout Treatment Facility capacity study. This study will analyze the logistics on the number of vaults to be filled each year.
- Develop vault 102 campaign plan, which will define the operating envelope.
- Submit four vault performance assessment to the U.S. Department of Energy, Richland Operations Office (RL) for review and forward to U.S. Department of Energy, Headquarters (HQ) peer review panel.

- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.
- Develop building emergency plan and hold needed training.
- Complete operational test procedures on vault ventilation system and portable instrument house.
- Continue facility evaluations.
- Continue developing and training personnel on administrative, operating, maintenance, and calibration procedures.
- Continue to resolve and close out comments from Brookhaven National Laboratory on the final safety analysis report. Continue confirmatory testing and validation of gas generation in the vaults.
- Complete hydrotest of vault 103.

MILESTONE STATUS/PROBLEMS/ISSUES

- HQ has interpreted a letter from the U.S. Nuclear Regulatory Commission as direction to pretreat waste before grouting. This would have a significant impact on the Tri-Party Agreement. RL has requested written clarification from HQ.
- Reworking the comments and recommendations from the Performance Assessment HQ Peer Review Panel has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility Tri-Party Agreement milestones (reference change request M-01-92-01A).
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet milestone M-01-01A is highly unlikely. Late mobilization in fiscal year (FY) 1993, facility readiness activities, and lack of appropriate staff already are causing delays (reference change request M-01-92-01A).



FYTD Budget	2.7	6.6	9.9	11.9	15.2	18.5	20.3	24.2	27.3	30.3	34.1	37.2
FYTD Actual	0.5	4.2	6.2	10.2	12.5	14.7	17.9	22.4				
Spending Var	2.2	2.4	3.7	1.7	2.7	4.1	2.4	1.8				

Variance Explanation: None required.

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**MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: MAY 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

ACCOMPLISHMENTS

- Completed first round of public comment meetings for TWRS rebaselining (M-02-03).
- Began negotiations with Ecology and U.S. Environmental Protection Agency (EPA) on TWRS rebaselining and revision, including M-02.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

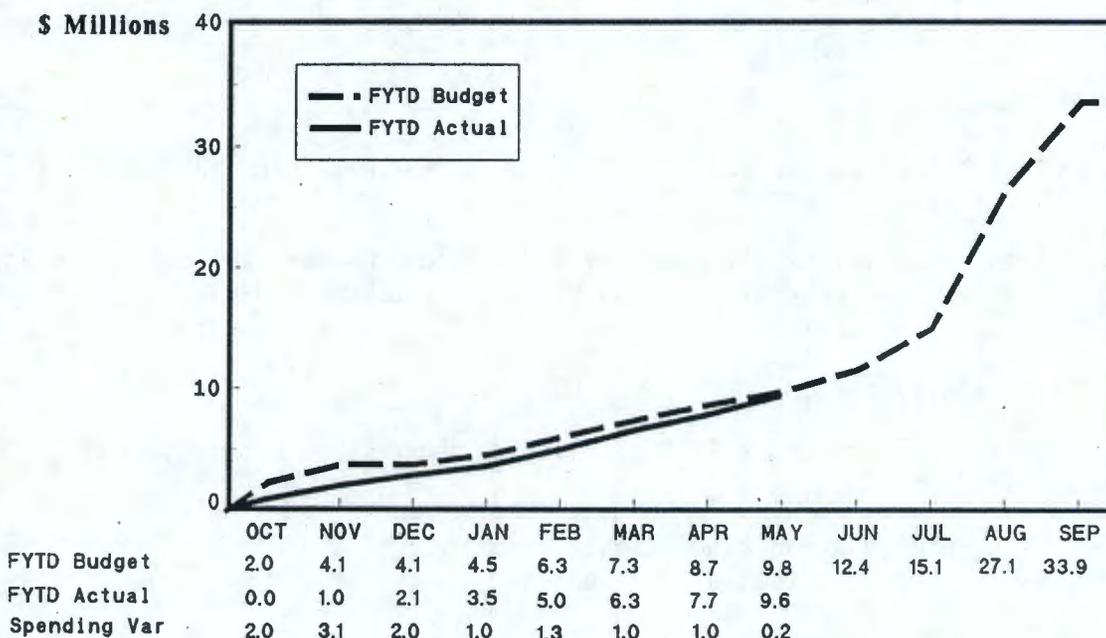
- Issue final drafts of TWRS baseline documents for external review (M-02-03):
 - Functions and requirements documents
 - Integrated technology plan
 - TWRS program plan
 - TWRS program management plan.
- Issue tank waste technical options report (supports M-02-03).
- Incorporate M-02-05 into Tri-Party Agreement negotiations on the new technical strategy. End negotiations by September 30. Seek public review of the negotiation results, probably through December.

MILESTONE STATUS/PROBLEMS/ISSUES

- Target milestone M-02-00-T07 ("Initiate Settling Tests for Neutralized Current Acid Waste In-Tank Solids Washing") can be delayed without

affecting pretreatment work. Negotiations with Ecology have begun to allow a 1-year delay of this milestone. This delay would allow better management of those resources.

- The TWRS rebaselining study was completed and released in March. A 6-month public participation period has begun to allow public review and comment before agreements are reached with the regulators. The process will include public meetings, workshops, and the formation of a task force of representatives from potentially affected groups. The task force will review the study and provide comments to the three parties.
- Milestones M-02-03 and M-02-05 were established before the Evaluation of Hanford Tank Waste Remediation Alternatives Agreement in Principle was reached. The scope of these two milestones is an integral part of the evaluation and negotiation authorized by the agreement. At the milestone review meeting, May 20, a proposal was made to delay these milestones to coincide with the conclusion of negotiations.



Variance Explanation: None required.

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**MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: MAY 1993**

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) Operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	9/93

ACCOMPLISHMENTS

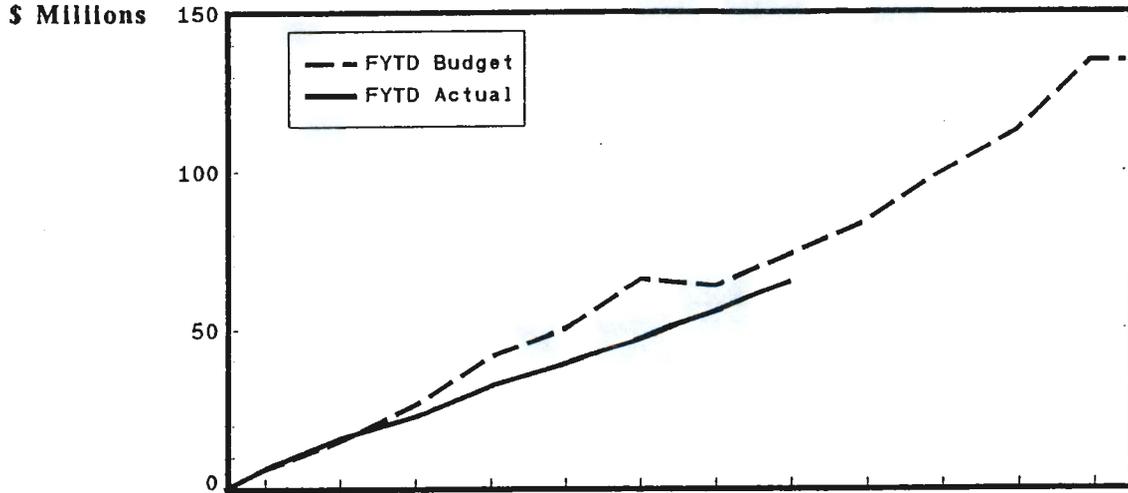
- Initiated installation of construction power distribution system.
- Initiated construction of concrete batch plant.
- Completed site preparation construction activities.
- Approved modifications to Operations Annex Building for interim use as TWRS office building.
- Received HQ approval of the Phase IIA prenegotiation analysis to support the June 1993 Phase IIA negotiations with the general construction contractor.
- Developed task team assignments and initiated the second phase of the increased HWVP throughput capacity study.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Solicit bids, award subcontract, and begin installation of mechanical site utilities.
- Complete Phase II of the HWVP total operating efficiency evaluation, verifying Phase I.
- Continue study to increase the throughput capacity of the HWVP.
- Initiate construction of Operation Annex Building (TWRS office building).
- Initiate construction of Canister Storage Building foundation.

MILESTONE STATUS/PROBLEMS/ISSUES

- Start of construction of the Vitrification Building foundation, milestone M-03-05, has been suspended for 6 months. The 6-month period will be used for public review of the proposed TWRS rebaselining and negotiating potential changes to the HWVP milestones in the Tri-Party Agreement.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	9.3	20.2	30.5	42.2	54.4	66.4	63.2	74.4	85.5	98.7	114.6	134.5
FYTD Actual	6.2	15.8	22.5	32.0	39.5	48.4	56.9	68.3				
Spending Var	3.1	4.4	8.0	10.2	14.9	18.0	6.3	6.1				

Variance Explanation: None required.

MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

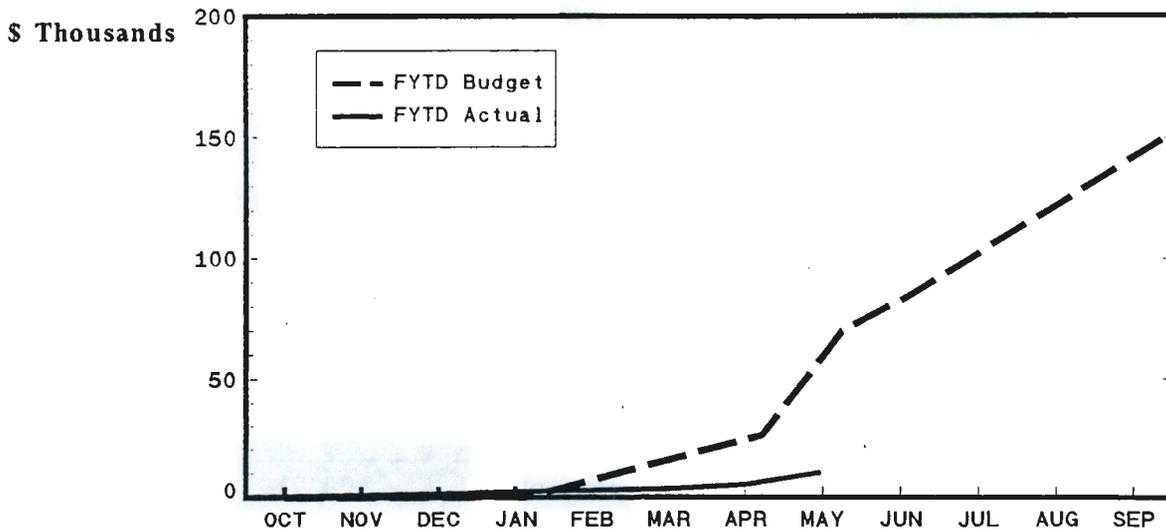
- The coordinator received 53% of the draft input sections for the report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare and issue annual report.

MILESTONE STATUS/PROBLEMS/ISSUES

- Nothing significant to report.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.0	0.0	0.0	0.0	8.9	17.7	26.6	69.2	87.2	107.7	128.1	148.6
FYTD Actual	0.0	0.5	0.5	0.5	0.7	0.7	2.8	10.6				
Spending Var	0.0	(0.5)	(0.5)	(0.5)	8.2	17.0	23.8	58.6				

Variance Explanation: The cost underrun results from the use of fewer resources than expected to prepare some draft sections of the report, the need for some organizations to complete their contributions, and contract costs for work performed that have not been costed. This chart is prepared in thousands of dollars to provide meaningful data. The Budget Baseline Summary table shows zero for fiscal year-to-date (FYTD) budget and FYTD actual because it is in millions of dollars.

MAJOR MILESTONE: M-05-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete single-shell tank (SST) interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-17B	Complete Nuclear Operator training.	12/93	12/93
M-05-17C	Provide schedule for completing Operations Supervisor and Shift Manager training.	6/93	6/93

ACCOMPLISHMENTS

- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone.

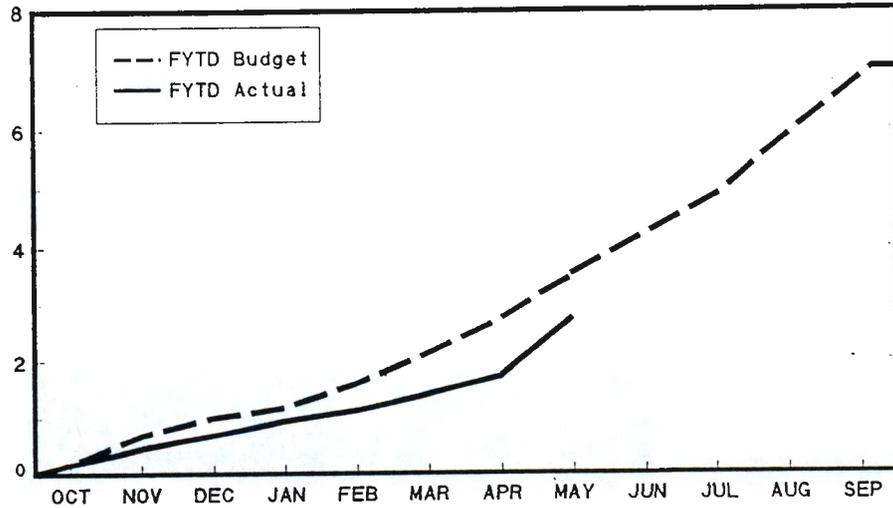
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete a rewrite of the SST 241-C-106 Emergency Response Plan to accommodate comments received from Ecology.
- Initiate emergency pumping of SST 241-BX-111 and pumping of SST 241-BX-110.
- Issue schedule for completing Operations Supervisor and Shift Manager training (M-05-17C).
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms. This report is currently in RL for review.
- Complete integrity assessment of waste transfer lines.
- Continue restoration of double-contained receiver tank 244-U.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology sent RL a letter that stated concerns with the Emergency Response Plan for SST 241-C-106 and requested an update to the plan.
- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- SST 241-SX-102 was declared an assumed leaker. Steps are under way to find the best method for reducing the drainable liquid to a level that will cease discharging waste to the soil.
- SST 241-BX-111 was declared an assumed re-leaker. Steps are under way to find the best method for reducing the drainable liquid to a level that will cease discharging waste to the soils. This tank was declared an assumed leaker in 1984.
- RL submitted a draft Tri-Party Agreement Change Control Form to the regulators that would add the start of pumping SST 241-BX-111 in August 1993 as a new interim milestone. Ecology has rejected this approach. RL is reviewing its options before deciding its next step.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. To protect worker safety, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200-Area tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a Tri-Party Agreement change request.
- A safety question was raised about the hazards of higher temperatures that could result in the SSTs when liquid is removed from them. Analyses and studies continue on this question.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, the negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.

\$ Millions



FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	2.6	3.4	4.1	4.8	5.7	7.0
FYTD Actual	0.1	0.4	0.6	0.9	1.1	1.4	1.8	2.4				
Spending Var	0.3	0.4	0.7	0.5	0.7	0.9	0.8	1.0				

Variance Explanation: The cost underrun is a result of ongoing SST 241-T-101 emergency corrective actions. These activities, which were not in the original FY 1993 baseline, have deferred resources from stabilization and isolation work scope to prepare SST 241-T-101 for emergency pumping. Additional resources (Kaiser Engineers Hanford) have been obtained to support SST stabilization and isolation FY 1993 work scope.

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MAJOR MILESTONE: M-06-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Initial discussions explained the recommended milestone program baseline.

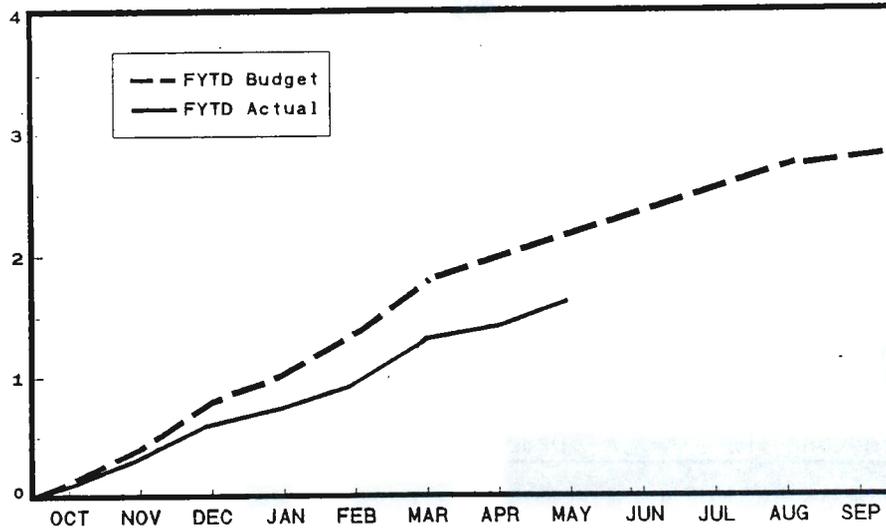
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit, review, and obtain regulator concurrence on the M-06 definition plan by September 1993.
- Complete tests of soft waste removal device with kaolin simulants to simulate dry sludge wastes.
- Complete testing of confined sluicing devices.
- Complete testing of water jets to dislodge and help move the waste.
- Experimentally optimize retrieval rates with computer modeling. Define the air lift conveyance system limits.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- This milestone is on schedule.

\$ Millions



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.1	0.4	0.8	1.0	1.4	1.6	1.9	2.1	2.3	2.5	2.7	2.9
FYTD Actual	0.1	0.3	0.6	0.7	1.0	1.3	1.4	1.7				
Spending Var	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4				

Variance Explanation: The cost underrun results from delays in subcontracts placement, delays in startup resulting from staffing shortage, and delays in anticipated procurements.

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MAJOR MILESTONE: M-07-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Initial discussions explained the recommended milestone program baseline.
- Began to prepare environmental and regulatory compliance documentation as required by Resource Conservation and Recovery Act (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act (NEPA)*.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

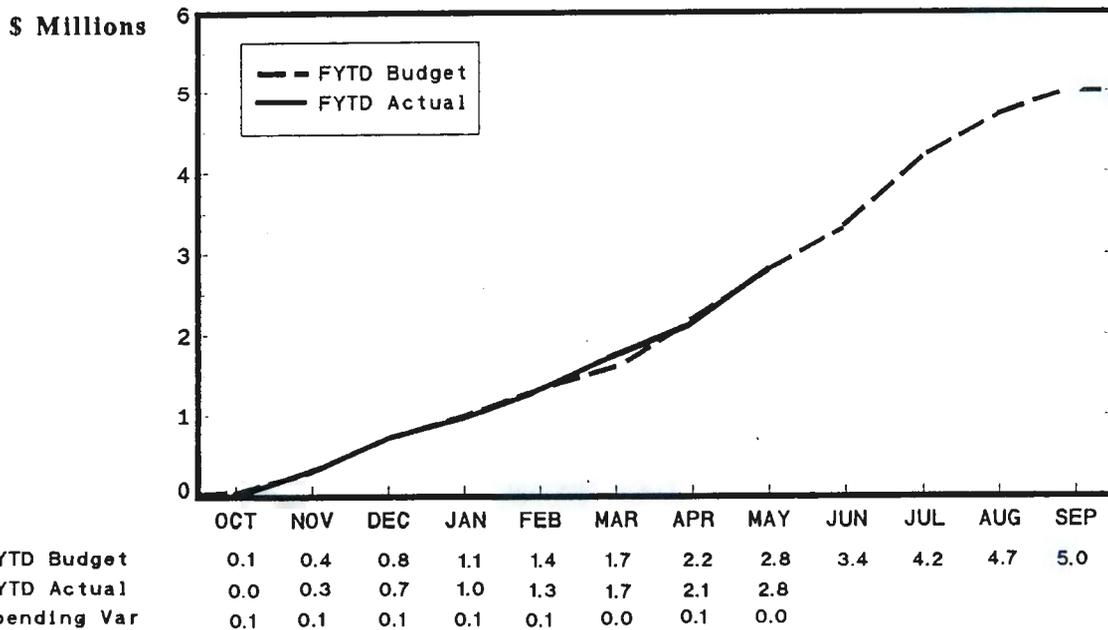
- Develop a detailed plan for M-07-00 achievement, integrated with milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Develop and present to the regulators a position paper on tank waste retrieval program regulatory compliance issues.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- Preliminary assessments of the impacts of performing NEPA analyses (environmental assessment or environmental impact statement) suggest they could substantially delay this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology.

Significant development work is required before other retrieval technologies can be used. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95 percent waste retrieval criteria for the M-07 demonstration.

- The preliminary studies on subsurface barriers indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, the negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.



Variance Explanation: None required.

WHC-MR-0403-7

MAJOR MILESTONE: M-08-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

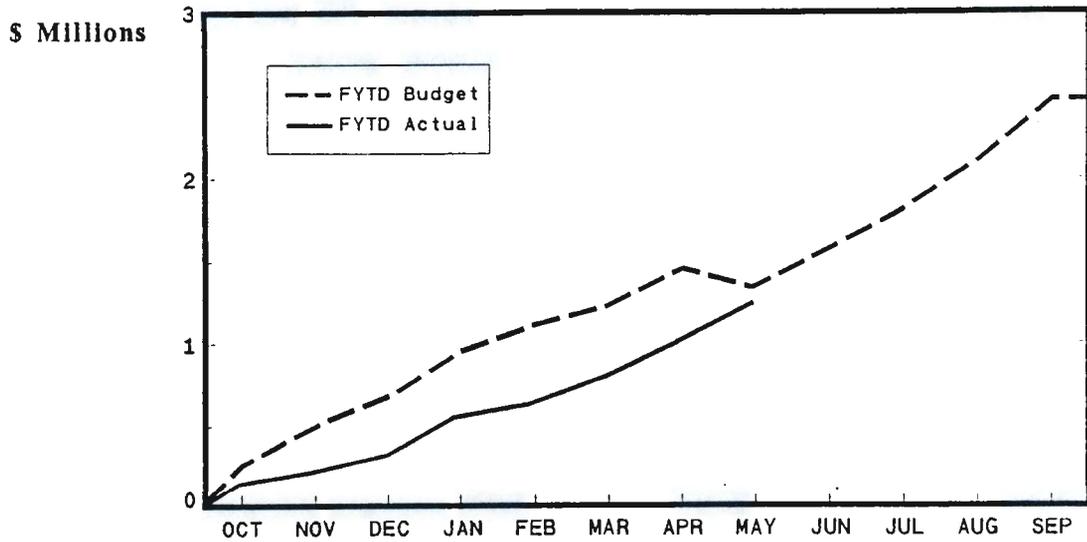
- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Initial discussions explained the recommended milestone program baseline.
- Began Phase II of the subsurface barrier development study.

PLANNED ACTIONS FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval program plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- This milestone is on schedule.
- The preliminary studies on subsurface barriers indicate this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone could cause delays.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



FYTD Budget	0.2	0.4	0.7	1.0	1.1	1.3	1.4	1.3	1.6	1.8	2.1	2.4
FYTD Actual	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2				
Spending Var	0.2	0.2	0.4	0.5	0.5	0.5	0.4	0.1				

Variance Explanation: None required.

MAJOR MILESTONE: M-09-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Initial discussions explained the recommended milestone program baseline.

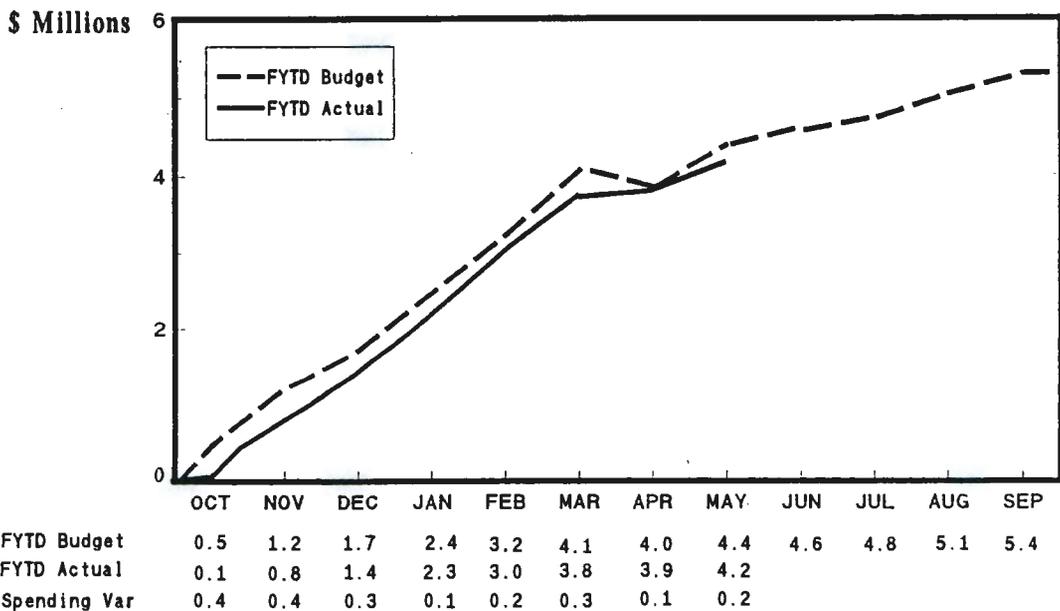
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Management responsibility for this milestone is divided between Waste Management and Environmental Restoration programs, and a meeting will be convened next month to discuss and develop an overall milestone management philosophy.
- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue to the *Federal Register* a notice of intent for the TWRS Environmental Impact Statement.
- Begin the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

MILESTONES STATUS/PROBLEMS/ISSUES

- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- This milestone is on schedule; however, it may be in jeopardy unless preclosure activities can be accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.

- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



Variance Explanation: None required.

WHC-MR-0403-7

MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary mode sampling capability at the Hanford Site.	9/93	9/93

ACCOMPLISHMENTS

- Began negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Initial discussions explained the recommended milestone program baseline.
- Continued discussions with the regulators on a new HQ direction that proposes the SST Characterization Program and related Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Changes to the baseline will need to be reflected in the Tri-Party Agreement major milestone M-10-00.
- Submitted a Notice of Construction for the rotary mode sampling exhauster system, to comply with Clean Air Act permit requirements.
- Removed two core samples from SST 241-T-105. See third bullet under "Milestone Status/Problems/Issues."

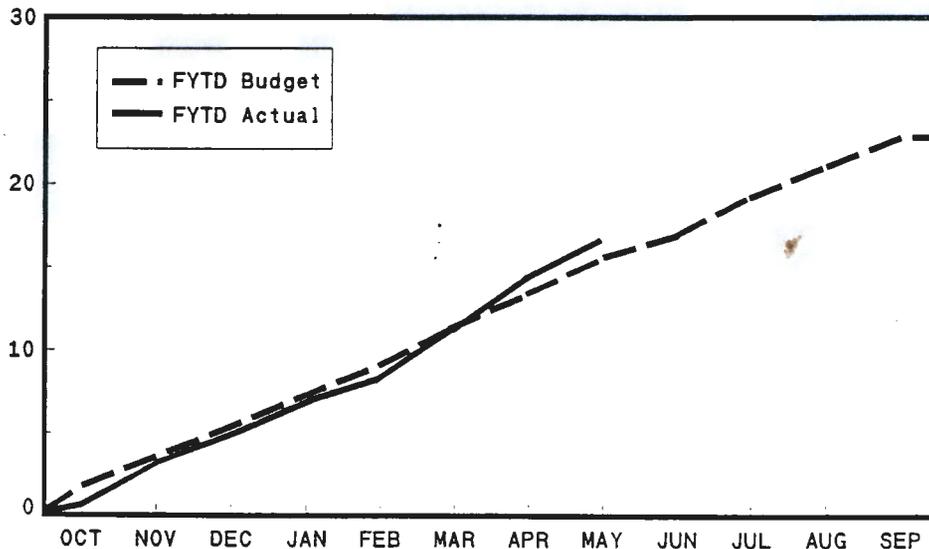
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Obtain core samples from SSTs 241-C-106, -C-108, -C-111, and -T-101. All of these SSTs are safety issue SSTs.
- Continue rotary mode sampling testing and implementation.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology's Unit Manager canceled the SST Unit Manager Meetings scheduled for April and May. Technical discussions normally held during these meetings have been postponed.
- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internally and with the regulators. These are being discussed with the regulators.
- The core sampling program is in a technical stand-down because of a possible problem with sample recovery. Less material is being recovered than is expected. Core samples were taken from SST 241-T-105, and the problem appears to have persisted. Until this is resolved, no further core samples are being taken.
- This milestone is being reevaluated under the New Technical Strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.

\$ Millions



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.4	16.0	17.8	19.6	21.5	23.5
FYTD Actual	0.6	3.1	4.9	6.9	8.7	11.4	14.3	17.4				
Spending Var	1.1	0.6	0.7	0.8	0.9	0.0	(0.9)	(1.4)				

Variance Explanation: None required.

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MAJOR MILESTONE: M-11-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Installed walls, ceiling, and roof pieces of load-in/load-out and sample preparation compartments, and bolted all pieces together.
- Continued installing duct work.

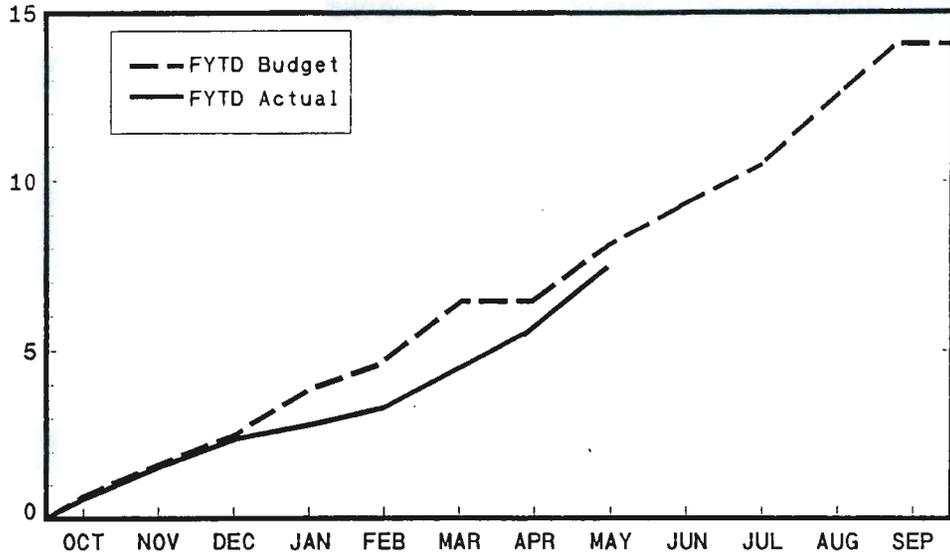
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue welding interior of load-in/load-out and sample preparation compartments. Install remaining tunnel pieces, and attach all transfer drawers and compartments to hot cell.
- Start installation of electrical, ventilation, and piped services in and around hot cell.
- Receive shielding windows and manipulators.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology and EPA approved the Class III change request for target milestone M-11-00-T1 ("Complete Construction").

\$ Millions



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.5	6.5	8.3	9.6	11.0	13.0	14.1
FYTD Actual	0.6	1.5	2.4	2.8	3.4	4.5	5.7	7.6				
Spending Var	0.2	0.1	0.2	1.1	1.3	2.0	0.8	0.7				

Variance Explanation: None required.

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MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual beginning
calendar year (CY) 1993PROJECTED DATE: Annual beginning
CY 1993

DESCRIPTION: Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/corrective measures study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-13-01	Submit 100-BC-2 work plan.	5/21/93	5/21/93 complete
M-13-03	Submit 100-HR-2 work plan.	6/93	6/93
M-13-04	Submit 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit 200-BP-5 work plan.	12/93	12/93

ACCOMPLISHMENTS

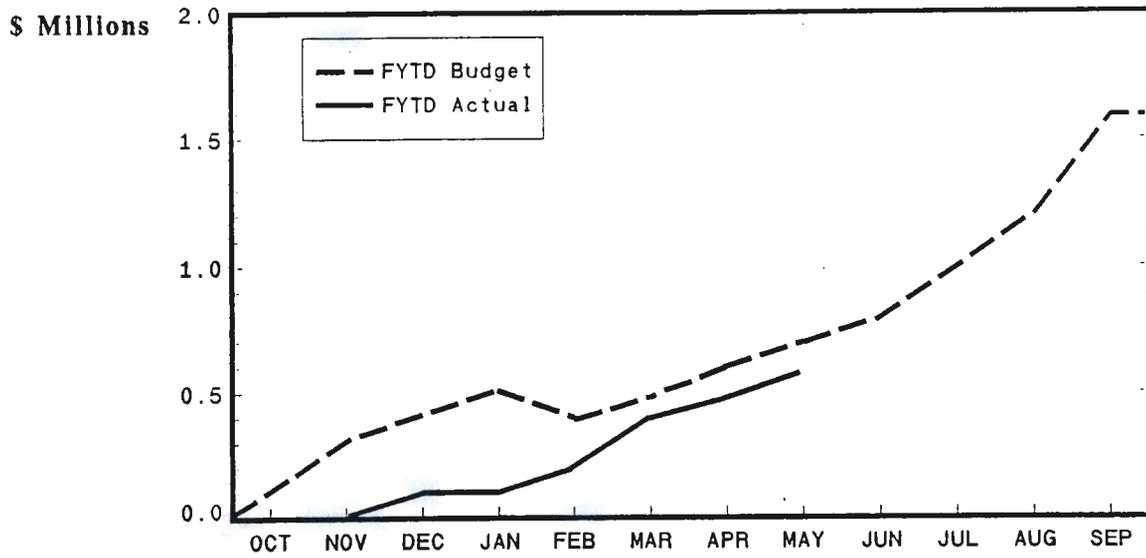
- Submitted the OU 100-BC-2 work plan to RL completing interim milestone M-13-01.
- Submitted to RL Tri-Party Agreement change request M-13-93-01 for integrating OU 200-BP-11 and RCRA past practice work plan for 1994.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the OU 100-HR-2 work plan to the regulators for review.
- Submit the OU 200-ZP-1 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.
- Continue to resolve scheduling conflicts between N Operations and environmental restoration for the OU 100-NR-1 and 100-NR-2 work plans.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.6
FYTD Actual	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.6				
Spending Var	0.1	0.3	0.3	0.4	0.2	0.1	0.1	0.1				

Variance Explanation: The cost underrun results from the OU 100-BC-2 and 100-HR-2 work plans being prepared in house by Westinghouse Hanford Company (WHC) personnel as opposed to an offsite subcontractor.

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MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Construction:
 - Maintained construction on schedule. Installation of heating, ventilation, and air conditioning electrical and instrumentation roughed in. Continued interior finishing.
 - Received the first half of the Analytical Laboratory components from the manufacturer. First sections of corridor and mechanical chase and 10 laboratory rooms set in place. Second set of corridor, mechanical chase, and rooms ready for setting.
- Auxiliary Structures:
 - Installed partitions and rough-in electrical of Environmental Data Remedial Tracking Facility Building 6270.
 - Completed roof, exterior walls, and overhead doors for the Mobile Lab Storage Facility Building 6269.
 - Walls and roof completed for the Environmental Sample Archive Building 6267.
 - Completed masonry walls and roof of Utility Building (6265).
 - Completed masonry walls and roof of the Solid Waste Storage (SWS) Building 6265A.

- Startup Activities:
 - Completed operating organization, staffing plan, and draft of plant readiness plan.
 - Issued maintenance administration manual, final safety analysis report for review, draft of septic system maintenance manual, and purchase requests for major analytical equipment.
- Commercial Laboratory:
 - Requested and received responses to clarification questions from the offerers.
 - Received best and final offers on schedule at end of May 1993.

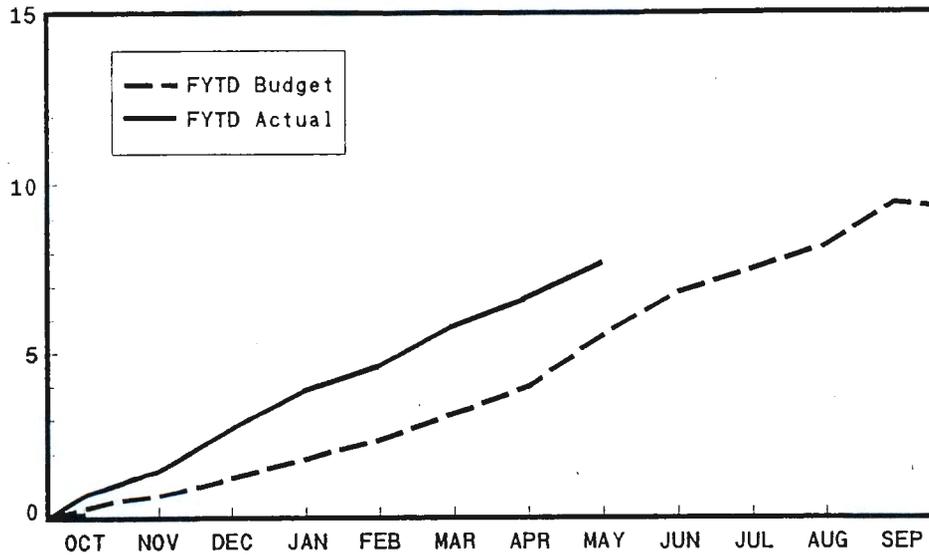
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Construction:
 - Complete WSCF construction. Complete receipt, assembly, and testing of Analytical Laboratory.
- Startup activities:
 - Receive and install analytical equipment.
 - Train new staff and start operational readiness review.
- Commercial Laboratory:
 - Continue preparations for award of a commercial laboratory contract by end of July in support of interim milestone M-14-04.

MILESTONE STATUS/PROBLEMS/ISSUES

Nothing significant to report.

\$ Millions



FYTD Budget	0.1	0.7	1.3	1.8	2.4	3.1	4.2	5.8	7.0	8.2	8.6	9.4
FYTD Actual	0.7	1.5	2.8	3.9	4.5	5.8	6.7	7.7				
Spending Var	(0.6)	(0.8)	(1.5)	(2.1)	(2.1)	(2.7)	(2.5)	(1.9)				

Variance Explanation: The cost overrun results from the exclusion of previous years' capital budgets. Spending rates continue as planned to support the April 1994 waste sampling characterization facility startup. With previous years' capital budget included, trends indicate this project to complete at the approved project budget level.

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MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-15-02D	Submit draft Phase I, II, and III FS for OU 200-BP-1 source areas.	6/30/93	6/30/93
M-15-02E	Submit draft barrier constructability report to EPA and Ecology.	1/31/94	1/31/94
M-15-03B	Submit RI Phase II report for OU 300-FF-1 to EPA and Ecology.	12/31/93	12/31/93
M-15-04A	Submit draft for OU 300-FF-5 FS Phase I and II report to EPA and Ecology.	7/15/93	7/15/93
M-15-05A	Submit OU 100-HR-1 Limited Field Investigation Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-06A	Submit OU 100-HR-3 Limited Field Investigation Report to Ecology and EPA.	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-07A	Submit OU 100-DR-1 Limited Field Investigation Report to Ecology and EPA.	08/09/93	08/09/93
M-15-08B	Submit OU 100-BC-1 Limited Field Investigation Report to Ecology and EPA.	7/31/93	7/31/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-09B	Submit OU 100-BC-5 Limited Field Investigation Report to Ecology and EPA.	8/31/93	8/31/93

Milestone	Description	Baseline	Projected
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93
M-15-11B	Submit OU 100-KR-4 Limited Field Investigation Report to Ecology and EPA.	1/12/94	1/12/94
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13E	Submit validated data of all sampling activities associated with Section 5.1.1.6, "Groundwater Investigation," for OU 100-FR-3 to Ecology and EPA.	6/14/93	6/14/93
M-15-13F	Submit OU 100-FR-3 Limited Field Investigation Report to Ecology and EPA.	4/14/94	4/14/94

ACCOMPLISHMENTS

- Distributed 1100 Area Consolidated RI/FS and Proposed Plan to the regulators, public, and Native American tribes.
- Received regulator approval of change request M-15-92-6 establishing 100-DR-1 interim milestones.
- Submitted the LFI decisional draft for OU 100-BC-1 to RL and HQ.
- Submitted the quantitative risk assessment and LFI reports for OU 100-BC-5 to RL for review.
- Completed a draft of the OU 100-HR-1 LFI report.
- Finalized the Semi-Works aggregate area management study report and transmitted to RL to forward to the regulators.
- Received regulator approval of change request C-93-03B redefining waste management units associated with OU 200-UP-2.
- Submitted the draft schedule for OU 200-UP-2 to the regulators for review and comment.

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- Received regulator approval of change request C-93-04, redefining OU boundaries for 200-ZP-1 and 200-ZP-2.
- Submitted the OU 300-FF-5 FS Phase I and II report to RL for review.
- Submitted the OU 300-FF-1 WHC soil washing equipment test plan to RL and regulators for review.
- Initiated field testing of EPA equipment for the soil washing test for OU 300-FF-1 at a cold (nonradioactive) site to ensure all equipment is functioning before conducting the test at the OU.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Hold public meeting on the 1100 Area Proposed Plan at the Richland Library on June 30, 1993.
- Prepare Responsiveness Summary to public review comments on Proposed Plan at the end of public comment period (July 9, 1993).
- Submit the LFI report to RL and regulators, August 9, 1993, for OU 100-DR-1.
- Complete the fifth round of groundwater sampling for OU 100-BC-5 in September 1993.
- Submit validated data for the third round of groundwater sampling at OU 100-BC-5 to RL at the beginning of June 1993.
- Submit OU 100-BC-1 LFI report to the regulators, July 30, 1993.
- Perform LFI in July 1993 at (116-C-2A Pluto Crib) for OU 100-BC-2.
- Submit the OU 100-HR-3 LFI report to the regulators, October 31, 1993.
- Complete the OU 100-HR-3 fifth round of groundwater sampling in August 1993.
- Issue 200 North AAMS report to RL the end of June 1993.
- Complete the definitive design of the Hanford Prototype Barrier in June 1993.
- Issue Treatability Test Plan for the Prototype Barrier in June 1993.
- Complete the OU 200-BP-1 eighth round of groundwater sampling by August 1993.
- Submit the OU 200-BP-1 FS I, II, III Report to the regulators, June 30, 1993, completing Tri-Party Agreement milestone M-15-02E.
- Initiate construction of the Hanford Prototype Barrier in September 1993.

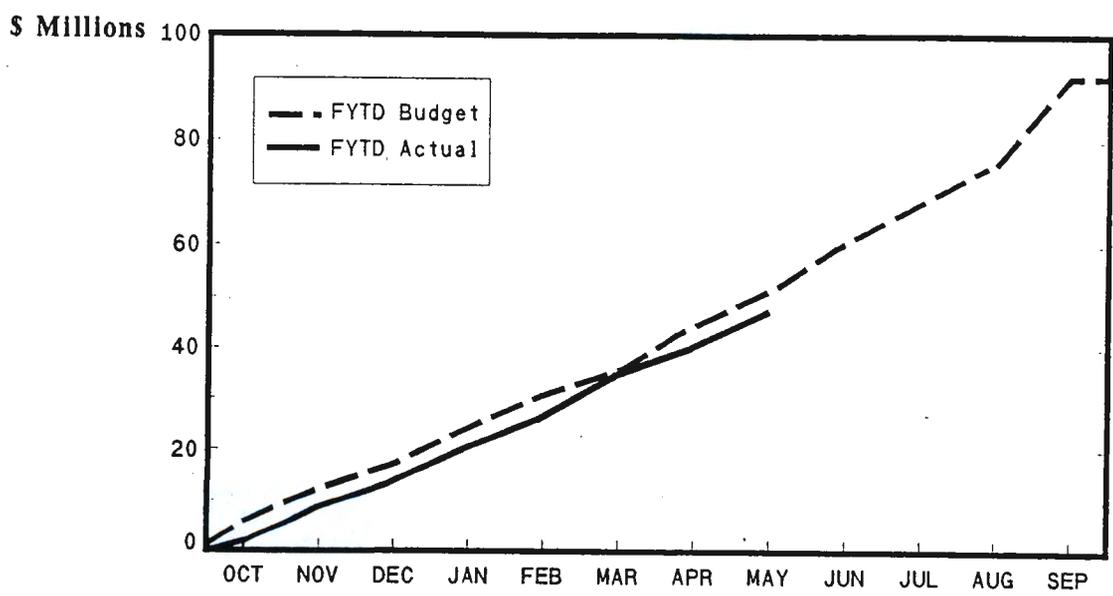
- Complete regulator comment disposition on the OU 200-UP-2 work plan schedule and approve the work plan to commence field activities.
- Submit the OU 200-BP-5 change request for groundwater-only OU in June 1993 to the regulators.
- Submit the 300-FF-5 Draft FS Phase I and II report to EPA and Ecology in July 1993, completing milestone M-15-04A.
- Submit the 300-FF-5 RI Phase I report to the regulators in July 1993, completing milestone M-15-04-T1.
- Transport soil washing equipment to 300 Area contaminated zone for the soil washing test in June 1993 at OU 300-FF-1.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- Negotiations are still ongoing to resolve open issues about the OU 100-HR-1 excavation treatability test. The main issues to be resolved concern interim storage of the excavated soil and follow-on treatability tests using the retrieved, stored soil.

The three parties are close to reaching an agreement on these issues and the test plan has been revised and has been issued as revision zero. Ecology prepared the focus sheet for this treatability test, which will be submitted for public review on June 7, 1993.

Agreement still must be reached on these issues in order to begin excavation activities by September 1993.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	4.6	11.0	17.2	24.7	29.9	38.5	44.8	52.2	59.7	67.3	76.8	92.4
FYTD Actual	2.3	9.1	14.3	21.2	27.2	34.7	41.5	48.1				
Spending Var	2.3	1.9	2.9	3.5	2.7	3.8	3.3	4.1				

Variance Explanation: None required.

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WHC-MR-0403-7

MAJOR MILESTONE: M-16-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

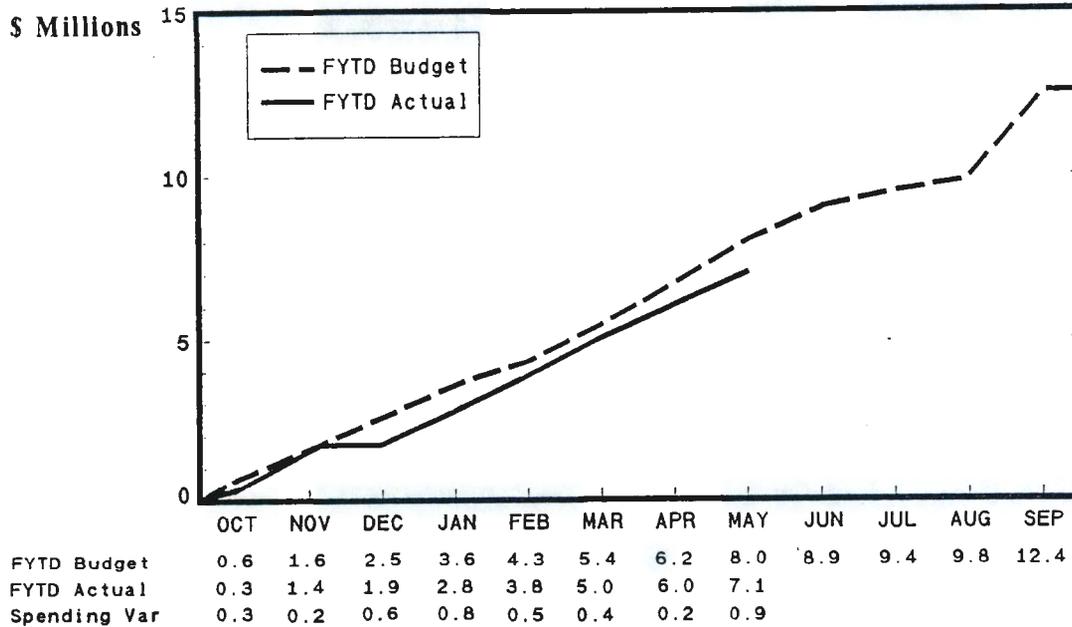
- Initiated public review of the Riverland expedited response action (ERA) proposal at the beginning of May 1993.
- Continued vapor extraction operations at the carbon tetrachloride ERA site. To date, 7,160 pounds of carbon tetrachloride have been removed.
- Perforated four existing wells, completed one new well, and initiated two new wells at the carbon tetrachloride site in April and May 1993 for inclusion in the extraction well network. To date, a total of 34 wells have been drilled or modified for vapor extraction purposes.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Deliver the White Bluffs Pickling Acid Crib ERA to RL in June 1993.
- Complete remediation of the Riverland Rail site by September 1993.
- Complete disposal of four remaining drums from sodium dichromate that are considered hazardous waste.
- Complete reseeding and revegetation this fall at the sodium dichromate ERA site.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: Activities have not yet begun at the proposed Groundwater ERA in the OU 200-ZP-1 because the regulators have not approved the ERA. The N Springs ERA project safety documentation has cost less than planned. The North Slope ERA schedule variance results from the slip in cultural resources survey schedule. The Pickling Acid Crib ERA field cleanup activities are delayed until the ERA proposal is complete.

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MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:

BASELINE DATE: June 1995

PROJECTED DATE: June 1995

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

ACCOMPLISHMENTS

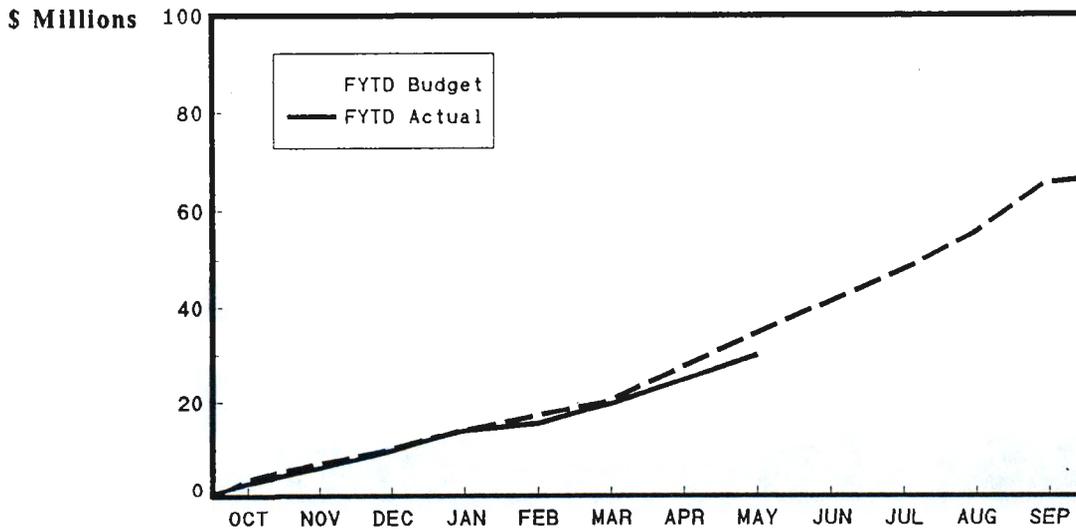
- Approved two minor changes packages (i.e., Class III Changes) for this milestone. These changes pertained to modifications required to implement the Sampling and Analysis Plans. Proposed changes include a modification of analytical methods to be used to determine specific parameters (i.e., nitrate, nitrite, and acidity) such as sampling locations. These changes will not affect the quality of effluent or affect the quality or reliability of sampling results.
- Initiated construction for the 200 Area Treated Effluent Disposal Facility (Project W-049H). Kaiser Engineering Hanford started excavation for pump pits and road crossings that were likely to occur in radiologically contaminated areas. Official groundbreaking for this project is tentatively scheduled for June 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate construction of the 300 Area Treated Effluent Treatment Facility. Construction start is tentatively scheduled for June 1993.
- Submit groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by September 1993 (milestone M-17-13).
- Submit the groundwater assessment plans to EPA and Ecology for the Crib 216-U-17 by June 1993 and the 100-D Ponds by July 1993 (milestone M-17-13).
- Submit the State Waste Discharge permit application to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site.
- Submit the 80% design report to EPA and Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site and treatment facility.
- Submit the addendum to the *WAC 173-240 Engineering Report to Ecology for the 200 Area Effluent Treatment Facility* (Project C-018H). The addendum will address pilot plant test results.
- Submit the addendum to the *WAC 173-240 Engineering Report to Ecology for the 200 Area Treated Effluent Disposal Site* (Project C-018H) disposal site characterization work plan. This report will transmit the results of the site characterization activities for the 200 Area Treated Effluent Disposal Site (Project C-018H).
- Obtain Key Decision 1, approval to proceed with advanced conceptual design, from HQ for Project W-252 ("200 Area Phase II Stream Treated Effluent Disposal Facility").
- Obtain approval from HQ for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.

MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17 have been maintained.
- Approval from HQ has been delayed for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	27.5	34.7	41.5	48.5	56.2	66.1
FYTD Actual	2.4	6.9	10.7	14.1	17.3	20.2	25.3	30.1				
Spending Var	(2.1)	(2.6)	(2.4)	(1.2)	(1.1)	0.2	2.2	4.6				

Variance Explanation: The cost underrun is caused by (1) treatability testing at C-018 is deferred to FY 1994 because feed from LERF is unavailable; (2) C-018 construction billings are delayed causing a difference in anticipated cash flows; (3) interim compliance sampling activities are behind schedule as a result of delays in sampling procedure approval, however schedule recovery is expected by the end of FY 1993; (4) NPDES has been delayed on 300 Area TEDF; (5) L-045 construction start is delayed 1 month because the contract award was delayed, but schedule recovery is anticipated; and (6) lag in billings from various contractors is a major contributor to variance. Overall schedule impacts, resulting from a delay in expenditure of funds, are not anticipated.

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WHC-MR-0403-7

**MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: MAY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility, Module 1, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

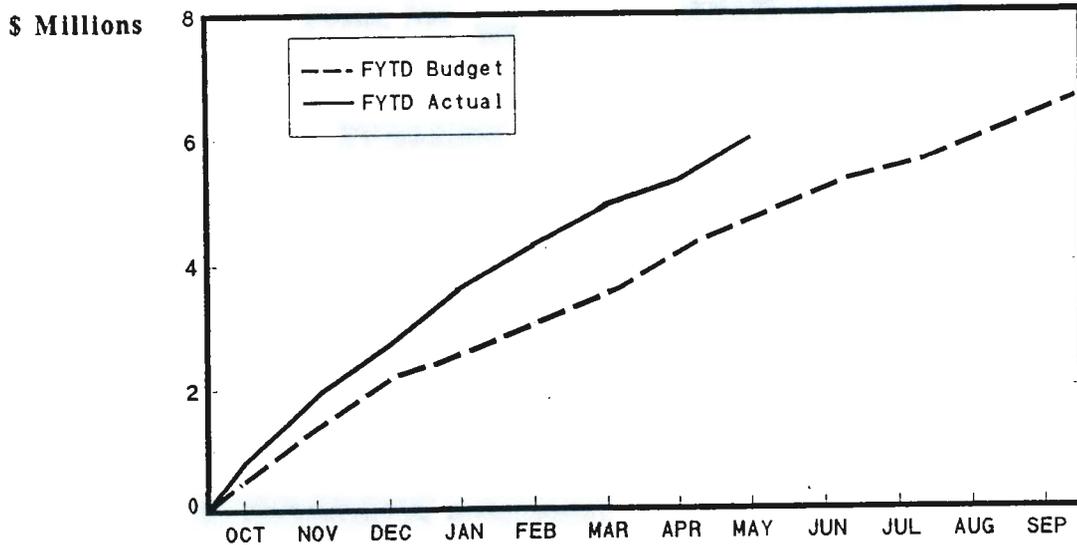
- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement unit managers' meeting.
- The contractor completed Title 2 design activities and sent the design package to RL.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate construction of WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the preliminary safety analysis report for the WRAP Facility, Module 1.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.2	4.6	5.1	5.5	5.9	6.3
FYTD Actual	0.8	1.9	2.7	3.6	4.2	4.9	5.2	6.0				
Spending Var	(0.3)	(0.5)	(0.5)	(1.0)	(1.1)	(1.2)	(1.0)	(1.4)				

Variance Explanation: The cost overrun is caused by expedited completion of the glovebox enclosures, which were required to support architect-engineer design. Resources needed to complete this effort were underestimated, but are being offset by deletion of the supercompactor. No impact to total project cost is anticipated.

WHC-MR-0403-7

**MAJOR MILESTONE: M-19-00
STATUS FOR END OF MONTH: MAY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Contractor developed draft waste feed specification for treatment in WRAP Facility, Module 2A.
- Initiated update to the functional design criteria for WRAP Facility, Module 2.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

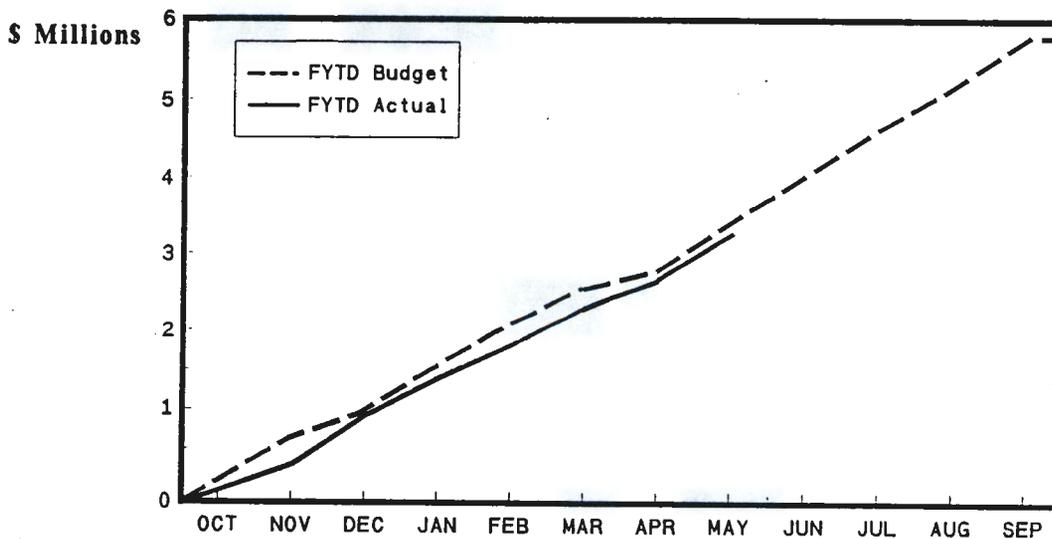
- Continue preparation of the advanced conceptual design for WRAP Facility, Module 2A.
- Obtain approval of Tri-Party Agreement change request M-19-91-01 from Ecology and EPA.
- Continue with waste form verification and in-drum mixing testing.
- Initiate activities for the development of the WRAP Facility, Module 2A, preliminary safety analysis report.
- Obtain Key Decision 1 for WRAP Facility, Module 2A, from HQ. This decision is required to proceed into definitive design of the project.

MILESTONE STATUS/PROBLEMS/ISSUES

- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance criteria issues. Work on the portion of WRAP Facility, Module 2 (i.e., WRAP Facility, Module 2B) that will receive and process remote handled transuranic waste contaminated hazardous waste (i.e., mixed remote handled transuranic waste) is behind schedule. The portion of WRAP

Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., WRAP Facility, Module 2A) remains on schedule. The submodularization of WRAP Facility, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement milestone M-19-00 due date.



FYTD Budget	0.2	0.7	1.0	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.2	5.9
FYTD Actual	0.1	0.4	0.9	1.4	1.8	2.3	2.7	3.3				
Spending Var	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.1				

Variance Explanation: None required.

WHC-MR-0403-7

MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 200 Area Effluent Treatment Facility** Part B.	8/93	8/93

*See "Milestone Status/Problems/Issues."

**The unit name has been changed from the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

ACCOMPLISHMENTS

- The three parties approved a change request that creates a milestone (M-20-48) to submit a Hanford Facility Dangerous Waste Permit Application portion for the 241-Z Treatment and Storage Facility on May 31, 1996.
- The three parties approved a change request that creates a milestone (M-20-51) to submit a Hanford Facility Dangerous Waste Permit Application portion for the T Plant Complex on December 21, 1995.
- Submitted a revised Hanford Facility Dangerous Waste Part A Permit Application Form 3 for Crib 216-A-37-1 to Ecology.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit a Notice of Intent to expand treatment and storage capacities at the DST System.
- Respond to Notices of Deficiency for the following Hanford Facility Dangerous Waste Permit Application portions: DST System (M-20-16, submitted June 1991); Liquid Effluent Retention Facility (M-20-47, submitted June 1991); 305-B Storage Unit, Revision 1 (M-20-08, submitted

November 1990); 616 Nonradioactive Dangerous Waste Storage Facility, Revision 2 (M-20-02, submitted October 1991); Grout Treatment Facility, Revision 2 (no Tri-Party Agreement milestone number, submitted July 1992); WRAP Facility (M-20-12, submitted October 1991); Radioactive Mixed Waste Storage Facility (M-20-05, submitted October 1991); and the 222-S Laboratory Complex (M-20-22, submitted December 1991).

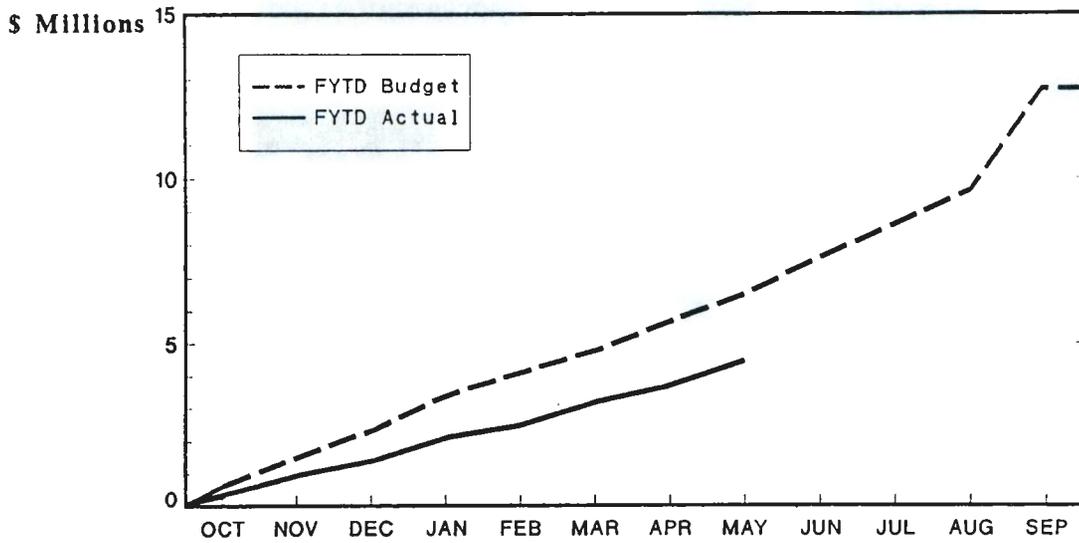
- Respond to Notices of Deficiency for the Hanford Patrol Academy Demolition Site (M-20-25, submitted November 25, 1992), the Ashpit Demolition Site Closure Plan (M-20-26, submitted November 25, 1992), the Hexone Storage and Treatment Closure Plan (M-20-27, submitted November 25, 1992), the E-8 Borrow Pit Closure Plan (M-20-28, submitted November 25, 1992), the 216-B-3 Pond System Closure/Postclosure Plan (M-20-09, submitted March 31, 1990), and the 100-D Ponds Closure Plan (M-20-40, submitted February 26, 1993).
- Revise 105-DR Large Sodium Fire Facility Closure Plan, 2101-M Pond Closure Plan, 304 Concretion Facility Closure Plan, and 303-K Radioactive Mixed Waste Storage Facility Closure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 325/3100 Hazardous Waste Treatment Unit, Liquid Effluent Retention Facility, 207-A South Retention Basin, 200 Area Effluent Treatment Facility, and the T Plant Complex.
- Submit the 200 Area Effluent Treatment Facility Part B permit application to Ecology and the EPA in compliance with milestone M-20-50.
- Submit the Hanford Facility Dangerous Waste Permit Application, General Information.
- Submit a change request to modify Tri-Party Agreement milestone M-20-24 to require submittal of a closure plan for the Plutonium-Uranium Extraction (PUREX) Plant in July 1995.

MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete milestone M-20-30. Ecology denied both. RL then prepared a notice of dispute and met with Ecology to begin resolution. During the February Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Project Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated that its position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A letter is being

prepared to transmit a Tri-Party Agreement issue resolution worksheet reflecting RL's position to delay any action for this TSD unit until the operable unit remediation is completed.

- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the current milestone date. The Part B permit application was sent to RL for review on May 18, 1993.
- M-20-42, Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application can be prepared. A revised Tri-Party Agreement change package to delay submittal of this Part B permit application from December 31, 1993, to December 31, 1994, was transmitted to RL on May 19, 1993 for review and approval. The original change package (M-20-92-7) was submitted to RL for approval on October 27, 1992.
- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities of the past practice operable unit, 200-BP-11, with the closure activities of the 216-B-3 Pond System. This strategy supports the activities needed to administratively clean close the 216-B-3B and -3C lobes and partially close the 216-B-3 main pond and -3A lobe by June 1995. The three parties must decide on this strategy to allow for continued use of the 216-B-3B and -3C lobes to support liquid effluent disposal (216 Consent Order). This integration information was discussed with the Ecology Kennewick Office. Discussions with Ecology are continuing.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A tabulation of updates was prepared in September 1992 for the *Hanford Facility Dangerous Waste Permit Application, Revision 0*, for submittal to the regulators, and awaited HQ authorization until late-April 1993. RL was then notified that HQ authorization was no longer required for this action. Rather than submit the tabulation, RL requested that the updates be incorporated into the *Hanford Facility Dangerous Waste Permit Application, General Information, Revision 1*, for submittal to the regulators. This document supersedes the *Hanford Facility Dangerous Waste Permit Application, Revision 0*. The *Hanford Facility Dangerous Waste Permit Application, General Information (DOE/RL-91-28, Rev. 1)* submittal contains information consistent with the *Hanford Site Comments on the Draft Permit for the Treatment, Storage, and Disposal of Dangerous Waste for the Hanford Facility (March 16, 1992)* and the relatively few changes required to make the application current as of March 15, 1993. This document has been certified by WHC and Pacific Northwest Laboratory, is currently in concurrence for certification at RL, and is scheduled to be submitted to the regulators by June 11, 1993. The schedule for EPA and Ecology to reissue the revised Draft Hanford Facility Permit for public comment remains indefinite. A meeting between RL, Ecology, and EPA is scheduled for June 10, 1993, to discuss the status of the issuance of the Hanford Facility Permit.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.7	6.6	7.6	8.5	9.6	12.8
FYTD Actual	0.3	0.9	1.4	2.1	2.5	3.2	3.7	4.4				
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7	2.0	2.2				

Variance Explanation: The cost underrun is caused by continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less-than-planned-support for followon revisions of these documents.

WHC-MR-0403-7

MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional RCRA wells around Crib 1325-N (4 total).	12/93	12/93
M-24-31	Install two additional RCRA wells around the low-level burial grounds (81 total).	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

ACCOMPLISHMENTS

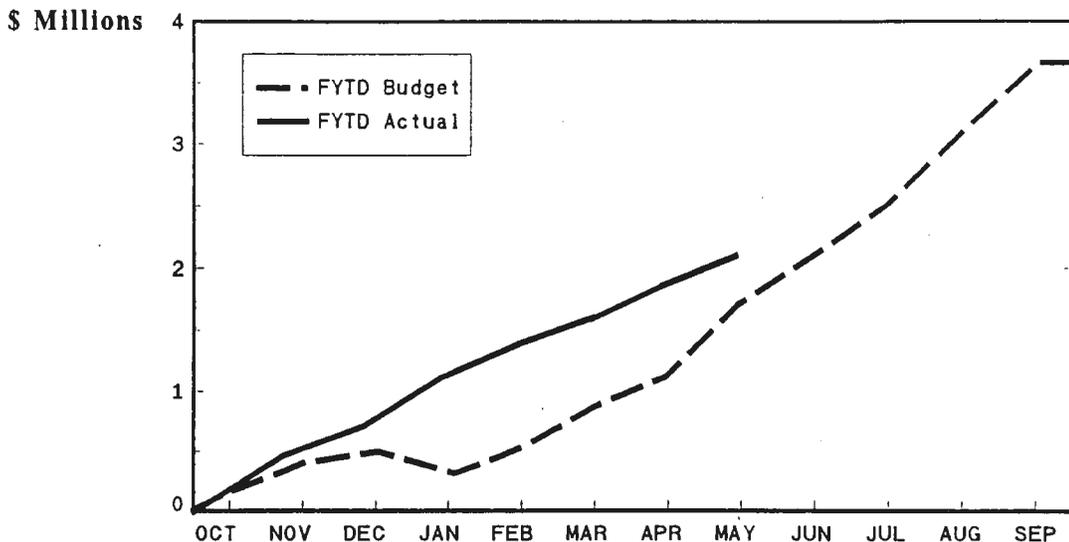
- Selected a fixed-price contractor to drill the groundwater monitoring wells. Contractor should be on site by the end of June.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Proceed with drilling activities for CY 1993 wells.

MILESTONE STATUS/PROBLEMS/ISSUES

- After identifying seven locations for new wells in CY 1993, Ecology and RL agreed that monitoring to be accomplished by one of the wells originally proposed at Crib 1325-N can be accomplished by an existing well. Change request M-24-93-1, which reduces this milestone by one well, has been prepared and submitted to Ecology and EPA.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.9	1.2	1.7	2.1	2.5	3.1	3.7
FYTD Actual	0.1	0.6	0.8	1.1	1.4	1.6	1.9	2.2				
Spending Var	0.1	(0.2)	(0.3)	(0.8)	(0.9)	(0.7)	(0.7)	(0.5)				

Variance Explanation: The cost overrun is an artificial one caused primarily by a reduction in the Project, W-017H, Well Installation. RL de-obligated \$750,000 of the projects' funds in December 1992. This reduction was included in January 1993 and, therefore, appears as a reduction in FY 1993. If you adjust the de-obligation into the FY 1993 budget, the May FYTD budget would be \$2.4 million (\$1,668,700 plus \$750,000) and the variance is within the range of tolerance.

The 19.4 percent increase in the budget at completion (September FYTD) from what was reported in April is caused by an increase in an expense budget via a mid-year rebaselining change request (R4-E93-019). Additional funds were allocated to cover actual costs to date. Additional capital dollars were moved from FY 1994 into FY 1993 to more accurately reflect the FY 1993 work scope.

WHC-MR-0403-7

MAJOR MILESTONE: M-26-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

DESCRIPTION: Submit annual Hanford land disposal restrictions (LDR) report in accordance with the LDR Plan to cover the period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-26-01D	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/94	4/30/94

ACCOMPLISHMENTS

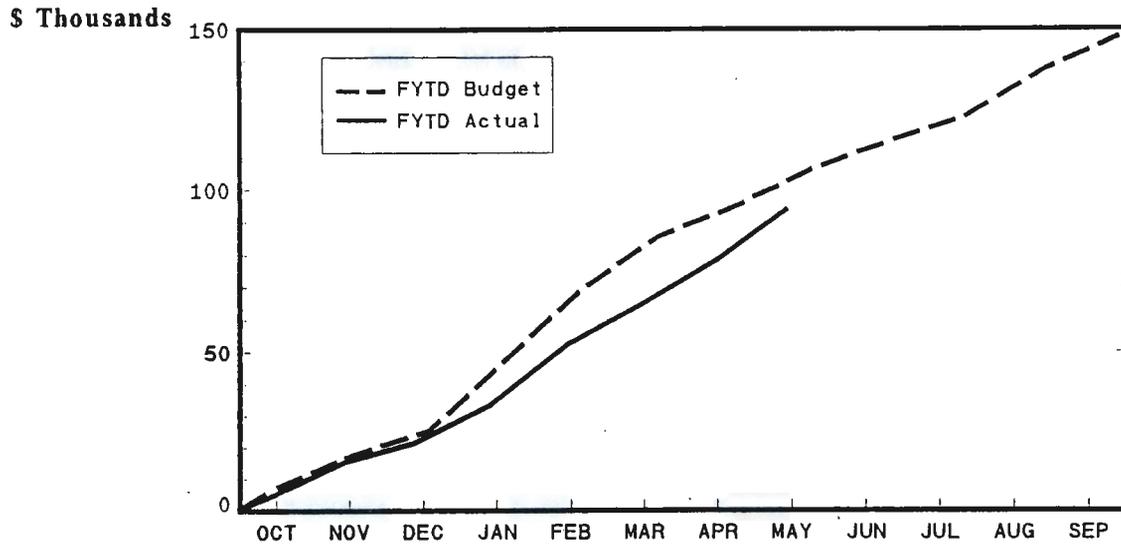
- None to report. Awaiting regulator comments on the 1993 LDR Report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve any regulator comments on the 1993 LDR Report and receive regulator approval of the document.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actual	5.3	16.4	25.1	35.6	52.0	65.4	79.1	94.8				
Spending Var	2.2	1.3	0.4	11.8	17.4	19.9	15.2	11.0				

Variance Explanation: None required. This chart is prepared in thousands of dollars to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions of dollars.

WHC-MR-0403-7

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

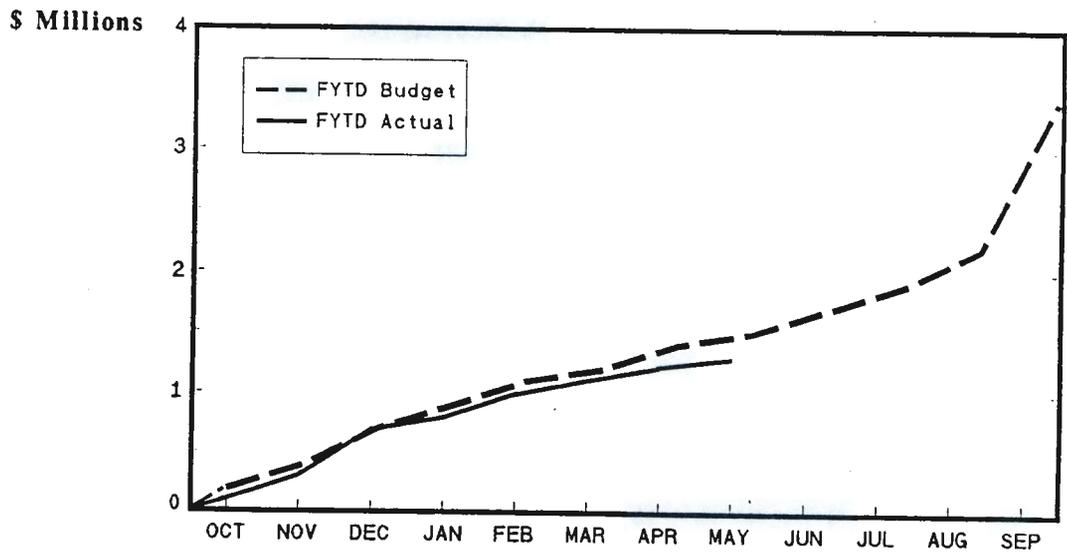
- Submitted a National Priorities List agreement to the regulators for concurrence.
- Issued "Aquatic Studies at the 100-HR-3 and 100-NR-1 OU's."

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue cultural resource reports in July 1993.
- Complete installation of well monitoring equipment.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	3.6
FYTD Actual	0.0	0.3	0.7	0.8	1.0	1.1	1.2	1.3				
Spending Var	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.2				

Variance Explanation: The cost underrun is caused by the resignation of the cultural resources team manager which has delayed the cultural resources project.

WHC-MR-0403-7

MAJOR MILESTONE: M-31-00
 STATUS FOR END OF MONTH: MAY 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

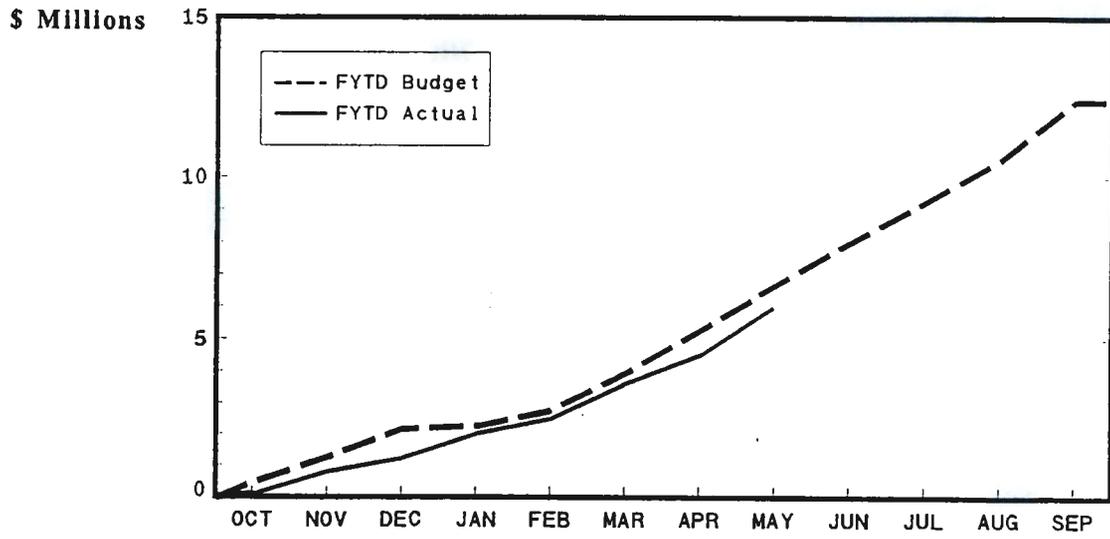
Nothing significant to report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve the issues associated with the Ecology denial of change request M-31-92-03.
- Continue preliminary design of the New Multi-Function Waste Tank Facility.

MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology reviewed meeting minutes for the August 1992 Tri-Party Agreement milestone management review meeting and concluded that the delay in submitting Milestone M-31-02, "Recommend Additional Tank Milestones," had been discussed at the Project Managers' meeting well in advance of the actual submittal of the change request. Ecology verbally recommended that the change request be accepted as written.



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYTD Budget	0.4	1.2	2.1	2.3	2.8	3.9	5.1	6.6	7.9	9.2	10.7	12.3
FYTD Actual	0.0	0.8	1.2	2.0	2.5	3.6	4.5	6.0				
Spending Var	0.4	0.4	0.9	0.3	0.3	0.3	0.6	0.6				

Variance Explanation: None required.

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