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Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
EPA Conference Room
Richland, Washington
April 22, 1992

From/
Appvl.: [Signature] Date: 6/26/92
Steven H. Wisness, RL (A5-19)
Hanford Project Manager

Appvl.: [Signature] Date: 6/24/92
Paul T. Day, EPA (A5-01)
Hanford Project Manager

Appvl.: [Signature] Date: 6/24/92
David B. Jansen
Hanford Project Manager

Prepared by
Appvl.: [Signature] Date: 6/24/92
Tim Veneziano, Westinghouse Hanford Company

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ATTENDEES

TPA MILESTONE MANAGEMENT REVIEW

APRIL 22, 1992

FED/ROOM 780

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>
J.E. Rasmussen	DOE - RL	A5-15
JON YERXA	DOE - RL	A5-15
Dan Sours	DOE - RL	
K. Michael Thompson	DOE - RL	A5-15
MERRY ACHARD	WHC	B2-35
JULIE ERICKSON	DOE - RL	A5-19
Rick Wojasick	DOE WHC	L2-94

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TPA MILESTONE MANAGEMENT REVIEW

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<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>
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<u>LANCE MAMUDA</u>	<u>RL - WMD</u>	<u>A5-21</u>
<u>Tony DiLiberto</u>	<u>WHC - LIQUID EFFLUENT PROGRAM</u>	<u>R1-48</u>
<u>Dore Kelley</u>	<u>WHC - " " "</u>	<u>R1-48</u>
<u>Lana Bryson</u>	<u>RL - WMD</u>	<u>A#5-21</u>
<u>JUNE M. HENNING</u>	<u>RL - WMD</u>	
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Appvl.: David B. Jansen Date: _____
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Prepared by
Appvl.: Tim Veneziano, Westinghouse Hanford Company Date: _____

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1. MEETING MINUTES

The minutes from the March meeting were signed by all parties.

2. MILESTONE M-17

The information (attachment 1) was presented by Dana Bryson of RL. In the accomplishments area, M-17-35A was highlighted. The EPA questioned the status of the design for L-045. The engineering summary report (approximately 30% design completion) was completed on January 1992. At present, design completion is scheduled for December 1992 and construction will begin in August 1993. The December 1994 start-up date was discussed and the RL position is that the schedule is very tight. The start of construction is in conflict with the August 1992 date Ecology presented at the recent public meetings.

During the planned action discussion, the Impact Assessment Methodology was discussed.

Action: EPA and Ecology will provide a date by which they will complete review of the impact assessment methodology document.

Actionee: PT Day/DB Jansen **Due:** April 24, 1992

The EPA questioned the N-Reactor NPDES schedule status. Although tight, the M-17-15D schedule still can be met.

The milestone (M-17-14B) for pilot plant testing using actual 242-A Evaporator condensate was discussed. Because the evaporator will not be restarted by June, discussions have been held with EPA-HQ to eliminate the use of hot feed to support the delisting petition. The RL provided a letter to EPA and Ecology requesting elimination of milestone M-17-14B.

Action: Provide EPA and Ecology with copies of the meeting minutes from the meeting with EPA-HQ on eliminating hot feed from the C-018 delisting effort. Also provide a timeline to the December 1994 hot start-up that shows no delisting activities.

Actionee: DC Bryson **Due:** May 4, 1992

There was discussion on Ecology and EPA turn-around time for document reviews. Turn-around is improving but many documents will be produced in the next several months. Ecology stated this area should improve as most of this work is being moved to the Kennewick office.

During discussion of funding, there was agreement that no fiscal year (FY) 1992 funding issues exist at this time. The RL stated that if any issues resulted from

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the mid-year review, these issues will be brought immediately to the attention of the regulators.

3. MILESTONE M-26-03 and M-26-04

Dana Bryson of RL discussed this area (attachment 1). Restart of the 242-A Evaporator was discussed and EPA questioned RL's upper management involvement. The reply was that upper management is very involved within RL.

4. LAUNDRY PRIVATIZATION

The information (attachment 2) was presented by Dan Sours of RL. The decision to privatize or not should be made in the next couple of weeks. DOE proposed a process to avoid the appearance of a unilateral decision and to eliminate the present parallel path effort. Ecology expressed concern on the vulnerability of a private laundry to challenges to discharge of their liquid releases. Ecology and EPA expressed a desire to change the M-17-34 date to phase it with the start-up of a new private laundry. RL stated that this could be discussed but that some contingency should be maintained. EPA stated that they do not want any sampling and analysis plan (SAP) and impact assessment work for the laundry effluent to the existing crib to be stopped. RL is preparing a letter that will request Ecology and EPA agreement on the approach.

5. PAST-PRACTICES

The information (attachment 3) was presented by Julie K. Erickson of RL.

M-12. On 200-UP-2, a change request is being prepared to change the scope based on the U-Plant AAMSR. With regard to spending, M-12 has spent more than projected. There was a discussion on the volume of comments and differences between comments from EPA and Ecology on the work plans. Ecology requested that the Project Manager be informed if there are consistent differences between EPA and Ecology. EPA stated that the volume of comments could be reduced by involving the regulators earlier.

M-13. There are three-party discussions being held in which work plans should be submitted in calendar year 1993. The goal of the discussions is to pick work plans that allow achievable, meaningful remediation as soon as possible. The original prioritization shown in the Tri-Party Agreement may no longer be appropriate.

M-27. This area is reported as on schedule. With regard to funding, it is expected this area will overrun but that funding from other projects which are underspent will be shifted to maintain the schedule.

M-28. This area was reported as on schedule. There was a discussion of the meeting held yesterday (April 21) on the M-28-03 submittal. The submittal will not contain all the statistical analysis and a secondary submittal will most likely be made in June. This approach appeared well-received by EPA and Ecology. Ecology said that soon the state will be publishing background values of a number of contaminants across the state in support of the MTCA. A crosswalk between the state report and M-28 will be needed. With regard to

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spending, this milestone will be over-spent due to primarily late receipt of laboratory results and the resulting overtime to prepare the report. Concurrent with the April M-28-03 submittal, RL will propose follow-on work, including establishment of radionuclides background values with proposed delivery dates.

M-29. This milestone was reported as completed since the document has been submitted. The document will be reviewed by the regulators and, when finalized, be added to Appendix F. Until all actions are done, RL will continue to report this area.

M-30. There was a discussion on EPA's comment that the Springs and Seeps Sampling Report provided in February 1992 did not contain all information that had been agreed upon. EPA provided the document and their comments to all three Indian Nations. This led to discussion on the timing of providing documents to the Indian Nations (i.e. before or after the regulators review). The milestone was reported as on schedule.

M-15. There was discussion on the four ERA planning proposals recently provided to the regulators. EPA and Ecology will be providing RL with a letter concurring on the proposals for sodium dichromate and the North Slope. There was discussion on the planned action to drill boreholes at 100K. EPA has not concurred with this action and the work will be held-up starting Friday (April 24).

Action: EPA will review the issue on installing boreholes at 100K and provide feedback to RL.

Actionee: PT Day

Due: April 23, 1992

There was discussion on the phasing of approval of the work plan and start of work. EPA's position is that one phase should roll directly into the next. The RL position was that this is ideal but scheduling and funding considerations do not allow this. EPA's concern is that in our present manner of working, periods of time where no work is being done occur and this is difficult to defend to the public and for the regulators to accept. EPA stated they will provide written comment that they are dissatisfied with the process that defers field work for a period of months after the work plan is approved. With regard to spending, an underrun in M-15 is anticipated in FY92.

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**Complete Liquid Effluent Treatment
Facilities/Upgrades
For All Phase I & Phase II Streams**

Milestone M-17-00

April 22, 1992

Milestone Description

M-17-00A

Complete liquid effluent treatment facilities/upgrades for all Phase I effluent streams. Interim milestones for Phase I streams include the development and implementation of:

- An impact assessment methodology
- Sampling and analysis plans
- Treatment system design & construction commitments
- Interim flow restrictions and dates for ceasing discharges.

Deliverable(s)

Deliverables include the completion and submittal of sampling and analysis plans to the EPA and Ecology for approval. Also, interim operation restrictions, in particular flow restrictions and flow measurement, are included for priority effluent streams. Implementation of treatment facilities/upgrades for Phase I effluent streams is the ultimate deliverable.

Baseline

Complete treatment facilities/upgrades for Phase I Effluent Streams by June 1995.

Milestone Description

M-17-00B

Complete implementation of BAT/AKART for all Phase II Liquid Effluent Streams. Interim milestones for Phase II streams include the development and implementation of:

- An impact assessment methodology
- Sampling and analysis plans
- BAT/AKART analysis
- Interim flow restrictions and dates for ceasing discharge

Deliverable(s)

Deliverables include the completion and submittal of sampling and analysis plans to the EPA and Ecology for approval. Also, interim operating restrictions, applied to some Phase II Effluent Streams. BAT/AKART analysis are scheduled for completion and submittal to the EPA and Ecology for approval, with ultimate implementation of the recommended treatment technologies.

Baseline

Implement BAT/AKART for all Phase II Streams by 10/97.

Accomplishments for the last 3 months

- All M17 interim milestones completed on time

<u>Interim Milestone</u>	<u>Description</u>	<u>Due Date</u>
M-17-04A	Submit SAP B Plant Chem. Sewer	1/31/92
M-17-04B	Discontinue B Plant Chem. Sewer discharge to 216-B-3 Ditch	2/29/92
M-17-06B	Submit 300 Area Process Sewer Effluent Characterization Report	3/31/92
M-17-08A	Submit Project W-049H Design construction schedule	2/29/92
M-17-14A	Submit Arch/Eng Firm design/ construction schedule for 242-A Evap. Project C-018H to EPA/Ecology	2/29/92
M-17-15B	Submit N-Reactor Effluent BAT/ AKART Evaluation to EPA/Ecology	1/31/92

Accomplishments for the last 3 months (Continued)

M-17-15C	Submit plant cease discharge of all Liquid Effluent to 1325-N LWDF	1/31/92
M-17-17B	Cease discharge of 216-U-14 Ditch surface contamination control water	2/29/92
M-17-34A	Submit SAP 2724-W Laundry Waste Water to EPA/Ecology	1/31/92
M-17-34B	Complete const. 2724-W wastewater treatment project B-697	1/31/92
M-17-39A	Submit SAP for 222-S Laboratory wastewater to EPA/Ecology	1/31/92
M-17-41A	Submit SAP for T Plant Wastewater to EPA/Ecology	1/31/92
M-17-43A	Eliminate HVAC 2 through 9 cooling water from 2101M Laboratory sewers	1/31/92
M-17-43B	Submit SAP 2101-M Laboratory Wastewater to EPA/Ecology	1/31/92

Accomplishments for the last 3 months (Continued)

- **Liquid Effluent Treatment & Disposal Facility Project (C-018H) on schedule:**
 - **240 Engineering Report submitted to Ecology**
 - **Completed the Pilot Plant Air permit a month ahead of schedule**
 - **Continued pilot plant activities using cold mock-up feed**
- **200 Area Treated Effluent Disposal System Project W-049H**
 - **240 Engineering Report submitted to Ecology**
 - **Started 200 Area TEDF Definitive Design**

Accomplishments for the last 3 months (Continued)

- **300 Area Treated Effluent Disposal System Project L-045**
 - **Engineering Summary Report submitted to regulators**
 - **Started design for 300 Area Treated Effluent Disposal Facility**

- **Phase II Effluent Project W-252**
 - **183-D Filter Backwash and the 284-E Power Plant Wastewater BAT documents are out for review**

Planned Actions for Next 6 Months

- Submit Ten (10) Sampling and Analysis Plans for EPA/Ecology review

4/30/92	B Plant Cooling Water	M-17-27
4/30/92	242-A Evaporator Cooling Water	M-17-30
4/30/92	242-A Evaporator Steam Condenser	M-17-31
4/30/92	241-A Tank Farm Cooling Water	M-17-32A
4/30/92	244-AR Vault Cooling Water	M-17-33
4/30/92	183-D Filter Backwash Wastewater	M-17-36
4/30/92	284-E Power Plant Wastewater	M-17-37
4/30/92	284-W Power Plant Wastewater	M-17-38A
4/30/92	T Plant Laboratory Wastewater	M-17-42A
4/30/92	400 Area Secondary Cooling Water	M-17-44

- 7/92 Complete construction of B Plant Aqueous Makeup Unit (AMU) upgrades, project W-004 (M-17-04C)
- 7/92 Complete construction of B Plant Environmental Compliance upgrades, project W-010H (M-17-04D)
- 4/92 Provide shut down plan to EPA/Ecology for 300 Area Process Trenches (M-17-06C)
- Submit implementation schedule 30 days after EPA/Ecology approval of the Impact Assessment Methodology (M-17-13A)

Planned Actions for Next 6 Months (Continued)

- 5/92 Submit UO_3/U Plant wastewater reroute feasibility study to EPA/Ecology (M-17-17C)
- 7/92 Submit final report detailing results of 300 Area Process Trench ERA to EPA/Ecology (M-17-06D)
- 7/92 Submit Environmental Assessment update to EPA/Ecology (M-17-06E)
- 6/92 Initiate Pilot Plant testing of 242-A Evap/PUREX waste stream (M-17-14B)
- 6/92 Submit the N-Reactor Effluent NPDES permit modification to EPA/Ecology (M-17-15D)
- 5/92 Complete feasibility study for the UO_3/U Plant wastewater reroute (M-17-17C)
- 9/92 Replace the 242-S Evaporator air sample pump and eliminate the seal water contribution to 242-S Steam Condensate (M-17-18B)
- 6/92 Discontinue discharge of PUREX Plant Steam Condensate to 216-A-30 and 216-A-37-2 Cribs (M-17-22A)

Planned Actions for Next 6 Months (Continued)

- 6/92 Reroute PUREX Plant Cooling Water Effluent to the 216-B-3 pond system VIA the PUREX Chemical Sewer (M-17-23A)**
- 6/92 Complete PUREX reconfiguration and source control to minimize volume and reroute remaining cooling water and steam condensate (M-17-24A)**
- 9/92 Complete definitive design of the Decontamination Laundry Facility, project B-503, and submit to EPA/Ecology (M-17-35A)**
- 6/92 Complete construction of the LERF Basins (WHC)**
- 8/92 Submit revised inventory of disposal sites for Misc. Streams to Ecology (RL)**
- 9/92 Submit plan for Identification/Evaluation of all Misc, Liquid Streams to Ecology (RL)**
- 9/92 Submit Phase II Liquid Effluent 240 Engineering Report to Ecology (RL)**

Milestone Assessment

- **Schedule**
 - **Milestones on schedule (except M-17-14B - see issues)**
- **Technical Scope**
 - **BAT/AKART evaluations in progress and on schedule**

M-17-0 Financial Status through March 1992

FY 1992

	<u>FYTD Budget</u>	<u>FYTD Cost</u>	<u>Spending Variance</u>	<u>Annual Budget</u>
Capital	3,166	4,623	(1,457)	66,999**
Expense	10,548	9,905	643	21,008*
Total	\$13,714K	\$14,528K	\$ (814K)	\$88,007K*

* Does not include \$1900K for acceleration of Phase II Project

** To date approximately \$32M has been allocated in capital commitments against this budget total

Issues

- **Laundry privatization will require TPA interim milestone modification if qualified vendor is found (Elimination of M-17-35 A-D)**
- **Eliminate/rewrite the Initiate Pilot Plant Testing for 242-A Evaporator (M-17-14B) milestone if delisting strategy is approved. Requirement for hot feed will be eliminated**
- **Ecology and EPA need to improve document review turnaround time if TPA schedules are to be met**
- **Public involvement impacts on Milestone M-17-00 activities will be discussed at Project Manager's meeting**

Land Disposal Restrictions

M-26-03 **Cease discharge of 242-A Evaporator
process condensate effluent to
LERF units by December 1994** **On Schedule**

M-26-04 **Remove all hazardous waste residues
from the 242-A Evaporator LERF units
by June 1995** **On Schedule**

**TRI PARTY AGREEMENT
MAJOR MILESTONE MANAGEMENT REVIEW**

**PRIVATIZATION OF HANFORD'S
DECONTAMINATED LAUNDRY SERVICES**

APRIL 22, 1992

PURPOSE OF BRIEFING

- **PROVIDE UPDATE ON THE LAUNDRY PRIVATIZATION EFFORT**
- **DISCUSS WHEN THE DLF's TPA MILESTONES AND THE 216 CONSENT ORDER SHOULD BE DELETED (M-17-35, Interims B-D)**
- **ASSURE ALL PARTIES ARE ON BOARD AND CONCUR WITH THE DLF CHANGE PROCESS**

BACKGROUND

- **RL NOTIFIED THE WDOE AND EPA REGION 10 ON 1/10/92 OF PLANS TO SEEK COMMERCIAL DECONTAMINATION LAUNDRY SERVICES**
- **RL RECEIVED 3 PROPOSALS ON MARCH 6, 1992**
- **EVALUATION OF PROPOSALS IS NEARING COMPLETION - DECISION IS NEAR**
- **DUAL PATH CONTINUES TO PROVIDE INSURANCE**

KEY ISSUES ASSOCIATED WITH THE CHANGES TO THE CONSENT ORDER / TPA MILESTONES

- **DO NOT WANT TO AWARD THE COMMERCIAL
LAUNDRY CONTRACT WITHOUT WDOE/EPA
CONCURRENCE ON THE "CHANGE" PROCESS**

- **NEED TO AWARD THE COMMERCIAL CONTRACT
BEFORE THE CONSENT ORDER AND TPA
MILESTONES ARE FORMALLY DELETED**
 - **MAINTAINS DLF OPTION**

**SUGGESTED APPROACH TO CHANGING THE
TPA MILESTONES AND 216 CONSENT ORDER
FOR THE DLF PROJECT**

- **RECEIVE WDOE AND EPA REGION 10
CONCURRENCE ON THE FOLLOWING PROCESS:**
 - **AWARD THE COMMERCIAL CONTRACT AS SOON
AS POSSIBLE.**
 - **ELIMINATE NEED FOR INTERIM MILESTONES
M-17-35B THROUGH M-17-35D, AS WELL AS
THE 216 PERMIT.**
 - **M-17-34, "CEASE DISCHARGE TO 216-W-LWC
CRIB BY 1/95" WILL REMAIN IN EFFECT**

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Quarterly Briefing
Past Practices Activities

Julie K. Erickson

April 22, 1992

Milestone Description

Milestone M-12-00 requires 15 Operable Unit Work Plans be submitted to EPA and Ecology by June 1992

M-12-00 Submit RI/FS or RFI/CMS Work Plans for 15 Operable Units - June 1992

**M-12-05a Submit rescoped RI/FS or RFI/CMS Work Plans for Operable
to Units, in accordance with the final "Hanford Past Practices
M-12-14a Strategy Document"**

100-HR-1	September 1991	100-KR-1	October 1991
100-HR-3	September 1991	100-KR-4	October 1991
100-DR-1	September 1991	100-FR-1	November 1991
100-BC-1	September 1991	100-FR-3	November 1991
100-BC-5	September 1991	100-NR-1	December 1991
		100-NR-2	December 1991

M-12-15 Submit 200-UP-2 Operable Unit Work Plan (source and groundwater), or an agreed upon alternate Work Plan based on results of the U-Plant Aggregate Area Management Study - June 1992

Accomplishments

Over the past 3 months, comments on 7 rescoped Work Plans have been received from the regulators

- **100-HR-1, 100-HR-3, 100-DR-1, 100-KR-1, and 100-KR-4 Work Plan comments have been submitted by the regulators and are being dispositioned**
- **100-BC-1 and 100-BC-5 Work Plans have been submitted to EPA for public comment**
- **It is anticipated that all Work Plans will reach final approval by September 1992**
- **200-UP-2 Work Plan is currently being drafted per format and context discussed with the regulators**

Planned Actions

- **Resolve comments on 100 Area rescoped Work Plans**
- **Approve eleven 100 Area rescoped Work Plans**

Milestone Assessment

M-12-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	126	281	393	614	747	850	944	1039	1090	1128	1128	1128
FYTD Cost	12	512	574	596	909	966						
Spending Variance	114	-231	-181	18	-162	-116						

Variance Explanation

- Higher costs are due to unanticipated FY 1991 contractor (BOAs) accruals against FY 1992 funds
- Additional costs are due to extensive regulator comments on rescoped Work Plans

Milestone Description

Milestone M-13-00 requires 6 RI/FS or RFI/CMS Work Plans be submitted each year to EPA and Ecology starting in CY 1993

- **An informal meeting was held with the regulators on April 6 to discuss the CY 1993 Work Plans and work scope**

Milestone Description

Milestone M-27-00 requires all Aggregate Area Management Study Reports (AAMSRs) for the 200 Areas be submitted to EPA and Ecology by September 1992

- M-27-00** Submit all AAMSRs for the 200 Area to EPA and Ecology as secondary documents. These documents shall be prepared in accordance with the objectives of the "Hanford Past Practices Strategy" and the outline provided in the "200 AAMS Guidelines," both of which are included in Appendix F - September 1992
- M-27-01** Submit methodology and format for the AAMSRs (to be included as Chapter 1 of each AAMSR) to EPA and Ecology as a secondary document - June 1991
- M-27-02** Submit AAMSR for the 200 Area Waste Management Areas to
M-27-09 (for all source term Operable Units within the waste management areas) - January-August 1992

Milestone M-27-00 (Continued)

M-27-10 **Submit AAMSR for 200 Area Groundwater Aggregate Areas,**
and **including all groundwater impacted by the source term Operable**
M-27-11 **Units - September 1992**

Accomplishments

During the past 3 months, AAMSRs were submitted for the U Plant, Z Plant, and S Plant Aggregate Areas meeting milestones M-27-02, M-27-03, and M-27-04

- **All of the AAMSRs are on schedule**

Planned Actions

- **Submit remaining AAMSRs (one per month) to the regulators for review**

Milestone Assessment

M-27-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	79	402	2535	3537	4435	5401	6542	7255	7898	8297	8583	9325
FYTD Cost	520	1336	1752	2876	3722	4406						
Spending Variance	-441	-934	783	661	713	995						

Variance Explanation

- Contractor costs have not been incurred as soon as planned

Milestone Description

Milestone M-28-00 requires documentation of soils and groundwater backgrounds be submitted to EPA and Ecology by April 1992

- M-28-00 Submit all soils and groundwater background determination documents to EPA and Ecology - April 1992**
- M-28-01 Submit soils background sampling and analysis plan and quality assurance project plan - June 1991**
- M-28-02 Submit background methodology description document for soils and groundwater (secondary document) - July 1991**
- M-28-03 Submit soils study report (primary document) establishing background values for soil at the Hanford Site, and include report in Appendix F - April 1992**
- M-28-04 Submit evaluation report on existing groundwater data (primary document) establishing background values for groundwater at the Hanford Site, and include in Appendix F - April 1992**

Accomplishments

During the past 3 months, background sampling has been initiated

- **All background samples have been analyzed, verified, and validated**
- **Tri-Party Agreement change request to extend submittal date for M-28-03 from February 1992 to April 1992 was approved by the regulators**

Milestone Assessment

M-28-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	68	120	162	323	449	494	530	574	604	630	668	702
FYTD Cost	38	113	202	395	506	762						
Spending Variance	30	7	-40	-72	-57	-268						

Variance Explanation

- Milestone M-28-03 recovery to meet the April 1992 submittal date
- Increased resources are being expended to ensure issuance of site background report by the end of April

Special Topic

Issue

- **Currently in the process of preparing draft Site-Wide Background Reports (M-28-03 for soils and M-28-04 for groundwater) for submittal to the regulators by April 1992. Tri-Party Agreement change request was approved in February by the regulators which extended the submittal date for M-28-03 from February 1992 to April 1992**

Milestone Description

Milestone M-29-00 requires documentation describing the Hanford Risk Assessment Methodology be submitted to EPA and Ecology by March 1992

- M-29-00 Develop and submit documentation to EPA and Ecology describing Hanford Risk Assessment Methodology - March 1992**
- M-29-01 Identify and submit descriptions of codes and models (secondary document) to be used in Risk Assessment - September 1991**
- M-29-02 Submit a plan for development of area wide groundwater models to support risk assessment and to evaluate impacts of changing groundwater flow fields (secondary document) - December 1991**
- M-29-03 Submit Risk Assessment Methodology document (primary document), and include in Appendix F - March 1992**

Accomplishments

Over the past 3 months, the Risk Assessment Team has met several times

- **Description of codes and models to be used in risk assessment was submitted at the end of September 1991**
- **Future bounding time period that should be applied to the risk assessment was resolved at the last Tri-Party Agreement Project Managers meeting**
- **Hanford Site Baseline Risk Assessment Methodology document was submitted on March 31**
- **Milestones M-29-03 and M-29-00 have been completed**

Milestone Assessment

M-29-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	208	576	931	1549	2129	2776	3093	3375	3583	3774	4056	4356
FYTD Cost	488	-16	902	1387	2359	2701						
Spending Variance	-280	592	29	162	-230	75						

Variance Explanation

- **Activities supporting M-29-00 are complete except for document review**
- **Delay in billings from contractors**

Milestone Description

Milestone M-30-00 requires the integrated general studies of the 100 Areas be completed by September 1993

- M-30-00 Complete integrated general investigations and studies for the 100 Area - September 1993**

- M-30-01 Submit a report (secondary document) to EPA and Ecology evaluating the impact to the Columbia River from contaminated springs and seeps, as described in the Operable Unit Work Plans listed in M-30-03 - February 1992**

- M-30-02 Submit a plan (primary document) to EPA and Ecology to determine cumulative health and environmental impacts to the Columbia River, incorporating results obtained under M-30-01 - May 1992**

Milestone M-30-00 (Continued)

- M-30-03** Complete all non-intrusive field work as identified in draft Work Plans for the following Operable Units: 100-HR-1, 100-HR-3, 100-DR-1, 100-BC-1, 100-BC-5, 100-KR-1, 100-KR-4, 100-NR-1, 100-NR-3, and 100-FR-1 - September 1992
- M-30-04** Submit a report (secondary document) to EPA and Ecology evaluating the interaction of the Columbia River and the unconfined aquifer for aquifer hydraulic parameters - September 1992
- M-30-05** Install all field instrumentation and initiate monitoring activities necessary to perform long term evaluation of Columbia River and unconfined aquifer interaction, in accordance with the tasks defined in the Operable Unit Work Plan listed in M-30-03 - September 1993

Accomplishment

Over the past 3 months, the general studies have been initiated

- **The Springs and Seeps Sampling Report was completed and issued in February 1992**
- **Non-intrusive activities continue on schedule**
- **Plan for Cumulative Health and Environmental Impacts to the Columbia River is on schedule**
- **Surface radiation surveys for 100-KR-4 and 100-HR-3 are complete**
- **Shoreline surveys continue on schedule**
- **Two river recorders and nine well transducers have been installed**
- **Columbia River Data Compilation Report has been distributed**

Milestone Assessment

M-30-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	381	763	1125	1434	1792	2128	2440	2761	3109	3408	3761	4253
FYTD Cost	220	452	756	1100	1470	1919						
Spending Variance	161	311	369	334	322	209						

Variance Explanation

- Favorable cost variances are due to delayed start of field activities, i.e., cultural resource surveys, installation of data loggers/river stage recorders

Milestone Description

Milestone M-15-00 requires RI/FSs for all Operable Units to be completed by September 2005

- M-15-00 Complete the RI/FS (or RFI/CMS) process for all Operable Units - September 2005**
- M-15-01b/c Submit RI Phase 2 and FS Phase 3 reports for 1100-EM-1 Operable Unit to EPA and Ecology - December 1992**
- M-15-02a Submit FS Phase 1 & 2 report for 200-BP-1 to EPA and Ecology - May 1993**
- M-15-02b Submit RI Phase 2 report for 200-BP-1 to EPA and Ecology - April 1994**
- M-15-02c Submit FS Phase 3 report for 200-BP-1 to EPA and Ecology - March 1995**
- M-15-03a Submit FS Phase 1 & 2 report for 300-FF-1 to EPA and Ecology - September 1992**

Milestone M-15-00 (Continued)

- M-15-03b Submit RI Phase 2 report for 300-FF-1 to EPA and Ecology -
December 1993
- M-15-03c Submit FS Phase 3 report for 300-FF-1 to EPA and Ecology -
August 1994
- M-15-04a Submit FS Phase 1 & 2 report for 300-FF-5 to EPA and Ecology -
July 1993
- M-15-04b Submit RI Phase 2 report for 300-FF-5 to EPA and Ecology -
August 1994
- M-15-04c Submit FS Phase 3 report for 300-FF-5 to EPA and Ecology -
June 1995

Accomplishments

Significant RI/FS activities were accomplished during the past 3 months

1100 Area

- **Continued informal resolution of risk assessment issues**
- **Completed 1100-EM-1 RI Phase 2 field activities (samples currently being analyzed)**
- **Initiated risk assessment/remedial action objectives**
- **Initiated FS Phase 3 screening**

300 Area

- **2 pump test wells were constructed and aquifer tests were conducted**
- **Work commenced on preparation of the RI Phase 1 report (M-15-03-T1) and FS Phase 1 and 2 reports (M-15-03A)**

Accomplishments (Continued)

200 Area

- **5 vadose zone boreholes were completed through cribs for 200-BP-1**
- **1 Phase 1B groundwater well was initiated at 200-BP-1**

100 Area

- **Draft 100 Area FS Phase 1 and 2 report has been submitted for internal WHC review**
- **100-DR Area vadose zone holes were completed ahead of schedule**
- **100-HR, 100-DR, and 100-BC Area groundwater monitoring wells were completed**
- **100-HR and 100-BC Area vadose zone holes were completed ahead of schedule**

Accomplishments (Continued)

General

- **A comparative analysis report on sonic drilling versus cable tooling was prepared. Data confirmed that the sonic drilling method is both cost and schedule effective**
- **Mobile screening laboratory is completing a second round of "Best and Final." Contract award is expected in May 1992**
- **A Request for Proposals (RFP) was issued soliciting vendors to conduct a soil washing treatability test in the 300 Area**
- **4 Expedited Response Action (ERA) planning proposals were submitted to the regulators**

Planned Actions

Characterization activities will continue during the next 6 months

1100 Area

- **Prepare draft FS Phase 3 Report and draft proposed plan**
- **Perform Risk Assessment**
- **Complete vadose and groundwater conceptual models**
- **Continue 1100-EM-1 RI/FS coordination activities with Siemens Nuclear Power Corp**

300 Area

- **RI Phase 1 and FS Phase 1 and 2 reports will be issued to the regulators in September for 300-FF-1**
- **Field activities at 300-FF-5 will continue with the drilling of a geologic characterization borehole and continued quarterly groundwater sampling**

Planned Actions (Continued)

200 Area

- **Drilling and sampling activities will continue in the cribs at 200-BP-1, and will be completed in June**
- **Groundwater sampling will continue in the 200 Areas**
- **Non-intrusive activities to support the 200 Area AAMS will continue**

100 Area

- **Non-intrusive activities will continue in the 100 Area**
- **A change request has been submitted to RL for drilling groundwater wells and vadose zone boreholes for 100-K, 100-N, and 100-F Area operable units**
- **Analyze samples/validate data and initiate data evaluation**

Milestone Assessment

M-15-00 -- Variance Explanation/Status

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD												
Budget	4410	10049	17332	24158	33704	42949	49422	55650	62195	67259	73485	87829
FYTD												
Cost	3357	8677	15455	22483	30900	39999						
Spending												
Variance	1053	1372	1877	1675	2804	2950						

Variance Explanation

- Underruns are being experienced in the 100 Areas due to faster than expected completion of groundwater well and vadose zone borehole drilling
- Accelerated drilling schedules are due to lower than anticipated rad/haz levels and the favorable winter drilling conditions

SPECIAL TOPIC - 300-FF-1 RI Schedule Recovery

A proposal was presented to the regulators to reduce cost of characterization, and accelerate the ROD, and recover schedule

- **The acceptance of test pits to replace boreholes has resulted in significant schedule cost and recovery reduction**
- **Additional proposals include:**
 - **Reducing the number of sample locations through an iterative (feedback loop) approach is being developed and discussed**
 - **18 change requests have been approved by the regulators that have deferred scope to Phase 2**
 - **Initiate a CERCLA treatability test ahead of the current schedule**
 - **Funding has been provided and an RFP issued for a contractor to conduct the treatability test**
 - **Perform an ERA on the landfills**
 - **The regulators have rejected the proposal and proposed the site be included in the IRM**
 - **Initiate planning for IRM to accelerate ROD**
 - **A conceptual design for the IRM was developed and included in budget requests for FY 1993 and beyond**

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*copy coverage for ETS actions.

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