

Meeting Minutes

August 22nd, 2000

0053924

Office of River Protection (ORP) TPA Quarterly Milestone Review

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement/TPA)

Approval: Michael A. Wilson
 Michael A. Wilson (B5-18)
 Chairperson
 Ecology IAMIT Representative

Date: 11/6/00

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Approval: William W. (Wade) Ballard
 William W. (Wade) Ballard (A5-12)
 RL IAMIT Representative

Date: 10/24/00

EDMC

Approval: Douglas R. Sherwood
 Douglas R. Sherwood (B5-01)
 EPA IAMIT Representative

Date: 11/14/00

Minutes Prepared by:

Approval: Deborah F. Iwatate
 Deborah F. Iwatate (A1-14)
 Fluor Hanford, Inc.

Date: 10-16-00

DISTRIBUTION

Abdul, W.	ORP	H6-60	Royack, M. J.	ORP	H6-60
Ballard, W.	RL	A5-12 *	Sherwood, D. R.	EPA	B5-01 *
Cusack, L.	Ecology	B5-18 *	Sidpara, A. B.	ORP	H6-60 *
Dahl, S.	Ecology	B5-18 *	Singleton, D.	Ecology	B5-18
DeWitt, K. E.	Ecology	B5-18	Skinnarland, E. R.	Ecology	B5-18
Faulk, D. A.	EPA	B5-01	Sobczyk	Nez Pierce	
Haass, C. C.	CHG	H6-19	Stanley, R.	Ecology	Lacey *
Hertzel, J. S.	FH	A1-14 *	Stone, A. B.	Ecology	B5-18
Iwatate, D. F.	FH	A1-14 *	Taylor, W. J.	ORP	H6-60 *
Miera, F. C..	RL	A7-75	Valero, A.	Ecology	B5-18
Morrison R. D.	FH	A1-14 *	Williams, B. L.	ORP	H6-60
Owens, M. M.	ORP	H6-60	Wilson, M. A.	Ecology	B5-18 *
Piippo, R. E.	FH	A1-14 *	Wilson, R.	Ecology	B5-18
Riess, M.	CHG	A1-14 *	Yerxa, J. K.	RL	A5-15 *
Rodriguez, H. M.	RL	A5-15 *			
			Administrative Record	EDMC	H6-08 *

* w/Attachments

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General

- Carolyn Haass provided a summary of the CHG reorganization and staff changes
 - * A phased reorganization started in 5/00. Went to a project oriented management style (e.g., an SST manager who would be over anything that had to do with SSTs... whether a task has to do with retrieval or vadose zone, if it had to do with the SSTs then it would be under the SST manager). A project delivery-oriented system. Similar to what has been worked at Rocky Flats.
 - * Fran Delozier: President/CEO. Allen Parker: Executive Vice President/Deputy Manager.
 - * Bill Bane(?): Chief Operations Officer of the tank farms, and Executive Vice President. Bill has three main projects under his direction: SST Interim Closure, DST and Waste Feed Delivery Projects, and Nuclear Operations Services Projects. The people who work under Bill Bane, for SSTs, the acting Project Manager is Rick Raymond (under that position is Interim Stabilization, Retrieval, Vadose Zone, and other activities)
 - * The Tank Waste Treatment Operations Project is the scope of work CHG obtained from the 6/28 letter as an operations contract will be run by Mike Payne (Engineering, Operations, Permitting, Nuclear Licensing, Project Controls, and others.
 - * Because CHG is doing the bridge contract, and since Bechtel didn't want to do the interim design activity, they formed another group called Tank Waste Treatment Interim Design that will be headed by Chuck Hall (former Chief Engineer for Lockheed Martin, Inc.) and his deputy will be Bob Popielarczyk.
 - * DSTs and Waste Feed Delivery will be under Dale Allen.
 - * Nuclear Operations Services Project will be under Bill Ross.
 - * Chief Engineer is Mark Hastings.
 - * The reorganization also defined the support/service organizations, including an ES&HQ group, Communications, Chief Council (and additional attorneys).
 - * A new QA manager has been brought onboard from Raytheon.
 - * Hired a new ESHQ Senior Vice President who came from Stone & Webster up at Energy Northwest.
 - * Feel that this new organization/structure will increase efficiency and improve communications.
- Carolyn Haass [Carolyn C Haass@rl.gov](mailto:Carolyn_C_Haass@rl.gov) (or Mark Riess [Mark J Riess@rl.gov](mailto:Mark_J_Riess@rl.gov)) can provide a copy of the new organization chart(s). The organization charts are also available on the Hanford Intranet (under, human resources / organizational charts).

Note: The Organization Chart information for CH2M Hill can be viewed through the Hanford Intranet at the following URL: <http://apweb02.rl.gov/chghr/index.cfm?PageNum=6> Once you reach this location you will find a listing of the CH2M Hill Organization Charts and can select the one of interest. You will then get an on-screen dialog box that requires entry of your User Name, Password, and Domain. Fill in these fields with your Hanford ID, Hanford Network logon password, and use the word "Hanford" for the domain entry. Right click on an organization and save the MS PowerPoint file to your computer for printing.

FY-2000 Cost and Schedule Performance Overview

Hector Rodriguez/Mark Riess/Suzanne Dahl

- Performance overview (Attachment 1) (presentation prepared by P. Moorehouse). Questions regarding the summary should be directed to PM (full information in Attachment 2/Pg 4).
- Noted that there were no significant changes in this information from what was presented in the Project Managers Meeting (last week), however, the M-45 milestones were [still] under discussion and in a state of change.

- Milestones M-45-10A-T1 and M-51-04B-T1 are pending deletion.

Interim Stabilization (Consent Decree)

Mike Royack/Wahed Abdul/Kevin DeWitt

- Attachment 2/Pg 10
- All milestones due for this year have been met ahead of schedule. Five tanks have been declared "interim stabilized".
- Pumping is ongoing for tanks U-102 and U-109. Pumping of tank U-106 is expected to start very soon, even in light of many difficulties.
- Tank U-105 has waste/liquid still left in the tank (equipment breakdown caused pumping to stop) and is being evaluated to determine whether it meets the consent decree criteria in its present state.
- Detailed information was provided about the delays that have occurred while pumping tanks A-101 and AX-101 (plugging difficulties) - 20% (808K gallons) has been pumped out so far.
- Action on tank U-106 was accelerated [to help meet the overall flow requirement] and to offset difficulties experienced with pumping tanks U-103 and U-105. Possibility that they may not be able to meet the 38% [reduction in volume of organic complexant] milestone (9/30/00)... don't know for sure yet.
- MW - Question about cause(s) of difficulties with pumping U-106. Pumping problems related to such things as the viscosity of the liquids and hardware difficulties.
- Ecology can expect a letter on this (within the next couple of weeks) regarding these problems, meeting the flow/volume requirements as planned, and asking for Ecology advice.
- For SX farm - when piping failures were noted they noticed that historic information showed a high amount of failure. Failures [in the past] were related to pressure test failures, corrosion, and hardware. This observation prompted them to consider building above-ground piping to alleviate pipe break/leak risks and impacts to the requirements and schedule. They are planning to accelerate the U-106 pumping and using above-ground piping.
- TV - Comment/question about the pump problems. Informed the attendees that everyone working on this effort is aware of the sensitivity/concerns regarding invoking the [equipment] failure clause over and over again. In this instance, the major cause most likely is a pump selection problem.

M-46-00 Double-Shell Tank Space Evaluation

Mike Royack/ Russ Harwood/Tony Valero

- Draft document has been sent over to Ecology. Comments are due 8/23/00.
- TV - Noted that he will be meeting with MR and RH later in the week [to go over the Ecology comments/input].
- No significant issues or comments

DST Integrity Assessment Program

Mike Royack/Russ Harwood/Tony Valero

- Note: Roger Stanley participated in this discussion via speaker phone
- MR – General status was presented (provided in Attachment 2)
- TV - Question to confirm that the deliverables are ON TRACK... answered affirmative. Ecology is expecting to see the deliverables by mid-September.

M-44-00 Tank Waste Characterization

Mike Royack /Wen-Shou Liou /Debra Singleton

- Presented general status/review (Attachment 2)
- Noted that the FY2001 WIRD was delivered ahead of schedule (8/13/00). The Draft FY2001 WIRD was reviewed by Ecology and all comments (from Ecology) have been incorporated into the Final FY2001 WIRD, submitted on 8/13/00.
- The next PCB DQO development meeting is scheduled for 8/30/00
- Ami S - Reminded that every other Friday there is a program review (there is one this Friday 8/25/00), and welcomed Ecology and EPA to attend.
- AS – Currently in the process of finalizing the Agreement in Principle for the PCB issue. There will be two sessions regarding PCBs.

M-40-00 Safety Issue Resolution

J. Voice/Dennis Irby/Kevin DeWitt

- 101-SY observation period completed on July 14th, 2000. Have now logged approximately 140 days without running the mixer pump. Observing a steady state gas release condition; i.e., equilibrium for release and generation of gas in the tank.
- There was general agreement from Tony Valero [regarding the progress], especially compared to circumstances as they were a year ago.
- CHG is currently putting together the technical closure document for SY-101 and re-evaluating the flammable gas info from SY-101 and other salt well pumping actions
- TV – Questioned whether DOE is still looking for the closure USQ report in September? Answer was for September/October timeframe and possibly that date might be beat.

M-45-00 Single-Shell Tank Closure

Steve Wiegman/Bob Lober/Suzanne Dahl

- **H. Rodriguez** provided presentation for Bob Lober. The following information (sent in by R. Lober) was read into the record:
 - ORP will meet the current milestones associated with sequencing (M-45-02) and LDMM (M-45-09).
 - ORP will not meet the SST milestones commencing 12/31/00 (M-45-08A).
 - Ecology and DOE are currently in discussions regarding the scopes and schedules for near-term milestones consistent with Ecology Final Determination.

Scopes under negotiation are based on:

- Technology development and deployment of low volume retrieval technologies and leak detection capabilities applicable to salt cake and sludge/hard-heel in C-104 and S-112, respectively
- Risk reduction efforts which moves high risk, sound SSTs to available DST space projected to be 2M gallons between FY2000-2006 (S-102).
- The closure work plan is being updated based upon results of demonstrations and vadose zone investigations.
 - * DOE-HQ staff are being briefed this week on content, strategy and costs
 - * Scope costs for items currently under discussion are being worked in parallel with flat budget baseline activities of \$382M, and are consistent with \$35M assumption for SST activities through 2008
 - * DOE and Ecology will brief EPA [staff] on status and content of discussions (HR will schedule this briefing)
- HR and Roger Stanley/Ecology are working together on a strategy for closure. Both sides expect that this obligation will be met by the end of the month.
- SD - Mentioned that M-45-08 is coming due and will NOT be met (this is the LDMM system design and demo milestone and cannot be met in the [ongoing M-45] milestone action). This milestone will be replaced with another milestone(s). If the negotiations do not conclude, as planned, then this milestone will still be left on the books... to be met by December 2000.
- SD - There are 10 tanks listed to be retrieved (noted that these tanks are essentially "empty", and low curie content tanks) and will, instead, go after (3) higher risk and higher volume tanks first. (C-104, for example has 89kg of Pu.) This will provide greater risk reduction (provided some additional facts about this risk reduction).
- CH - Noted the fact that the transfer of this much waste from a tank would be significant in comparison to anything that has been done before at Hanford (or any other DOE sites).
- CH - Also noted that, just because the 12/00 LDMM milestone will not be met, this does not mean that the design is not proceeding. Currently at 90% Preliminary Design for C-104 and the contract is in place for Detailed Design to proceed. Are incorporating lessons learned from all the other retrieval projects: C-106, 211/Mixer Pump, and trying to reduce the "process" of retrieval. This is being done even in light of the (low) \$35M funding that is available. Ecology has been involved with this effort all the way through.
- SD - Reiterated that everyone is on the same page regarding the strategy and plan for these retrieval actions.
- HR - Noted that ORP has met with H. Boston about these efforts. He understands the program and where it is striving to go. DOE-HQ folks are also involved.
- MW - Questioned who from HQ was involved - summary listing of HQ staff was provided by HR.

M-45-50 & M-45-60 Single-Shell Tank Corrective Action

Steve Wiegman/Rob Yasek/Stan Leja

- H. Rodriguez presented for Rob Yasek, (Attachment 2/pg 20)
- Milestone M-45-98-03 has not been completed and noted that Jon Yerxa is working a change request/package for that milestone at this time.

- SD - Noted that Roger Stanley [and her] had met with R. Yasek last week about this item and that one of the major considerations will be working through the public comment aspects. Request from Suzanne that the milestone status should be brought up at the IAMIT this afternoon.
- Carolyn Haass - noted that this is acknowledged as a [CHG] commitment to the milestone and effort and that the problem is viewed more as an administrative one.
- CH - There have been successful borehole completions in the past couple of weeks. 16- 17 samples were obtained. Slant drilling (30 degrees from vertical) has been conducted. Under SX-108, in one of the hottest zones of soil around that tank, and a tank that has one of the biggest leakage indications. The whole program has been very successful thus far and is ahead of the milestone schedule/due date, and they have met the Performance Incentive for that action.
- RCRA wells are "up and going". They will be successful in completing all the ones that are ORP responsibility in this area (7 wells). Will meet the spectral gamma logging goals/milestone (due 9/00) also.
- Vadose zone program is going well for ORP. All information will be integrated with issues (estimates there are about 25 issues) of LDMM and closure and will be integrated with the discussions that are ongoing for the retrieval and closure milestones.

M-43-00 Tank Farm Upgrades

Bill Taylor/Bobby Williams/Dick Heggen

- BW - The program is doing much better than noted in the last report. Construction is back on track at this time and they are making up lost days/schedule.
- BT - Noted that there was a PA on this work and provided additional information
- BW - They are working on developing a better/cheaper pit repair approach
- DH - Provided input about definition on meeting the milestone. Noted that M-43 lacks good definition and that, if not corrected, this could result in arguments or disputes when the milestone comes due. Correlation with milestone M-47 should also be looked into.

M-47-00 Tank Waste Treatment, Storage and Disposal Facilities

Joe Cruz/Suzanne Dahl

- Handout (supplement to the Attachment 2). J. Cruz not available. Presentation provided by **H. Rodriguez**.
- Current baseline, and the upcoming change (\$1B baseline), should support the M-47 milestones as defined in the final determination

* No major changes in approach (still LAW first, tie in to WTP from AP Farm, etc..)

* \$1B baseline is a lower schedule confidence (less float & contingency) baseline

- If necessary, M-47-01, -02, -03, -03A, -04, -05, and -05A may need to be adjusted to be consistent with the M-47-00 ("*The Parties will revise or confirm due dates for milestones M-47-01 to -05A within six months of Authorization to Proceed*")

* Will be able to reconcile once "\$1B" baseline change request is incorporated

* Any needed adjustments will be incorporated prior to FY-01 MYWP approval

- SD - Noted that this is obviously all dependent on the \$1B funding getting to ORP. Ecology needs to continue working with Bill Taylor and Joe Cruz to: a) develop an alternate path in case it is, and b) ensure that key systems are taken care of and incorporated.
- HR - Stated that he is on top of that need and will follow up with BT.
- CH - Provided information about the major CHG reorganization and how they are going to conduct business. They are implementing a concept called a, "Product Delivery System." New leads have been established - new points of contact that should be known and understood by the regulators to achieve good subject/action alignment. (See General information, above)

M-62-00 Complete Pretreatment Processing and Vitrification of Tank Wastes Bill Taylor/Suzanne Dahl

- Roger Stanley participated via speaker phone
- Transition from BNFL is proceeding as planned. By next Monday all information required by contractual arrangement will be turned over to CHG in a very controlled and disciplined way - both hard copy (approx. 420 boxes of materials) and electronic information... target completion for transfers this coming Friday 8/24. Includes all work related to research and technology. All property logistics have been transitioning smoothly; also, CHG folks moved over smoothly [from BNFL support]. BNFL transition plan... and CHG supplemental plan have been submitted.
- "First Produced" information and Intellectual Property is being taken care of as part of the termination process. The buy-out of proprietary and intellectual property is planned to conclude by 9/15/00.
- MW - Question about number of staff transferred from BNFL. Answered... about 450
- BT - The number transferred was a lot larger than what was anticipated (which was about 182 originally).
- The Bechtel folks (who were doing the design) were among the "most desired"... however, they did NOT come across.
- CH - A Stone & Webster team of about 50 people has been brought in (to offset the loss of people who stayed with Bechtel) and will have key management roles.
- MW - Asked question about the nature of the work that is being done between now and January or July, of next year.
- BT - The nature of the work is to develop a technical baseline: accrue/assemble all of the information that they have gotten from BNFL and develop a current baseline from that information. Also, they want to advance the design, and do construction planning because without that planning there can be no immediate launch of the follow on contractor. The RFP very specifically states that the follow on contractor must be awarded by January 15, 2001, [and this will have to be done] with almost no transition period. This is believed possible because the people who were drawn from BNFL are anticipated to be the ones who will go with the new contractor. Acknowledged that this involves a little wishful thinking, but it is still possible, and would minimize the impacts.
- SD - Reminded that this also assumes that the funding will be in place. Commented that the draft RFP says one thing and the current actions indicate a slightly different approach.

- BT - The issues that were laid on the table include those related to Standard 7 and whether the regulatory unit is to be part of that, or not a part of that (expected some resolution during the ongoing/8-22-00 meetings), whether permitting is done by the incoming Architect Engineer designer/builder or by the CHG/in place staff after the interim period, and about 15 other issues. Harry Boston is taking a personal interest in the resolution of these issues and is spending considerable time in the meetings... giving hands-on direction. All of this must come to closure by the end of this week (8/25/00) in order to get the RFP on the street on schedule.
- SD - What kind of design advancement activities are/will be going on between now and 1/15/01 before the new contractor is in place?
- BT - We are trying to maintain the Process Flow Sheet. We don't want to do anything to the design that would impact the PFS. Pretreatment is going to be the same. Optimization of the plant is another area that they are looking into, including ways to make it more affordable, but this also must NOT impact the PFS. Harry's focus has been on maintaining the schedule.
- Question about the negotiation and sale of intellectual property.
- By 9/1/00 BNFL will have a list prepared of these items (those things that they consider to be proprietary and of intellectual property value) including their price tag. DOE will work through the needed items and decide/disposition them by 9/15/00. Prices will be negotiated. DOE does not want to purchase these items piecemeal... purchase will be with an overall, lump sum price/charge. 9/15/00 only BEGINS the negotiation of purchase for these items, and it will continue beyond that date.
- These negotiations with BNFL do not stop the other design work from going forward [at the same time]. DOE has already paid BNFL \$100M dollars for the work performed to date (up to and including the B1 phase effort). They will be paid another \$100M upon completion of the ongoing/remaining work that is due in August/September. DOE will take a week to review the new/completed information at that time and then cut another check for \$100M to close. That will still leave sufficient funds in arrears for DOE to negotiate on continuing items/issues.
- BT - Noted that DOE does have a termination contracting officer on board (Ralph Holland, from the DOE Ohio field office). Ralph is aware/briefed on all of the issues that are on the table and will be in on all the meetings/discussions.
- M-62-05 Authorization to Proceed, noted that the salt well pumping consent decree is being modified to accommodate content of the Consent Decree.
- RS - Question for BT to confirm the date for start of construction per current planning... response that this was for December 2001.
- SD - What is the reality/feeling about being able to make the start of construction date for next December 2001?
- BT - There must be no changes to the design/process that can impact the process flow sheet, and/or ANY changes made without permission from DOE. The project needs to make a determination if we insist upon no change to the construction start date, and hold to that, then we will have to go into a best test state project and go into construction with design being produced just in advance of doing the actual work. This is similar to the way that the SNF project is being handled now. This approach is probably the least desirable way to do things, [but it is necessary to ensure success].
- SD - Concerned that the contractor will be brought on and then there will be a several month delay while there are negotiations/meetings about the work to be done, by who, etc..
- BT - Discussed how the settlement would be handled with BNFL. \$100M provided... additional \$100M after the next data dump. And substantial funds still held back while other work is discussed.

- RS - Ecology (Roger Stanley) went over their comments on M-62-01 (Semi-Annual Project Compliance Report) (handout/table of the assessment was provided - Attachment 3). Mentioned that the review was also between the Attorney General's office and Ecology. Both [the AG and Ecology] felt that DOE had not met the requirements of the milestone. Summarized the importance of the document to both Ecology/EPA and to DOE and went through the submittal giving all of the concerns (Attachment 3).
- RS - Requested that the info be provided to H. Boston so that he knows we have a problem here. Ecology will be taking an action on this milestone but hasn't determined what that action will be to get this straightened out.
- HR - Pointed out that the milestone was among those that is under appeal/pending litigation. (There was no immediate response or comment)

M-90-00 Complete the Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW

Bill Taylor/Phil LaMont/Suzanne Dahl

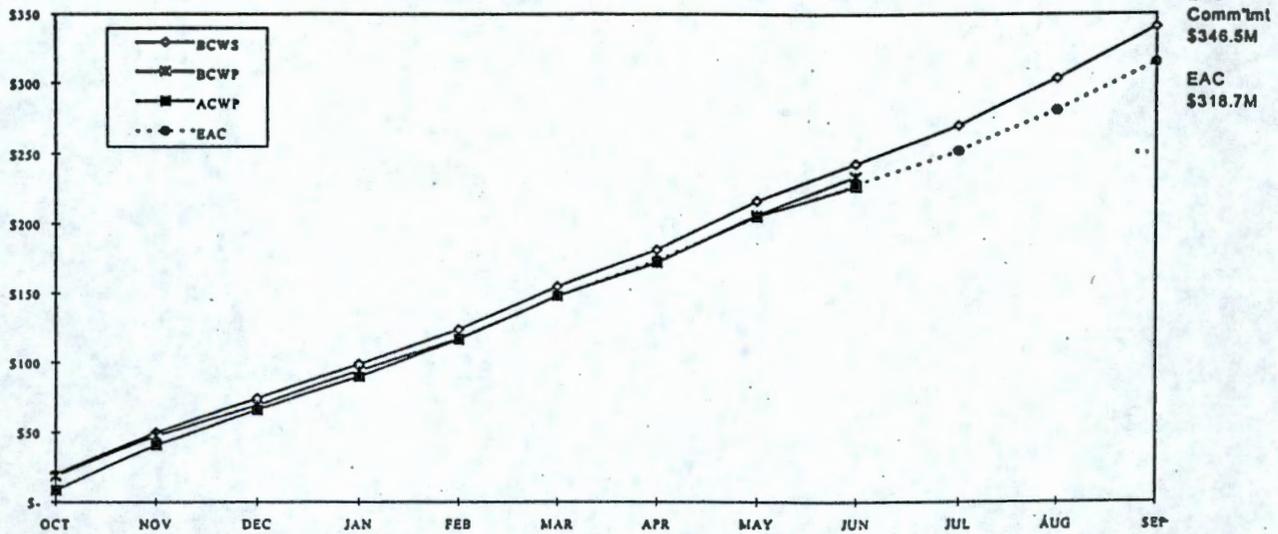
- Attachment 2/Pg 24
- Presentation also included a discussion of M-20 milestones (Canister Storage Facility and ILAW Disposal Facility Part B Permit)
- M-90-09-T (Complete ILAW Disposal Facility Detailed Design 3/03) There is currently about a 3-month disconnect but they foresee no reason the time will not be made up to get back on track. The baseline schedules and cost information on the \$1B level funding is expected in 2004 and is planned to be applied in order to makeup the lag.
- M-90-10 (Initiate Hot Operations of ILAW Disposal Facility 1/07 [in FD]) There is currently a 6-month disconnect (to 6/07) and ORP is considering this milestone to be a challenge to bring back on track. Not considered a significant problem though.
- M-90-11 (Complete Canister Storage Facility Construction 2-07 [in FD]) Currently in a 16-month disconnect (to 6-08). This is a significant delta and will have to be addressed when the final MYWPs are in place. They did go through project validation (7/25) with no negative outcomes - good news: project has been validated, bad news - there is now a 16-month schedule disconnect.
- M-20-57 (ILAW Facility RCRA Part B, 8-02). Will be meeting 8/02, however that will be for an interim permit, so there may be a problem for this item since that would entail start of construction under an interim status.
- SD - Led some discussion regarding the implications and possibilities of this disconnect. For example, whether Ecology would want to grant a start of construction under interim status or not.

ATTENDEES

**Tri-Party Agreement Milestone Review
August 22, 2000**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
Deborah Iwatake	FH-TPA	A1-14	X
JEFF HERTZEL	FH-TPA	A1-14	
Hector M. Rodriguez	DOE-ORL-ORP	A5-15	X
Stan Sobczyk	Nez Perce ERUM		
Deborah Singleton	Ecology		
KEO	Ecology		
Mig Owens	ORP	H6-60	
Mark Riess	CHG		X
Wahed Abdul	DOE-ORP		
Michael J. Rogack	DOE-ORP	H6-60	
Dennis Faulkner	EPA	B5-01	
Wade Ballgud	DOE-RL		
MIKE WILSON	ECOLOG		-
BOB Wilson	ECOLOG		
LAURA COUSACK	ecology		X
Tony Valero	Ecology		
CAROLYN HAASS	CHG		
Felix Miera	DOE-RL		
Ann Sidpan	DOE-ORP		
Suzanne Dahl	Ecology		X
Bob Williams	DOE-ORP		
BILL TAYLOR	DOE-ORP	H6-60	X
Em Skinnard	Ecology		

FY 2000 COST/SCHEDULE PERFORMANCE
 CH2M HILL HANFORD GROUP ONLY - ALL FUND TYPES
 DOLLARS IN MILLIONS
 Cumulative to Date Status



EAC
Comm'tmt
\$346.5M

EAC
\$318.7M

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	20.2	50.1	74.0	98.8	123.5	154.8	181.3	216.1	243.2	270.1	303.3	340.5
BCWP	18.7	47.7	69.0	94.4	117.1	147.7	171.7	206.2	234.1			
ACWP	8.5	40.9	65.7	89.9	116.1	148.1	172.3	204.6	226.8			
SV	(1.5)	(2.4)	(5.0)	(4.4)	(6.4)	(7.1)	(9.6)	(9.9)	(9.1)			
CV	10.2	6.8	3.3	4.5	1.0	(0.4)	(0.6)	1.6	7.3			
SV%	(7.4%)	(4.9%)	(6.8%)	(4.5%)	(5.2%)	(4.5%)	(5.3%)	(4.6%)	(3.7%)			
CV%	54.7%	14.0%	4.7%	4.7%	.8%	(.2%)	(.4%)	.8%	3.1%			

COST/SCHEDULE PERFORMANCE - ALL FUND TYPES
 CH2M HILL ONLY
 (Dollars in Millions)

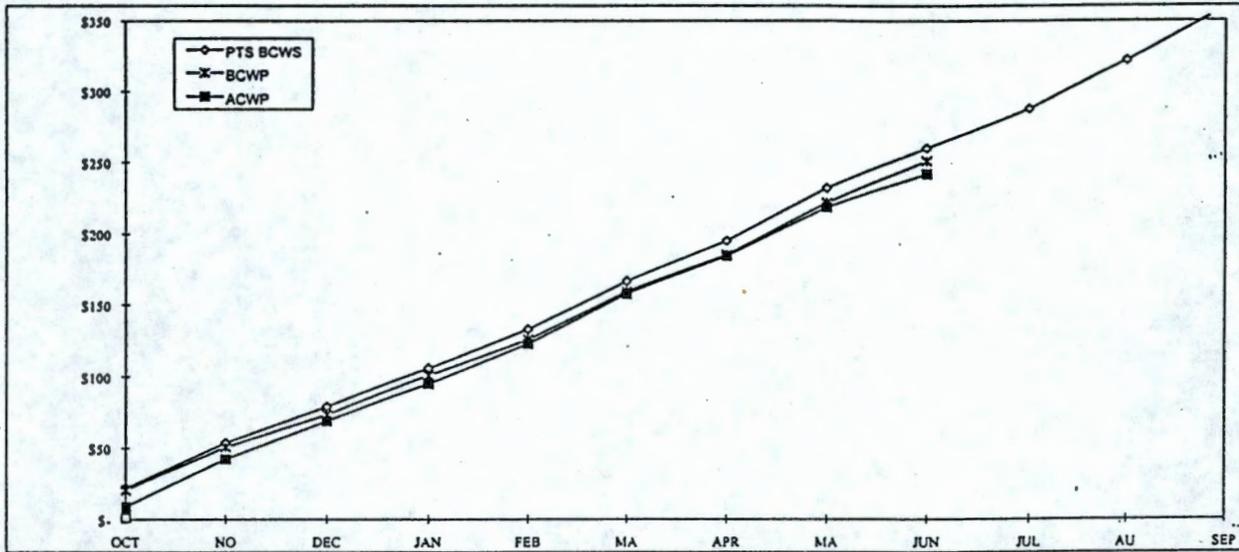
PBS / TITLE	FISCAL YEAR TO DATE								ANNUAL DATA		
	BUDGET COST		ACTUAL COST	VARIANCE				CURRENT BAC	EAC COMMITMENT (FUNDS)	JUNE EAC (FYSF)	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	SCHED % ¹	COST	COST % ¹				
TW01 CHARACTERIZATION	24.6	24.3	21.7	(0.3)	(1.2) %	2.6	10.6 %	32.3	28.9	29.6	
TW02 SAFETY	18.4	16.2	14.9	(0.2)	(1.7) %	1.3	8.1 %	23.6	22.7	20.1	
TW03 TANK FARM OPS	96.7	91.9	96.0	(4.8)	(5.0) %	(4.1)	(4.4) %	134.8	133.1	134.7	
W-314 - TF Rest'n - LI	16.0	13.5	12.3	(2.5)	(15.7) %	1.2	6.6 %	23.8	21.3	20.4	
TOTAL OPS	112.7	105.4	108.3	(7.3)	(6.5) %	(2.9)	(2.8) %	158.6	154.4	155.1	
TW04 RETRIEVAL	36.4	35.7	35.4	(0.7)	(1.8) %	0.3	1.0 %	49.3	49.4	49.1	
W-211 - Inlt Tank Ret'vl-LI	3.3	3.7	3.4	0.4	13.0 %	0.3	9.9 %	4.8	14.9	4.7	
TOTAL RETRIEVAL	39.7	39.4	38.8	(0.3)	(0.6) %	0.6	1.9 %	54.1	64.3	53.8	
TW05 PROCESS WASTE SUPPO	1.1	1.1	0.7	0.0	0.4 %	0.4	32.3 %	1.4	1.1	1.1	
TW08 PRIVAT'ZN INFRASTRUCT	2.1	2.1	1.1	0.0	2.3 %	1.0	48.0 %	2.8	2.0	2.0	
W-519 - Priv Infra Spt -LI	8.7	8.9	6.6	0.2	2.3 %	2.3	25.2 %	15.8	20.2	9.3	
TOTAL INFRASTRUCTURE	10.8	11.0	7.7	0.2	2.3 %	3.3	29.6 %	18.6	22.2	11.3	
TW09 IMMOBILIZED WASTE	6.3	6.3	5.2	0.0	(0.4) %	1.1	17.0 %	8.6	7.7	7.6	
TW10 MANAGEMENT SUPPORT	31.6	30.4	29.5	(1.2)	(3.9) %	0.9	2.9 %	43.3	41.5	40.2	
RPP RESERVE/CARRYOVE	0.0	0.0	0.0	0.0	0.0 %	0.0	0.0 %	0.0	3.7	0.0	
TOTAL EXPENSE/CENR	215.2	208.0	204.5	(7.2)	(3.4) %	3.5	1.7 %	296.1	290.1	284.4	
TOTAL LINE ITEM	28.0	28.1	22.3	(1.9)	(8.7) %	3.8	14.5 %	44.4	56.4	34.4	
TOTAL RPP	243.2	234.1	226.8	(9.1)	(3.8) %	7.3	3.1 %	340.5	346.5	318.8	

¹ Schedule and Cost variance values & percentages calculated based on \$ in thousands.

Shading represents variances outside the threshold of -7.5% schedule variance and -5% cost variance.

NOTE: Financial data is not reported for PBSs TW06 and TW07.

Total Cost/Schedule Performance - All Fund Types for FY 2000
 Cumulative to Date Status (Dollars in Millions)



EAC
 COMMIT
 \$365.5M

 EAC
 \$340.7M

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PTS BCWS	22.0	53.7	79.2	106.0	133.1	166.6	195.3	232.2	260.2	287.6	321.5	359.5
BCWP	20.4	50.7	73.6	100.9	125.9	159.4	185.5	221.9	251.1			
ACWP	8.8	42.3	69.1	95.1	122.9	157.5	184.5	218.6	242.2			
SV	(1.6)	(3.0)	(5.6)	(5.1)	(7.2)	(7.2)	(9.8)	(10.3)	(9.1)			
CV	11.6	8.4	4.5	5.8	3.0	1.9	1.0	3.3	8.9			

Total Cost/Schedule Performance - All Fund Types
 (Including All Direct Funded Activities)
 (Dollars in Millions)

PBS / TITLE	FISCAL YEAR TO DATE							ANNUAL DATA		
	BUDGET COST		ACTUAL COST	VARIANCE			CURRENT BAC	EAC COMMITMENT (FUNDS)	JUNE EAC (FYSF)	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	SCHED % ¹	COST				COST % ¹
ALL FUND TYPES										
IW01 CHARACTERIZATION	24.8	24.5	21.8	(0.3)	(1.2) %	2.7	11.2 %	32.6	29.1	29.9
IW02 SAFETY	17.8	17.6	15.6	(0.2)	(1.5) %	2.0	11.3 %	25.2	24.3	21.5
IW03 TANK FARM OPS	99.0	94.1	96.7	(4.9)	(4.8) %	(2.6)	(2.7) %	138.0	136.3	137.2
W-314 - TF Rest'n - LI	16.0	13.5	12.3	(2.5)	(15.7) %	1.2	8.6 %	23.8	21.3	20.4
TOTAL OPS	115.0	107.6	109.0	(7.4)	(6.4) %	(1.4)	(1.3) %	161.8	157.6	157.6
IW04 RETRIEVAL	37.2	36.6	36.1	(0.6)	(1.8) %	0.5	1.3 %	50.6	50.7	50.2
W-211 - Init Tank Ret'vl-LI	3.3	3.7	3.4	0.4	13.0 %	0.3	9.9 %	4.8	14.9	4.7
TOTAL RETRIEVAL	40.5	40.3	39.5	(0.2)	(0.5) %	0.8	2.1 %	55.4	65.6	54.9
IW05 PROCESS WASTE SUPPORT	8.2	8.2	8.8	0.0	0.0 %	(0.6)	(7.3) %	8.5	8.3	12.0
IW08 PRIVAT'ZN INFRASTRUCTUR	2.3	2.4	1.2	0.1	2.0 %	1.2	48.2 %	3.1	2.3	2.2
W-519 - Priv Infra Spt -LI	8.7	8.9	6.6	0.2	2.3 %	2.3	25.2 %	15.8	20.2	9.3
TOTAL INFRASTRUCTURE	11.0	11.3	7.8	0.3	2.3 %	3.4	30.0 %	18.9	22.5	11.5
IW09 IMMOBILIZED WASTE	6.7	6.6	5.5	(0.1)	(0.4) %	1.2	17.4 %	9.0	8.1	8.0
IW10 MANAGEMENT SUPPORT	36.2	35.0	34.2	(1.2)	(3.4) %	0.7	2.1 %	48.1	46.3	45.3
RPP RESERVE/CARRYOVER									3.7	-
TOTAL RPP EXP/ICE	232.2	225.0	219.9	(7.2)	(3.1) %	5.1	2.3 %	315.1	309.1	306.3
TOTAL RPP LI	28.0	26.1	22.3	(1.9)	(6.7) %	3.8	14.5 %	44.4	56.4	34.4
TOTAL RPP	260.2	251.1	242.2	(9.1)	(3.5) %	8.9	3.5 %	359.5	365.5	340.7

¹ Schedule and Cost variance percentages are calculated based on \$ in thousands.

NOTE: Financial data is not reported for PBSs TW06 and TW07.

SCHEDULE VARIANCE ANALYSIS (\$9.1M)

WBS/PBSTitle**1.01.01/TW01 Tank Waste Characterization**

Description and Cause: The unfavorable schedule variance (-\$0.3M; -1.2%) is due to being behind schedule on lab analyses. The unfavorable schedule variance is partially offset by being ahead of schedule in core sampling.

Impact: No milestones are impacted.

Corrective Action: The lab continues to work the backlog of sample analyses.

1.01.02/TW02 Tank Safety Issue Resolution

Description and Cause: The unfavorable schedule variance (-\$0.2M; -1.5%) is within the reporting threshold of negative 7.5 percent; therefore, no explanation is required at this time.

Impacts: None required.

Corrective Action: None required.

1.01.03/TW03 Tank Farm Operations

Description and Cause: The unfavorable schedule variance (-\$7.4M; -6.4%) has improved from last month of (-\$8.4M), and is within the reporting threshold of negative 7.5 percent. Several Baseline Change Requests (BCRs) are in process (RPP-00-073, 107, and 119) that will incorporate new and revised scope, thus further improving the schedule variance. The BCRs include scope adjustments for DST integrity assessments; U farm over ground transfer lines; and work scope deferrals and deletions (for the gap closure). Project W-314, "Tank Farm Restoration and Safe Operations," continues to report an unfavorable schedule variance due to SN transfer line and piping issues.

Impacts: Milestone T03-00-057, contractor deliverable for M-43-14, to start construction of upgrades in the third tank farm, due June 30, 2000 has been missed.

Corrective Action: Approval and implementation of the BCRs will significantly improve the schedule variance. For Project W-314, excavation of the re-routed SN-635 line is complete, and an alternate SN-635 pipe vendor has been selected. Installation of the SN-635 pipeline will begin in July 2000.

1.01.04/TW04 Retrieval Project

Description and Cause: The unfavorable schedule variance (-\$0.2M; -0.5%) is within the reporting threshold of negative 7.5 percent; therefore, no explanation is required at this time.

Impact: None required.

Corrective Action: None required.

1.01.05/TW05 Process Waste Support

Description and Cause: There is no schedule variance; therefore, no explanation is required at this time.

Impact: None required.

Corrective Action: None required.

1.01.08/TW08 Privatization Infrastructure

Description and Cause: The favorable schedule variance (\$0.3M; 2.3%) is due to work on water lines and roads progressing approximately two weeks ahead of schedule.

Impact: No impacts.

Corrective Action: None required.

SCHEDULE VARIANCE ANALYSIS (\$9.1M) (continued)

WBS/PBSTitle

1.01.09/TW09

Immobilized Waste

Description and Cause: The unfavorable schedule variance (-\$0.1M; -0.4%) is within the reporting threshold; therefore, no explanation is required at this time.

Impact: None required.

Corrective Action: None required.

1.01.10/TW10

Management Support

Description and Cause: The unfavorable schedule variance (-\$1.2M; -3.4%) is primarily due to Work Management activities being stopped in order to re-focus on a commercial off-the-shelf, less expensive and user friendly software program for the business system solution.

Impacts: Milestone T10-00-200, Complete Work Management Pilot at RPP, will be deleted.

Corrective Action: BCR RPP-00-115 is in process to delete Work Management activities from the baseline.

COST VARIANCE ANALYSIS \$8.9M

1.01.01/TW01

Tank Waste Characterization

Description and Cause: The favorable cost variance (\$2.7M; 11.2%) is due to a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; and efficiencies in core sampling operations driven by the elimination of several planning packages for equipment set-up and tear-down, thus reducing planning and craft labor costs. Additional cost savings are reflected in Program Management and data development activities as a result of labor underruns. The positive cost variance is partially offset by higher than anticipated costs from the 222-S laboratory, resulting from overtime and expedited service on lab assessments.

Impact: There are no impacts.

Corrective Action: Efficiencies are being used to perform emerging and accelerated work scope.

1.01.02/TW02

Tank Safety Issue Resolution

Description and Cause: The favorable cost variance (\$2.0M; 11.3%) results from indirect credit passbacks and realization of efficiencies in Flammable Gas activities.

Impact: There are no impacts.

Corrective Action: Efficiencies have been identified for re-allocation to other high priority CHG needs.

1.01.03/TW03

Tank Farm Operations

Description and Cause: The unfavorable cost variance (-\$1.4M; -1.3%) is due to the following: Unbudgeted costs for integrated site vegetation and animal control (ISVAC); unplanned pump replacements for tanks 241-S-102 and 241-U-105, additional U farm infrastructure needs not planned in FY 2000 (pressure test assembly, and miscellaneous upgrades); and equipment for the U/S/SX farm over ground transfer line. The unfavorable cost variance is partially offset by a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools.

Impact: There are no significant impacts at this time.

Corrective Actions: BCRs RPP-00-059, "S-Complex over ground transfer line," and RPP-00-062, "Resolve FY 2000 emerging work scope issues" are in process to incorporate budget for the above activities. Overtime and procurement are being reviewed and controlled.

COST VARIANCE ANALYSIS \$8.9M (continued)

WBS/PBS

Title

1.01.04/TW04 Retrieval Project

Description and Cause: The favorable cost variance (\$0.8M; 2.1%) is primarily due to a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; efficiencies in vadose zone characterization activities; Project W-521, "Waste Feed Delivery Systems" conceptual design, due to subcontract awards being done in phases; and Project W-211, "Initial Tank Retrieval Systems" efficiencies on Title II designs for the AZ-102, AN-104, AP-102/104 retrieval systems from lessons learned on previous designs. The favorable cost variance is partially offset by additional costs for overtime and contract work (equipment installation and unplanned corrective maintenance) to support the accelerated 241-AZ-101 mixer pump test effort.

Impact: There are no significant impacts at this time.

Corrective Action: BCR RPP-00-108 is in process to address the additional costs. Other work scope is under review for potential efficiencies and/or reductions.

1.01.05/TW05 Process Waste Support

Description and Cause: The unfavorable cost variance (-\$0.6M; -7.3%) is due to PNNL reporting costs against a higher budget level authorized by DOE-ORP than the MYWP.

Impact: There are no impacts at this time.

Corrective Action: A change request is being prepared to increase the budget to align the PNNL work plan with the MYWP.

1.01.08/TW08 Privatization Infrastructure

Description and Cause: The favorable cost variance (\$3.4M; 30.0%) is due to Program Management efficiencies resulting from better utilization of existing staff; a favorable habitat mitigation fixed price contract; and an underrun due to a favorable bid on the electrical system design for Project W-519.

Impact: There are no impacts.

Corrective Action: Efficiencies have been identified for redistribution to other high priority CHG needs.

1.01.09/TW09 Immobilized Tank Waste

Description and Cause: The favorable cost variance (\$1.2M; 17.4%) is primarily due to efficiencies in program management, and ILAW and IHLW engineering studies (sample transport and melter strategy) resulting from better utilization of existing staff (by using similar studies, and having staff more familiar with the work). In addition, geotechnical data packages and wind/stack/thermal analysis activities are costing less than anticipated at this time. The first phase of these activities is to gather the information, which costs less than the second phase, which is to prepare the documents.

Impact: There are no impacts.

Corrective Action: Efficiencies have been identified for reallocation to support other CHG needs.

1.01.10/TW10 Management Support

Description and Cause: The favorable cost variance (\$0.7M; 2.1%) results from a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; and efficiencies gained through better utilization of resources in Information Resource Management (IRM), Construction Project Management, Systems Engineering and Technical Baseline, Financial Control and Integration, and Project Integration Office activities. The positive variance is partially offset by unplanned costs for directed critical path activities.

Impacts: There are no impacts.

Corrective Action: Funds will be made available to support other high priority CHG needs.

Office of River Protection

Tri-Party Agreement
Quarterly Milestone Review



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

August 22, 2000

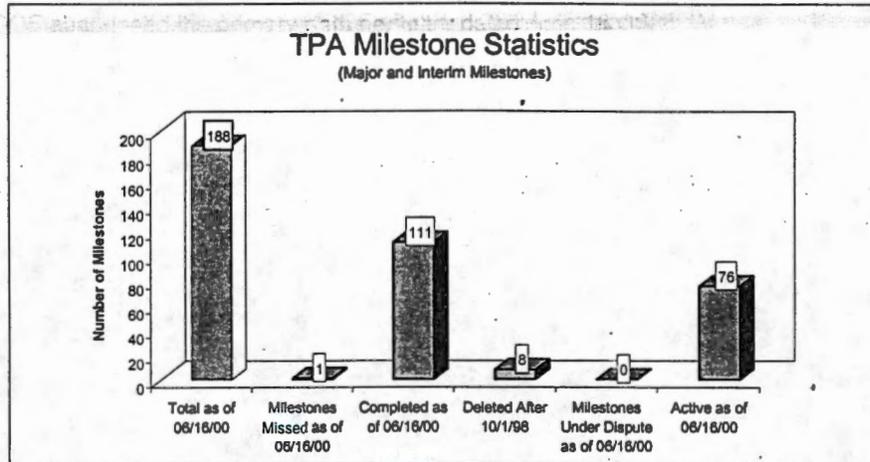
Agenda

Office of River Protection Tri-Party Agreement Quarterly Milestone Review

August 22, 2000

Topic	Leads	Time
FY 2000 ORP Tri-Party Agreement Cost & Schedule Performance	Hector Rodriguez/Mark Riess/Suzanne Dahl	9:00
• Interim Stabilization (Consent Decree)	Mike Royack/Wahed Abdul/Kevin DeWitt	9:15
• M-46-00, Double-Shell Tank Space Evaluation	Mike Royack/ Russ Harwood/Tony Valero	9:30
• DST Integrity Assessment Program	Mike Royack/Russ Harwood/Tony Valero	9:40
• M-44-00, Tank Waste Characterization	Mike Royack/Wen-Shou Liou/Debra Singleton	9:45
• M-40-00, Safety Issue Resolution	Joe Voice/Dennis Irby/Kevin DeWitt	9:55
• M-45-00, Single-Shell Tank Closure	Steve Wiegman/Bob Lober/Suzanne Dahl	10:05
• M-45-50, 60 Single-Shell Tank Corrective Action	Steve Wiegman/Rob Yasek/Stan Leja	10:20
• M-43-00, Tank Farm Upgrades	Bill Taylor/Bobby Williams/Dick Heggen	10:35
• M-47, Tank Waste Treatment, Storage and Disposal Facilities	Joe Cruz/Suzanne Dahl	10:50
• M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bill Taylor/Suzanne Dahl	10:55
• M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW	Bill Taylor/Phil LaMont/Suzanne Dahl	11:00

Handout on Cost/Schedule Performance to be provided at the meeting.



Milestone Completion Date	Total Milestones as of 02/29/00	Milestones Completed as of 02/29/00	Milestones Deleted After 10/1/98	Milestones Under Dispute as of 02/29/00	Milestones Active as of 02/29/00	Milestones Missed as of 02/29/00
M-20-00 Submit Part B Permit Application on Closure/Pool Closure Plans for all RCRA TSD Units	2/29/2004	3	0	0	3	0
M-40-00 Migrate/Reactive Tank Safety Issues for High Priority Watchlist Tanks	9/30/2001	19	18	1	0	1
M-41-00 Complete Single Shell Tank Interim Stabilization	9/30/2000	12	12	7	0	0
M-43-00 Complete Tank Farm Upgrades	6/30/2005	20	16	0	0	4
M-44-00A Double and Single Shell Tank Characterization	9/30/2002	34	24	0	0	10
M-45-00** Complete Closure of all Single Shell Tank Farms	9/30/2024	46	15	0	0	30
M-46-00 Double Shell Tank Space Evaluation	9/30/2003	26	12	0	0	14
M-50-00 Complete Pretreatment Processing of Hanford Tank Wastes	9/30/2024	4	2	0	0	2
M-51-00 Complete Verification of Hanford High Level Tank Waste	12/31/2028	4	2	0	0	2
M-60-00 (primary path) Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste	12/31/2024	(12)*	8	0	0	(4)*
M-61-00* (alternate path) Complete Pretreatment and Immobilization of Hanford Low Activity Tank Waste	12/31/2028	4	0	0	0	4
M-90-00 Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD	8	2	0	0	6
Total		188	111	8	0	76

*DOE abandoned the primary path per letter dated June 18, 1998. M-60-00 milestones were automatically deleted from the Tri-Party Agreement, and M-61-00 milestones were activated under the alternate path (Ecology and EPA stated their disagreement with this footnote at the July 28, 1998 IAMIT meeting). M-50-00, M-51-00, M-60-00 and M-61-00 milestones are being negotiated as part of ongoing privatization TPA negotiations.

** Does not include proposed groundwater/vadose zone milestones M-45-50 through M-45-60, which were in public comment through May 17, 1999. Ecology and DOE are currently working on the Public Comment Response Package.

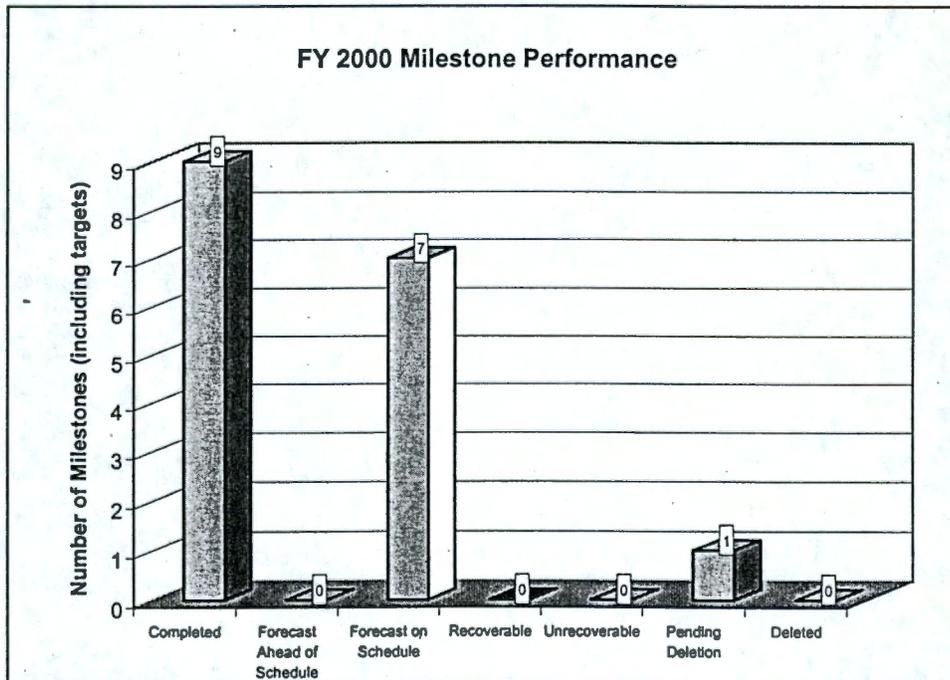
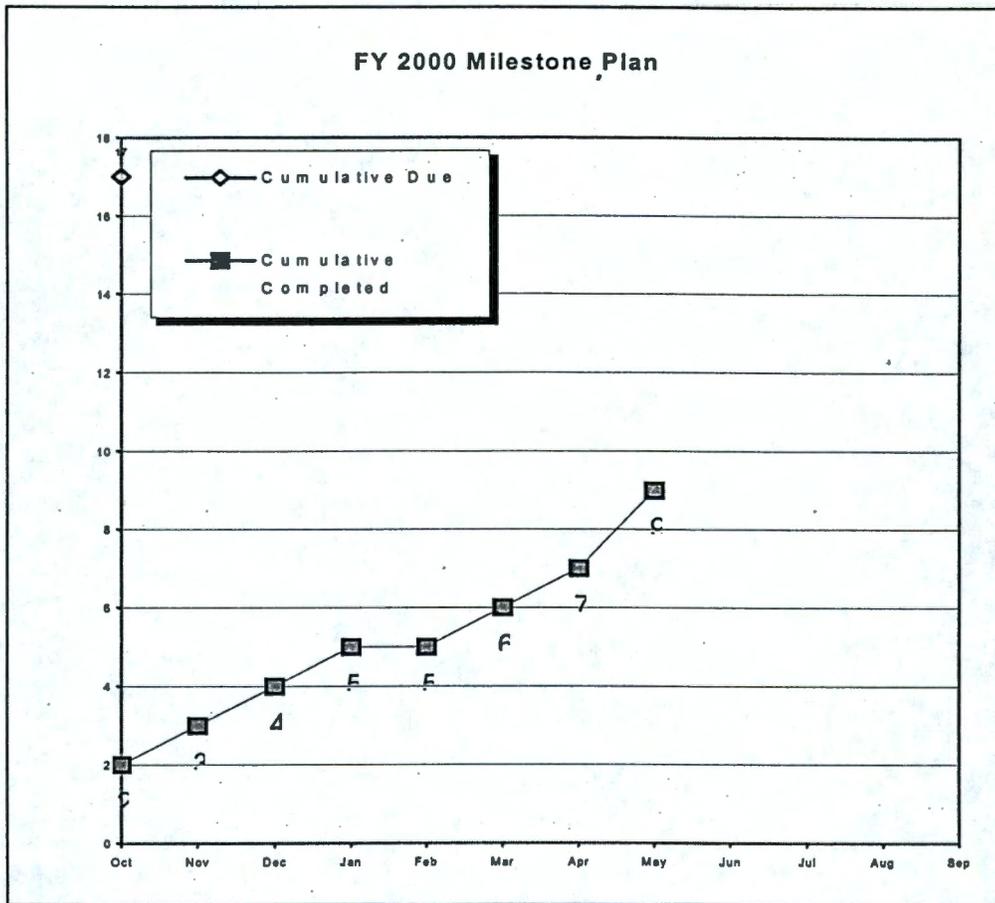
***Director of Ecology determination, August 8, 1997 letter.

Fiscal Year 1999 Tri-Party Agreement Milestone Status (Carryover Issues)

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-32-00*	Complete Identified Dangerous Waste Tank Corrective Actions.	9/30/99	X						
M-45-10A-T1**	Submit DOE Approved DQO for Phase II Tank Waste Retrieval.	5/31/99						X	
M-51-04B-T1**	Submit Approved DQO for Phase II HLW Feed Staging.	5/31/99						X	

*M-32-00 Notice of Intent (NOI) for future enforcement action.

**These target dates have been moved into the "Pending Deletion" category pending the outcome of the privatization negotiations. (Note: Both dates are removed in the 03/29/00 Director's Determination.)



*M-090-07-T01 – Moved into the “Pending Deletion” category pending the outcome of the privatization negotiations.

Fiscal Year 2000 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-43-13	Start Construction for Upgrades in the Second Tank Farm	6/30/00	X						
M-44-13D	Submit Draft WIRD for FY 2001	6/30/00	X						
M-44-14D	Submit Final WIRD for FY 2001 to Ecology	8/31/00			X				
M-44-15D	Issue Characterization Deliverables Consistent with WIRD Developed for FY 2000	9/30/00			X				
M-44-16D	Complete Input of Characterization Information for HLW Tanks per WIRD Sampling into Electronic Database. Offsite Access to be Available to EPA and Ecology	9/30/00			X				
M-45-02E	Submit Annual Update of SST Retrieval Sequence Document for Ecology Approval	9/30/00			X				
M-45-03B	Complete C-106 Sluicing	12/31/99	X						
M-45-09E	Submit Annual Progress Report on the Development of Waste Tank Leak Monitoring and Mitigation Activities in Support of M-45-08	9/30/00			X				
M-45-11A	Submit 244-AR Vault Interim Stabilization Plan for Ecology Approval	4/30/00	X						
P-45-52	Submit to Ecology for Review and Approval as an Agreement Primary Document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX.	10/31/99	X						
P-45-53	Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA B-BX-BY	5/31/00	X						
P-45-56-T01	Summarize Results of Engineering Studies and Recommendations on Isolating Water Lines in or Near SST WMAs, and Controlling Surface Drainage at SST WMAs and Submit these Results to Ecology.	10/31/99	X						
P-45-50-T03	Issue Final Baseline Spectral Gamma Logging Report for B Tank Farm	3/31/00	X						
P-45-50	Complete Spectral Gamma Logging	9/30/00			X				
M-46-01F	Concurrence of additional tank acquisition	11/30/99	X						
M-46-00G	DST Space Evaluation	9/30/00			X				
M-90-07-T01	Complete ILAW Disposal Conceptual Design	6/30/00						X*	
TOTAL			9	0	7	0	0	1	0

*This target date has been moved into the "Pending Deletion" category pending the outcome of the privatization negotiations.

**Change Request M-45-98-03
SST Corrective Action
Groundwater/Vadose Zone**

DOE and Ecology continue working jointly to finalize the Public Comment Response Document.

**M-90-00-02 Delete Target Date
M-90-07-T01**

Change request sent to Ecology on 3/10/00. Ecology has rejected this change request. Disposition of the M-90-07-T01 target date will be handled within the Privatization Negotiations/Director's Determination.

Interim Stabilization Consent Decree

Consent Decree Status, Complete Single-Shell Tank Interim Stabilization

Milestone Description and deliverable (Near-term):

- All milestones for FY 2000 have been met except pending the milestone for organic removal, which is not due until Sept. 30th.
- Initiate pumping of tanks U-103, U-105, U-102 and U-109 by June 15, 2000
 - Ahead of schedule. Initiated pumping of all 4 tanks.
- Initiate Pumping of tank A-101 and AX-101 by October 30, 2000
 - A-101 pumping initiated on May 6, 2000, significantly ahead of schedule.
 - AX-101 pumping initiated on August 1, 2000.
- Tanks declared Interim Stabilized: T-104, T-110, S-103, SX-104, and SX-106.

Status:

- Started the pumping for tank SX-105 on August 8, 2000.
- Pumping ongoing for tanks U-102 and U-109.
- Currently 3 tanks, S-106, U-103, and U-105 have stopped pumping, and being evaluated for interim stabilization. Tank U-105 is being evaluated under the consent decree criteria of major equipment failure.
- Pump in A-101 has been plugged within 3 days after replacement in July.
- Pump in AX-101 has also been plugged since August 11, 2000, after continuous degradation of flow and suction and discharge pressure.
- Pumps A-101, AX-101, and S-102 have been put under engineering evaluation to determine a path forward to improve pumping.
- 808,000 gallons of liquid waste (20%) of the projected total pumpable liquid of 4.0M-gallon has been removed.
- 282,000 gallons of organic complexant liquid waste (56%) of the projected total pumpable organic complexant liquid of 502,000 gallons is removed.
- Since the rate of pumping for organic tanks have decreased significantly, a new tank U-106 is accelerated to be pumped this year to meet the Consent Decree milestone, which is planned to start later in August.

- To reduce the risk of failure of existing piping, new aboveground piping is being installed for pumping of S and SX farms.

Issues/Recovery:

- Lesser rate of liquid pumped compared to the earlier estimate, may indicate lesser overall total liquid volume. This will be captured in the yearly revision to the liquid volume projection.
- Engineering evaluation of A-101, AX-101, and S-102 involves evaluating changes in the process to reduce plugging:
 - Analyze waste samples to determine effect of chemical addition
 - Evaluating different types of pumps to determine the most effective pump for these conditions.
 - Preliminary results show pumps failed due to bearing issues rather than plugging.
- Upcoming milestone for reduction of the volume remaining for organic complexant to 38% by September 30, 2000 have some concerns:
 - Accelerating tank U-106 pumping.
 - Expedite the evaluation of Interim Stabilization for tanks U-103 and U-105, which will reduce the remaining pumpable volume and hence improve the possibility of meeting this milestone.
 - Transmit letter to Ecology to notify the above concern on organic volume milestone.

Planned Activities:

- Complete the stabilization evaluation for 3 tanks noted above.
- Complete the engineering evaluation to determine the optimum process and system for the difficult tanks.
- Initiate pumping of U-106.
- Design and procurement of new piping for S and SX transfers.

Milestone M-46-00, Double-Shell Tank Space Evaluation

Status:

Correspondence:

- Ecology's 12/1/99 letter to DOE agreed to the construction of no new double shell tanks (DST) provided (summarized):
 1. An ongoing, aggressive DST integrity assessment program is implemented;
 2. Single shell tank (SST) Program develops a systems approach to SST closure, including advanced retrieval technology deployment in the early 2000s;
 3. Space is maximized in the DSTs (consider actions in Safe Interim Storage Environmental Impact Statement); and
 4. Vitrification (treatment) plant is built and operated according to schedules agreed to in the Tri-party Agreement (TPA).
- DOE's 1/31/00 response to Ecology's 12/1/99 letter concurs with Ecology's recommendations and agreed to the letter's requests. DOE submitted the letter to Ecology on April 26, 2000.
- M-46-00G, TPA milestone for DST space evaluation is on schedule. A draft for Ecology review is expected by August 15th.

Issues:

No issues.

Planned Activities:

DST Tank AW104 planned transfer pump replacement in early 2001. Remove 750,000 gallons of supernate and transfer to an evaporator staging tank by March 31, 2001 to make additional DST space available.

DST Integrity Assessment Program

- **FY 2000 Planned Work Scope**
 - Complete tank examinations (leak test, visual examination) of 3 DCRTs, 6 catch tanks, and 2 miscellaneous tanks
 - Conduct ultrasonic testing on two additional DSTs (AP-107, AP-108)
 - Prepare Program Plan
- **FY 2000 Progress to Date**
 - Completed tank examinations for 3 DCRT (244-BX, 244-A, and 244-TX), 5 catch tanks (UX-302A, U-301B, TX-302C, ER-311, AZ-151)
 - Procured new magnetic wheel crawler and scanner for ultrasonic testing of DSTs.
 - Operator training and qualification is complete.
 - Developed and demonstrated remotely operated equipment for DST wall surface preparation for ultrasonic examination. (Initial application is AY-101, now planned for FY 2001, where external corrosion product buildup prohibited ultrasonic examination in FY 1999)
 - Completed meetings involving Ecology, ORP, and CHG. Activities and milestones have been identified over the next several years to assess tank system integrity and assure availability of waste storage and transfer systems over the RPP mission life.
 - Working toward resolution of the Notice of Penalty and Administrative Order.
 - Completed UT examination of DST 241-AP-107
 - Partially completed UT examination of DST 241-AP-108.

Milestone M-44-00A, complete delivery of information requirements as identified in the annually submitted Waste Information Requirements Document (WIRD)

Status

- Completed 15 core samples. A total of 14 Core samples were planned for the year.
- Completed grab sample from AN-102 to meet ICD-23 requirements.
- Completed a total of eight Type IV vapor samples.
- Sampling status in the following table is as of August 15, 2000.

Tank	Sample	MYWP	FY 00
<u>Scheduled/Completed</u>	<u>Scheduled/Completed</u>	<u>Sampling Baseline</u>	
Core	6/7	14/15	14
Grab	7/7	13.3/13.8	16
Vapor	6/5	9/8	9
Auger	0/0	0/0	0

- Eleven TCRs have been completed and submitted to Ecology. A total of 15 TCRs will be submitted to Ecology for FY 2000.
- Completed and submitted the Final FY 2001 TSB-WIRD to Ecology to fulfill TPA Milestone M-44-14D requirement.
- A PCB DQO meeting was held on August 10, 2000. Decision-Makers were identified. Scope of the DQO was defined. Next meeting is scheduled for August 30, 2000 to continue the DQO process.
- A draft Regulatory DQO Test Plan prepared by PNNL is under CHG and ORP review. Sample from Tank 241-AN-102 will be shipped to PNNL in October for Implementation of Regulator DQO holding time studies.

Issues

- No issues to report.

Planned Activities

- M-44-13D: Submit draft WIRD to Ecology for FY 2001. Ecology will provide

comments within 30 days after submittal; due date 6/30/00. (Completed

May 30, 2000 with transmittal from ORP to Ecology)

- M-44-14D: Submit final WIRD for FY 2001 to Ecology; due date 8/31/00.
(Completed August 15, 2000 with transmittal from ORP to Ecology)
- M-44-15D: Complete characterization deliverables consistent with WIRD developed for FY 2000. Reporting on progress of these deliverables will be done in quarterly reports due at the end of the month following each fiscal year quarter. The fourth quarterly report, due at the end of October, will also include a year end summary of all deliverables due for the fiscal year; due date 9/30/00.
- M-44-16D: Complete Input of Characterization Information for HLW Tanks for which Sampling and Analysis was Completed Per the FY 2000 WIRD into Electronic Database; due date 9/30/00.

**Milestone M-40-00, "Mitigate/Resolve Tank Safety Issues for High Priority
Watchlist Tanks"**

Status:

- Continued to keep Ecology informed of current status of SY-101.
- SY-101 observation period completed July 14, 2000.
- Submitted organic solvent documentation to DOE-HQ for removal of C-102 and C-103 from watchlist.

Issue:

- None.

Planned Activities:

- Review contractor closure document for SY-101 (Sept 2000).

Other General Safety Activities:

- Continue to revise the flammable gas accident analysis methodology.

Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms

Correspondence and DOE/Ecology Partnering efforts

I. Correspondence

April 29, 1999; Ecology's letter to DOE expressing concern about DOE suspension of work on the Hanford Tank Initiative and the pathforward for this effort.

May 21, 1999; DOE's response to Ecology's April 29, 1999 letter. DOE reaffirmed the need for Cone Pentrometer deployment, continued development and application of The Retrieval Performance Evaluation methodology, and a pathforward for C106 retrieval technology crawler demonstration.

September 30, 1999; DOE's M-45-09D "Submit Annual Progress Reports on the Development of Waste Tank Leak Monitoring, Detection and Mitigation Activities in Support of M-45-08"

Identifies Retrieval release protection strategy based on integrating leak detection, monitoring and mitigation with retrieval technologies and tank integrity.

Strategy utilizes a cumulative SST closure source term comprised of past leaks, residual contamination and potential retrieval losses.

September 30, 1999; DOE's M-45-02D "Submit Annual Update of Single-Shell Tank Retrieval Sequence Document"

DOE indicated that sequence strategy is risk based prioritizes selection based on:

Soundness of tanks;

Waste Feed Delivery requirements;

Risk reduction by early retrieval of high curie content tanks;

Early infrastructure upgrade or new project demands;

Complexity of the retrieval environment;

Acceleration of SST in Retrieval Sequence

December 1 1999; Ecology letter to DOE agreed to the construction of no new double shell tanks (DST) provided (summarized):

An ongoing, aggressive DST integrity assessment program is implemented;

Single shell tank (SST) Program develops a systems approach to SST closure, including advanced retrieval technology deployment in the early 2000s;

Space is maximized in the DSTs (consider actions in Safe Interim Storage Environmental Impact Statement); and

Vitrification (treatment) plant is built and operated according to schedules agreed to in the Tri-party Agreement (TPA).

Ecology's letter also requested the following:

- "Special case" projection and impact estimate of the Operational Waste Volume Projection (OWVP) to include the revised estimate for salt well liquid (6.2 million to 4.2 million gallons); and
- Future OWVP reports include discussion of SST waste retrieval capacity in the DSTs.
- Future OWVP reports include a cost estimate and schedule for the design, construction, and testing of new DSTs based on the tank volume projection.

January 18, 2000; Ecology's view of the Tank Retrieval Program. Ecology expressed concern of the FY00 funding of \$500K for the SST Program. Ecology also noted recent ORP direction to the contractor concerning DOE's pursuit of additional scope for SSTs. Ecology's values on SST were noted in letter and Ecology acknowledged their values and input into the decision to place C104 in minimum order. Ecology also noted that the current SST id'd for retrieval in phase 1 "satisfies our values". Note that this retrieval sequence for SSTs has a total of 5 SSTs thru 2018; not all 149 retrieved by that date as stipulated in TPA M45-05 series.

January 31 2000; DOE's response to Ecology's December 1, 1999 letter acknowledging Ecology's conditional approval for no new tanks based on letter's conditions.

May 31, 2000; Dahl-Wiegman. Ecology letter cites continued regulator frustration concerning lack of progress in developing a viable SST retrieval program that is consistent with various technical and regulatory requirements. The letter also notes Ecology's expectations on what activities ORP should pursue inclusive of DST back-filling with SST waste, development of alternative SST waste retrieval technologies which utilize low-hydraulic head systems and reliable Leak Detection capabilities, plans and construction of all required systems to transfer as much SST waste as possible during phase I and continued development of a risk-based approach to determine appropriate retrieval and closure actions using system approach similar to Retrieval Performance Methodology for the AX Tank Farm.

Current ORP response to Ecology letter is in development. Letter contents are anticipated to include the drivers and necessary scopes supporting drivers as incorporated in approved BCRs.

DOE/Ecology Partnering Efforts

DOE and Ecology have been meeting since June 1999, to discuss evolving Waste Feed Delivery and SST schedules with Ecology incorporating their values into emerging workscope.

DOE and Ecology have met on Leak Detection, Mitigation and Monitoring strategy for SST retrieval

- DOE has received comments from Ecology and is reissuing the strategy to Ecology.

M45 Compliance Status

DOE will meet milestones M45-02E and M45-09E, SST Sequencing and Leak Detection Mitigation and Monitoring respectively (9/30/2000).

DOE is at risk of noncompliance for near-term milestone M45-08A "Complete System Design and Operating Strategy for Tank Leak Monitoring and Mitigation for systems to be used in conjunction with initial retrieval systems for SSTs, due 12/31/2000". It is anticipated that the upcoming negotiations will align this milestone to a near-term SST retrieval action consistent with planning basis.

Based on treatment hot start dates, waste feed treatment processing rates and DST availability, DOE can not meet the balance of M45 milestones as noted in January TPA change request.

Issues

SST retrieval schedule is dictated by available DST space (for backfilling and staging of waste to BNFL), Plant hot start date, glass loading and waste processing rate of the treatment plant. Current planning to support waste processing requirements for minimum order Phase 1 indicates 2 SST retrievals for envelope D processing with up to 16 SST retrievals to backfill DSTs as space becomes available. Current schedule indicates that SST C104 will be required to support the minimum order delivery in 2007 with S112 identified in 2003-04 as a candidate tank for a salt cake demonstration retrieval campaign supporting DST space utilization. Rebaselining as per negotiations will identify S112 as salt cake tank demo with S102 retrieval as an additional risk reduction tank.

Constrained funding for ORP places additional risk on Waste Feed Delivery, Operations, and Treatment in supporting this SST work scope. Combination of additional funding and contractor incentives identified to support SST planned activities for demo activities.

Ongoing Activities

ORP and Ecology are negotiating on M45 near-term milestones through 2006 as per Ecology Final Determination timetable.

ORP is meeting with HQ on M45 today and tomorrow.

ORP staff met with Harry Boston and briefed him on subject negotiations content and budget.

M-45-50, -60 Single-Shell Tank Corrective Action**Status:**

M-45-53: Submit to Ecology for review and approval as an Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA B-BX-BY (due May 00)

The document was submitted to Ecology on May 31, 2000. Ecology returned comments to DOE on July 31, 2000. DOE and Ecology have scheduled meetings, starting on August 8th, 2000 to resolve comments on this work plan.

Issues:Change package status:

Comment resolution on TPA milestone change M-45-98-03 has not been completed, and the change has not received final approval. DOE requested Ecology by letter to approve modifications to three proposed milestone dates. DOE is currently awaiting written Ecology approval to changes in the proposed milestone dates. Discussions with Ecology staff indicated they were supportive of the changes and would determine the path forward to incorporate the path forward to incorporate changes to the proposed milestone dates. Proposed changes were:

- 1) Modify the date that the T, TX-TY Work Plan Addendum would be due to Ecology to March 2001 from December 2000.
- 2) Modify the date that the S-SX Field Investigation Report (FIR) would be due to Ecology to January 2002 from April 2001.
- 3) Modify the date that the B-BY-BY Field Investigation Report would be due to Ecology to October 2002 from May 2002.

The reason for the modification in dates is to better align work plan and report development with planned field activities. Adoption of these due dates would not affect the due date for M-45-55, Phase 1 RFI Report (Due 2/04), and would allow improved work plan and report development.

Planned Activities:

M-45-52: Submit to Ecology for review and approval as a Agreement primary document a site-specific SST WMA Phase 1 RFI/CMS Work Plan addenda for WMA S-SX (10/29/99)

The slant borehole under SX-108 has been completed with samples successfully collected from 16 of 17 planned intervals. Geophysical logging (neutron, spectral gamma, gyroscopic survey) was then completed, and decommissioning of the borehole is scheduled to be complete the week of August 7, 2000.

Groundwater monitoring:

ORP is coordinating internally and with RL to install new RCRA compliant wells around tank farms.

M-45-50:

Complete development of a spectral gamma logging baseline for SST farms, due September 2000.

Work is continuing on Tank Farm Report (TFR) Addenda, which includes the results of repeat logging, high-rate logging, and shape factor analysis. TFR addendum for BX and SX were delivered in July 2000.

ORP has had discussions with RL and GJO concerning options for assessing a geophysical monitoring program to follow the completion of the spectral gamma logging baseline for SSTs and has reviewed workscope for FY 2000 geophysical monitoring at tank farms.

Milestone M-43-00, Tank Farm Upgrades

Status:

Interim milestone update

- SN-635 inside 3" pipe welds complete and line pressure tested to 440psi, currently welding outside 6" line.
- SN-633 pipe 15 spools out of 26 placed in trench.
- AY-01A Pump Pit cracks repaired cover block installed currently working on the leak detection installation.

Issues:

- None

Planned Activities:

- Start Greenfield transfer line design.

Major Accomplishments:

- Completed AY-01A crack repair.
- Procured pipe for SN-633 and SN-635 lines.

M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes

Milestone M-90-00, Complete acquisition of new facilities, modifications of existing facilities, and/or modifications of planned facilities, as necessary for storage of Hanford Site IHLW, ILAW, and disposal of ILAW, and M-20-00, Submit Part B Permit Applications

Status:

- M-90-01, Submit Interim Storage and Disposal ILAW and Interim Storage IHLW Project Management Plans to Ecology (12/97). Completed 12/97. Revised PMPs were provided to Ecology for information at the January 2000 meeting. Draft Rev. 3 PMPs are planned for September 2000
- M-90-05-T, Submit Final ILAW Disposal Facility Performance Assessment to Ecology for review (12/02). Completed 06/98. The annual summary of ILAW performance assessment containing the white paper updating the conclusions of the 1998 performance assessment (PA) was formally issued to DOE-HQ, Ecology, and the NRC in July.
- M-90-07T, Complete ILAW Disposal Facility Conceptual Design (06/00). Eliminated in Final Determination Package. A new ILAW disposal facility conceptual design based on the remote handled trench concept is planned for FY01. Ecology rejected the change request to reschedule this target milestone. Disposition to be handled in negotiations.
- M-90-08, Initiate ILAW Disposal Facility Construction (6/03). Final Determination date is 07/04. Current ORP planning date is 07/04.
- M-90-09T, Complete ILAW Disposal Facility Detailed Design (03/03). Final Determination date is 03/04. Current ORP date is 06/04.
- M-90-10, Initiate Hot Operations of ILAW Disposal Facility (12/05). Final Determination date is 01/07. Current ORP date is 06/07.
- M-90-11, Complete Canister Storage Facility Construction (12/02). Final Determination date is 02/07. Current ORP date is 06/08. Project W-464 status for ORP project validations was presented on July 25, 2000.
- M-20-56, Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology (12/00). Final Determination date is 06/02. Current ORP date is 05/02.
- M-20-57 Submit Interim ILAW Disposal Facility Part B Permit to Ecology (12/00). Final Determination date is 08/02 and "interim" was eliminated. Current ORP date is 08/02.

Issues:

- Schedule for ILAW Disposal facility Part B processing.

- Inconsistency between Final Determination and ORP planning dates.

Planned Activities:

- Complete Project W-464 IHLW Interim Storage Facility advanced conceptual design studies and design specifications as planned for FY 2000 (O&M concept, SCT requirements, overpack welding interface study, and wind/stack and thermal analysis, and structural confirmatory analysis).
- Complete failed melter disposal strategy studies.
- Continue ILAW waste form testing for the 2001 PA.
- Complete design requirements and permitting plan for ILAW remote handled trench conceptual design.
- Evaluate FMEF or new construction as second IHLW interim storage facility.
- Finish ILAW permitting plan.

Register input

Washington Department of Ecology
Assessment of USDOE compliance status against HFFACO interim milestone M-62-01 requirements
Inter-Agency Management Integration Team meeting
August 22, 2000

Item #	Requirement	DOE response (7/31/00)	Has DOE complied with requirement?
1.	DOE Semi-annual Project Compliance Report. To be submitted Semi-annually beginning July 31, 2000.	DOE's report (with deficiencies noted below) was submitted on 7/31/00.	Yes. Report submitted on time.
2.	"DOE's Manager, Office of River Protection (ORP), will submit a " <u>Project Compliance Report</u> " to Ecology semi-annually ..."	Report submitted by Hector Rodriguez, Acting Program Manager, USDOE Office of Regulatory Liaison.	No. Report not submitted by <u>ORP Manager</u> . In addition, report does not focus on compliance status against HFFACO (Final Determination) requirements.
3.	"A copy of this Report will also be provided to EPA's Region 10 Office of Waste and Chemicals Management"	Report also addressed to Rick Albright at Region 10.	Yes
4.	"This report will document DOE compliance with Agreement requirements..."	Report informs Ecology and EPA of DOE actions, <u>but does not report compliance status against HFFACO requirements.</u>	No
5.	"The ORP Project Compliance Report will be provided as part of the parties' Inter Agency Management Integration Team (IAMIT) meetings..."	Report transmitted by letter. Copy of May 23, 2000 "Tri-Party Agreement Quarterly Milestone Review" packet attached. This packet is not based on, and does not recognize Final Determination requirements (M-62-series or otherwise).	Not addressed during July IAMIT meeting. Next IAMIT meeting scheduled for August 22, 2000.

ATTACHMENT 3

M-62-01 first semi-annual report analysis
 August 22, 2000

Item #	Requirement	DOE response (7/31/00)	Has DOE complied with requirement?
6.	"The ORP Project Compliance Report... shall document the status of progress to date..."	DOE provides its description of progress to date, progress during the period, and expected activities in the foreseeable future... but does so without contrasting progress, activities, etc against compliance requirements. DOE states its intent to "benchmark" future reports against this (first) report, but does not assess compliance status against HFFACO (Final Determination) requirements.	Only partial compliance.
7.	"The Report will include but is not limited to: (1) A concise description of project accomplishments and issues including those encountered during the previous year and those expected in the near term, ...	DOE provides its general description of project accomplishments and issues, but does so without contrasting progress, activities, etc against compliance requirements.	Only partial compliance.
8.	"(2) When applicable, a description of actions initiated or otherwise taken to recover any Agreement schedule slippage..."	DOE provides a general description of actions it is taking, but does not describe actions "taken to recover any Agreement schedule slippage"	Yes. But with little detail.
9.	"(3) A budget and cost status..."	Agreement requirement budget and cost status are not provided.	No
10.	"(4) A statement documenting whether or not DOE and DOE's contractors remain in compliance with Agreement requirements, i.e., whether or not "DOE and DOE's contractor(s) have completed sufficient work to allow achievement of Agreement requirements..."	No statement provided.	No

M-62-01 first semi annual report analysis
 August 22, 2000

Item #	Requirement	DOE response (7/31/00)	Has DOE complied with requirement?
11.	(5) Concise descriptions of any noncompliance.	No descriptions provided despite knowledge that it will not meet milestones such as M-62-05 and definition of compliance as "Compliance with the work schedules set forth in this M-62 series is defined as the performance of sufficient work to assure with reasonable certainty that DOE will accomplish series M-62 major and interim milestone requirements."	No

M-62-01 first quarterly report analysis

*M 62-06
 Start of
 construction*

Office of River Protection

Status of the River Protection Project

Bill Taylor

August 22, 2000

BNFL Transition Status



- Proceeding on schedule agreed to by BNFL and DOE.
- Receiving records from BNFL on daily basis.
- All work related to project-directed research, technology development, and demonstration activities is currently being transferred as subcontracts to CHG.
- Full and unrestricted access has been given for all Part A and PartB-1 contract deliverables.
- Facility lease arrangements, property, office equipment, computer equipment, service and maintenance agreements, and other similar items have been orderly transferred.

BNFL Transition Status (cont'd)



- BNFL has submitted a transition plan to facilitate transition.
- All work related process and facility design—materials, technical data, drawings, designs and specifications—and supporting data is in the process of being turned over to CHG; target completion for first produced data is August 24.
- A cooperative workforce transition process was effective in transitioning BNFL and subcontract employees to CHG.
- Remaining activities include buy-out of proprietary data and intellectual property by September 15, pilot melter disposition, and other related termination activities.

Status of New Contract RFP



- Draft RFP posted on internet July 31.
- Comments from offerors and public due August 14.
- Final RFP scheduled for August 30.
- Offers due September 29.
- Oral presentations complete October 13.
- Award contract January 15, 2001.

TPA Milestones (M-62 Status)



- M-62-01 (Compliance Report) Submitted July 31, on schedule.
- M-62-02 (RPP Alternatives Report) Submitted March 1, on schedule.
- M-62-03 (Petition for RCRA De-listing of HLW) BNFL submitted final IHLW de-listing approach April 18; de-listing responsibility and scope shifted to CHG on June 8.
- M-62-04T (Readiness to Proceed to Part B-2) CHG submitted final documentation of readiness to proceed on April 24; DOE review and follow-up actions were completed by June 15.

TPA Milestones Status (cont'd)



- M-62-05 (Authorization to Proceed) Secretarial Decision to terminate BNFL contract announced May 8; actual termination occurred on June 29; consent decree changed this milestone to issue final RFP for follow-on design-build contractor.
- M-62-06 (Start of Construction) Current dates of July 2001 for start of infrastructure work and December 2001 for start of facility construction may need to be changed once a new contract is established with design-build contractor in January 2001.
- M-62-09 (Hot Commissioning) and M-62-10 (Commercial Operations) Dates unchanged – stipulated in RFP for new contractor.

Summary



- Transition of BNFL's project documents is going well. Target completion of all documents produced for the first time is August 24. Intellectual property documents to be turned over by September 15.
- New RFP is on schedule. Comments on draft due Monday, August 14. Holding award on January 15, 2001.
- Project may experience some delay on the front end- DOE committed to minimize and hold hot operations date.