



U.S. Department of Energy
Office of River Protection

0054436

P.O. Box 450
Richland, Washington 99352

JAN 31 2001

01-AMPD-005

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
P. O. Box 47600
Olympia, Washington 98504

RECEIVED
FEB 14 2001

EDMC

Mr. Rick Albright, Director
Office of Waste and Chemicals Management
U. S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Addressees:

TRANSMITTAL OF THE WASTE TREATMENT PROGRAM, SEMI-ANNUAL COMPLIANCE REPORT TO FULFILL THE REQUIREMENTS OF THE HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) INTERIM MILESTONE M-62-01B

Reference: ORP letter from H. L. Boston to M .A. Wilson, Ecology, "Development of a Revised Semi-Annual Compliance Report for the Waste Treatment Program to Fulfill the Requirements of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Interim Milestone M-62-01", dated October 12, 2000 ✓

This letter transmits the attached U.S. Department of Energy (DOE), Office of River Protection (ORP) Semi-Annual Project Compliance Report in support of Tri-Party Agreement Milestone M-62-01B. This report reflects issues, activities, and accomplishments for the Waste Treatment Program for the reporting period August 1, 2000, through January 31, 2001. The outline for this report follows the format used in the revision to our initial report, which was submitted to the State of Washington Department of Ecology (Ecology) on October 12, 2000, in the above Reference. As detailed in Milestone M-62-01, this report documents ORP compliance with Tri-Party Agreement Milestone M-62-00 series requirements and provides information regarding the status of the program.

JAN 31 2001

Addressees
01-AMPD-005

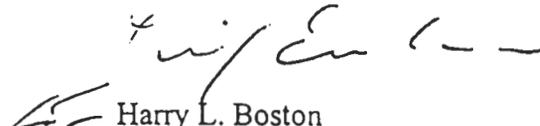
-2-

In addition to the work and progress noted within the report, ORP is submitting the latest copy of the Milestone Review packet which was submitted to the Inter-Agency Management Integration Team meeting on November 14, 2000; the November 22, 2000, information packet as distributed from the ORP Project Managers Meeting; and the September through November 2000 Monthly Progress Reports for the Tank Waste Treatment Project as submitted from CH2M HILL Hanford Group, Inc. to ORP.

Noteworthy accomplishments during this reporting period include the completion of Consent Decree Milestone D-06-01 almost one month ahead of its scheduled completion date. ORP awarded contract No. DE-AC27-01RV14136 on December 11, 2000. This contract authorizes the design, construction, and commissioning of a facility for the "Phase I Hanford Tank Waste Treatment Complex." This facility shall include all facilities necessary for the pretreatment and vitrification of no less than 10 percent of Hanford's tank wastes by mass and 25 percent by activity by February 28, 2018. The M-62-06, Start of Construction, July 31, 2001, will not be met as a result of the change in acquisition strategy, and our baseline is being updated. We anticipate requesting several Tri-Party Agreement Milestones changes later this year as information becomes available.

Please direct any questions to William J. Taylor, ORP, (509) 372-3864.

Sincerely,


Harry L. Boston
Manager

AMPD:WJT

Attachment

cc: See page 3

**Office of River Protection (ORP)
Semi-Annual Project Compliance Report
For the Waste Treatment Program
August 01, 2000 – January 31, 2001**

**Office of River Protection
2440 Stevens Drive
Richland Washington 99352
January 19, 2001**

As required by TPA Milestone M-62-01B, this second semi-annual Office of River Protection (ORP) Project *Compliance Report* reflects issues, activities, and accomplishments for ORP occurring during the reporting period of August 1, 2000 through January 31, 2001. As detailed in M-62-01, this report documents ORP's performance to date on TPA milestone M-62-00 series requirements, and provides information regarding issues, activities, and progress relative to those milestones. The report includes information pertaining to the status of progress to date, progress made during the reporting period, and activities expected in the foreseeable future.

RIVER PROTECTION PROJECT OVERVIEW:

The River Protection Project has experienced significant change from its inception in 1996. The RPP was originally structured by ORP as a phased, privatized venture to design, construct, and operate a waste treatment complex capable of treating and immobilizing Hanford's highly radioactive tank waste. This privatized initiative employed a two-step contracting approach toward achieving a viable facility design. Phase I, which was structured into two parts, involved the placement of two contracts, one with BNFL Inc., a United States subsidiary of British Nuclear Fuels plc., and the other with Lockheed Martin Advanced Environmental Systems (LMAES). DOE modified the RPP-WTP contracting structure in August 1998, authorizing BNFL Inc. to proceed into Part B-1 when LMAES was eliminated from the competition in May 1998. Part B-1 was defined by a contract modification to be a 24-month period of performance during which BNFL Inc. would finish sufficient design to allow them to proceed to financial closure, establish firm fixed unit prices, and position themselves to start construction in Part B-2. Attempts to renegotiate the TPA milestones to support the BNFL revised schedule for Part B-1 and beyond were not completed as scheduled and remain in dispute.

BNFL Inc. submitted their Part B-1 deliverables April 24, 2000 as scheduled. Although the design and technology solution presented one possible solution that appeared to meet environmental compliance, mission performance, and waste disposal requirements, but it had significant potential for optimization. The business approach however, was unacceptably conservative, with significant and unsubstantiated growth in proposed prices, and management and corporate capability to deliver the project was challenged by open questions on safety, quality and project management capacity.

ORP formally terminated the BNFL Inc. contract June 29, 2000, transitioning "care-taker" responsibilities for the Project to its primary management and operations contractor CH2MHill Hanford Group (CHG) until a new design and construction contractor could be identified and contracted to resume design and construction activities for the RPP-WTP. Pursuant to the amended Hanford Site High-Level Radioactive Waste Tank Interim Stabilization Program and Interim Stabilization Consent Decree, DOE is required to award the contract to the new design and construction contractor by January 15, 2001.

RPP-WTP Phase I was designed to treat and immobilize 10 percent of the waste and approximately 25 percent of the radioactivity of the 190 megacuries and 53 million gallons of radioactive waste stored in 177 underground storage tanks. This phase would serve as a demonstration of the elements that would be required in continuing this new contracting approach with the production scale Phase II. In Phase II, DOE envisioned that the balance of the tank waste would be processed, the immobilized HLW sent to a geologic repository, the tanks closed, and the processing facilities decontaminated and decommissioned.

PROGRESS TO DATE:

All milestones defined by the M-60-00 series were accomplished during the Part A portion of Phase I. ORP has completed two of the twelve M-62-00 series milestones. M-62-02 "Submittal of Hanford Tank Waste Alternatives Report" was completed March 1, 2000, and M-62-004T "Readiness to Proceed- Support the Phase 1 Treatment", was completed April 24, 2000 as scheduled. Additionally, pursuant to the amended Interim Stabilization Consent Decree, M-62-05, "Issuance of DOE Authorization to proceed Phase 1 Treatment", has been removed from the Hanford Federal Facilities Agreement and Consent Order (Tri-Party Agreement).

ORP announced the plans for a Request for Proposal (RFP) in the Commerce Business Daily in May 2000, held a public comment meeting June 7, 2000, and met with potential contractors in Washington, D.C. the second week in June 2000. ORP released the RFP for comment July 31, 2000. This procurement can be found at www.hanford.gov/orp/procure/solicitations/index.html or see the ORP homepage at www.hanford.gov/orp/whatsnew.html. The schedule for this acquisition was to issue a final RFP by August 31, 2000, and select the new contractor by January 15, 2001. DOE awarded the contract on December 11, 2000 and therefore these actions are complete.

ORP completed an orderly transition of the River Protection Project Waste Treatment Plant (RPP-WTP) from BNFL Inc. to CHG, including the development of a detailed transition plan, completion of pre-transition activities, hiring of 183 former BNFL Inc. and Bechtel National Inc. employees, and transition of 253 of 272 subcontractor staff. Under CHG direction, the WTP has completed those activities necessary to resume quality-affecting work (e.g., training). FY-01 planning under CHG has been completed including preparation of a resource-loaded schedule. Transition from CHG to Bechtel Washinton has started.

A draft Interim External Interface Management Plan has been released that provides guidance regarding the maintenance of external interfaces associated with the RPP-WTP during the interim design period. This document is primarily concerned with the updating and maintenance of interface control documents. The interface management structure has been simplified to include only three teams. The ICD Team responsible for authoring the ICD Interface Groups responsible for specific functional areas (e.g. waste management) and the Interface Management Team that will address global issues. ORP plans to continue the ES&H Interface meetings with the Washington Department of Ecology (Ecology) and the Washington Department of Health (Health) on an informal basis until a more comprehensive Interface Management Plan is finalized in February 2001.

The current funding needs for the Tank Farm Contractor and the Waste Treatment Contractor are shown below.

Fiscal Year (\$ in Millions)	2001	2002	2003	2004	2005	2006
Tank Farm Operations	376	376	376	376	376	376
Waste Treatment Contractor	377	690	690	690	690	690
WTP Safety Regulation	6	4	4	4	8	6
Total	759	1,070	1,070	1,070	1,074	1,072

- Projected funding captured in prime contract commitments
- Minimum funding needed to meet regulatory requirements and commitments

PROGRESS DURING THIS PERIOD:

ORP has successfully revised the contracting structure for the RPP-WTP, and has hired the Bechtel National Inc. and Washington Group International, Inc. (Bechtel Washington) team to resume design and construction activities for the waste treatment plant. ORP awarded the RPP-WTP contract to Bechtel Washington December 11, 2000, and transition activities are currently underway between CHG and Bechtel Washington. Transition activities are scheduled to be completed March 31, 2001, with authority to begin advancing the RPP-WTP design granted to Bechtel Washington by ORP on April 1, 2001.

ORP approved the Statement of Work and Fiscal Year 2001 Work Plan for CHG December 22, 2000. The Statement of Work defines the interim design services CHG will perform prior to turnover of the project to the Bechtel Washington team. The Work Plan is a resource-loaded schedule that time phases and establishes the budget for this work scope. The Statement of Work and the Work Plan are consistent, and together form the foundation for the baseline.

A draft Air-permitting Plan outlining RPP-WTP permit deliverables, critical path items, and a comprehensive schedule has been drafted. The permitting plan is integrated with the RPP-WTP project schedule. Efforts are currently underway to validate project emission estimates to support engineering evaluations of best available control technologies. Approximately half the staff working for BNFL Inc. Pretreatment elected not to transition with the Project. This loss of a vital skill mix, and manpower deficiencies in some organizations could potentially affect air-permitting schedules.

Preliminary responses to Ecology Notice of Deficiency (NODs) on the RPP-WTP Dangerous Waste Permit Application (DWPA) and regulator comments on the RPP-WTP Risk Assessment Work Plan (RAWP) were prepared and submitted to Ecology September 2001. Schedules to support dangerous waste permitting, air permitting, and risk assessment activities were also drafted. Workshops to review DWPA chapter comments with Ecology were conducted, and the RPP-WTP permitting team is currently working with Ecology to resolve these comments.

Copies of the most recent progress reports for our interim contractor are attached as Appendix C to this report. These reports provide a more comprehensive look at interim and transition activities conducted by CHG to prepare for contract turnover to the Bechtel Washington team.

STATUS OF TPA MILESTONES:

- **M-62-00 (Complete pretreatment processing and vitrification of Hanford High Level (HLW) and Low Activity (LAW) Tank Wastes)**

ORP remains committed to this activity. The completion date for this milestone will be evaluated on a continual basis as we progress with this program. We anticipate changes in interim dates, not effecting the main dates (e.g. 2007). Better information will be available later this calendar year.

- **M-62-00A (Complete pretreatment, processing and Vitrification of Hanford HLW and LAW Phase I Tank Wastes)**

As committed to in the First Amendment of the Consent Decree, paragraph XIV.A, DOE has awarded a contract to Bechtel Washington on December 11, 2000. The contract includes a schedule to meet the dates to complete the first 10% of waste processing measured by mass and 25% of waste processing measured by radioactivity by 2/28/18.

- **M-62-01 (Submit Semi-Annual Compliance Report)**

Subject report was submitted on time but not to the complete satisfaction of Ecology. On October 12, 2000, DOE submitted an update to the initial report and a response to the eleven items of purported non-compliance defined in the September 18, 2000 letter to Harry Boston from Mike Wilson.

- **M-62-02 (Submittal of Hanford Tank Waste Alternatives Report)**

This activity was completed on schedule on March 1, 2000.

- **M-62-03 (Submit DOE petition for RCRA de-listing of vitrified HLW)**

BNFL submitted the final IHLW de-listing approach on April 18, 2000. DOE has transferred this responsibility to CH2M Hill Hanford Group (CHG) who has included it in their scope of work during the transition period. The document will be transferred to the Waste Treatment Plant Contractor, Bechtel Washington during their transition period by April 30, 2001. This activity is on schedule to be completed by 12/31/06.

- **M-62-04T (Readiness to Proceed – Support to Phase I Treatment)**

This activity was completed on schedule on April 24, 2000

- **M-62-06 (Start of Construction – Phase I Treatment Complex)**

The date of July 31, 2001 will not be met as a result of the change in contracting approach. Estimates range from April 2002 to December 2002. DOE will seek adjustment for the milestone completion date through the TPA change control process. It is anticipated that Bechtel-Washington will confirm construction schedules on April 15, 2001 when they submit revisions to their baseline. DOE will review the baseline and submit a draft change package in May 2001, to renegotiate the language from milestone M-62-05 into milestones M-62-06 and M-62-07.

- **M-62-07 (Construction Progress Milestones (2) – Phase I Treatment Complex)**

This milestone is tied to M-62-05 that was deleted by the Consent Decree revision. It is anticipated that Bechtel-Washington will confirm construction schedules on April 15, 2001 when they submit revisions to their baseline. DOE will review the baseline and submit a draft change package in May 2001, to renegotiate the language from milestone M-62-05 into milestones M-62-06 and M-62-07.

- **M-62-08 (Submittal of Hanford Tank Waste Phase II Treatment Alternatives Report)**

This milestone is on schedule. The Strategic Planning Group within the ORP Office of the Assistant Manager for Integration and Control has initiated long range planning for the remainder of the Hanford waste immobilization. Efforts include proposed R&D needs, tank waste inventory projections and plant sizing options. Initial submittal is scheduled for July 31, 2005.

- **M-62-09 (Start (Hot) Commissioning)**

Phase I Treatment Complex is on schedule. This milestone is a contract requirement for the Waste Treatment Plant, reference Section F, paragraph F.1 (b) milestone M-4. The contractor is incentivised to meet or beat the start of hot commissioning by December 31, 2007.

- **M-62-10 (Start Commercial Operations – Phase I Treatment Complex)**

This milestone is not specifically referenced in the Bechtel contract because the concept of "Commercial Operation" was eliminated by the termination of the BNFL privatization contract. DOE, as the new owner of the WTP, will attain and sustain throughput of the pretreatment and LAW vitrification by December 31, 2009 and attain and sustain throughput of HLW by December 31, 2011. These dates, as described in the contract are for completion of Hot Operations, not Commercial Operation. The proposed completion of Hot Operations date for HLW (12-31-11) is inconsistent with this milestone (12-31-09). We intend to submit a change request through the TPA change control process.

- **M-62-11 (Submittal of Hanford Tank Waste Treatment Phase II Plan)**

This milestone is on schedule for completion in 2012.

- **M-62-12 (Issuance of DOE Authorization to Proceed – Phase II Treatment)**

This milestone will be negotiated in the 2012 timeframe.

ISSUES:

1. **Resolution of Concerns Regarding Milestone M-62-01**

Although DOE received verbal approval of the prior M-62-01 milestone submittal on January 10, 2001, there is no formal documentation closing out Ecology's acceptance of that deliverable.

Status: ORP staff discussed the previous submittal and this report with Mr. John Grantham on January 10, 2001. We believe that this report meets the expectations Ecology communicated.

2. Revise and Crystallize TPA Language Concerning Milestones M-62-06, M-62-07, and M-62-10

Agree on TPA language necessary for changes to milestones M-62-06, M-62-07, and M-62-10 based on the programmatic change from a privatized approach to the government-owned, contractor-operated (GOCO) approach.

Status: Discussions between DOE and Ecology have taken place in the past several months to address several issues. DOE intends to submit a change request via the TPA change request process laying to address these issues.

3. Compressed RPP-WTP Environmental Permitting Schedule Required to Meet Proposed Start of Construction Date

The RPP-WTP is on an exceedingly ambitious schedule to acquire the requisite environmental permits needed to meet the 2002 Start of Construction date proposed in the current schedule. Acquisition of these permits is predicated on the Project achieving a sufficient level of design necessary to allow for the development of these documents. It is anticipated, given the minimal amount of time needed to advance the RPP-WTP design to the level required to write the permits, that the schedule to develop and review these permits will be extremely compressed, and will require extraordinary efforts by both Project and regulatory personnel in order to prepare, review, and approve these documents by the proposed Start of Construction date.

Status: Discussions are ongoing between ORP and Ecology staff members to coordinate and provide information to support the accelerated permitting process.

PLANNED ACTIVITIES:

Formal ES&H Interface meetings with Ecology and Health are scheduled to resume February 2001.

DOE's purchase of the pilot melter in Columbia, Maryland is expected to occur by the end of the month, January 31, 2001. Continuation of pilot melter research and technology will resume as soon as Bechtel Washington awards a contract to GTS-Duratek.

Following the award of the Waste Treatment Plant design, build and commission contract to Bechtel Washington on December 11, 2000, ORP has started the transition of all engineering and other project data from CH2MHill Hanford Group to Bechtel Washington. The CHG transition plan calls for completion of the transition by February 28, 2001. Bechtel Washington is required to submit their transition/mobilization plan to ORP by February 15, 2001. ORP expects to receive the plan early such that integration of both plans can occur by the third week of January. Detailed transition activities have begun. The Bechtel-Washington team is expected to receive authorization to proceed with advancing the RPP-WTP design April 1, 2000.

APPENDIX A

Tri-Party Agreement, Quarterly Milestone Review

November 14, 2000

Tri-Party Agreement
Quarterly Milestone Review



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

November 14, 2000

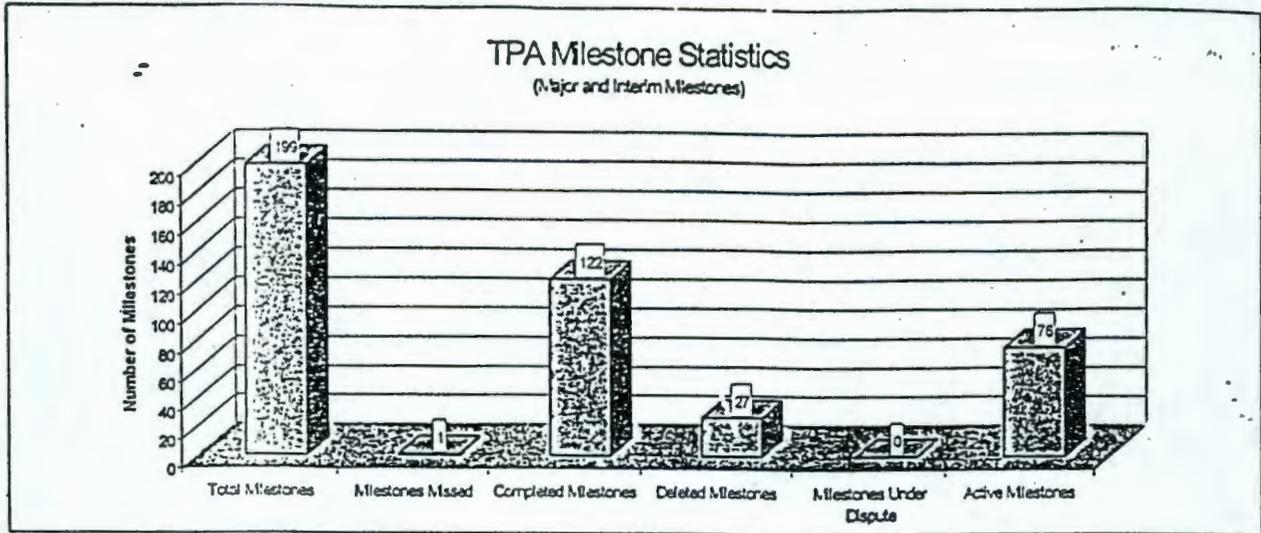
Agenda

Office of River Protection Tri-Party Agreement Quarterly Milestone Review

November 14, 2000

Topic	Leads	Time
FY 2000 ORP Tri-Party Agreement Cost & Schedule Performance	Mary Beth Burandt/Jim Rasmussen/ Suzanne Dahl	9:00
• Interim Stabilization (Consent Decree)	Dana Bryson/Wahed Abdul/Kevin DeWitt	9:15
• M-46-00, Double-Shell Tank Space Evaluation	Dana Bryson/ Russ Harwood/Tony Valero	9:30
• DST Integrity Assessment Program	Dana Bryson/Russ Harwood/Tony Valero	9:40
• M-44-00, Tank Waste Characterization	Dana Bryson/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
• Review of new commitments and actions	Mary Beth Burandt/Jim Rasmussen/ Suzanne Dahl	11:15

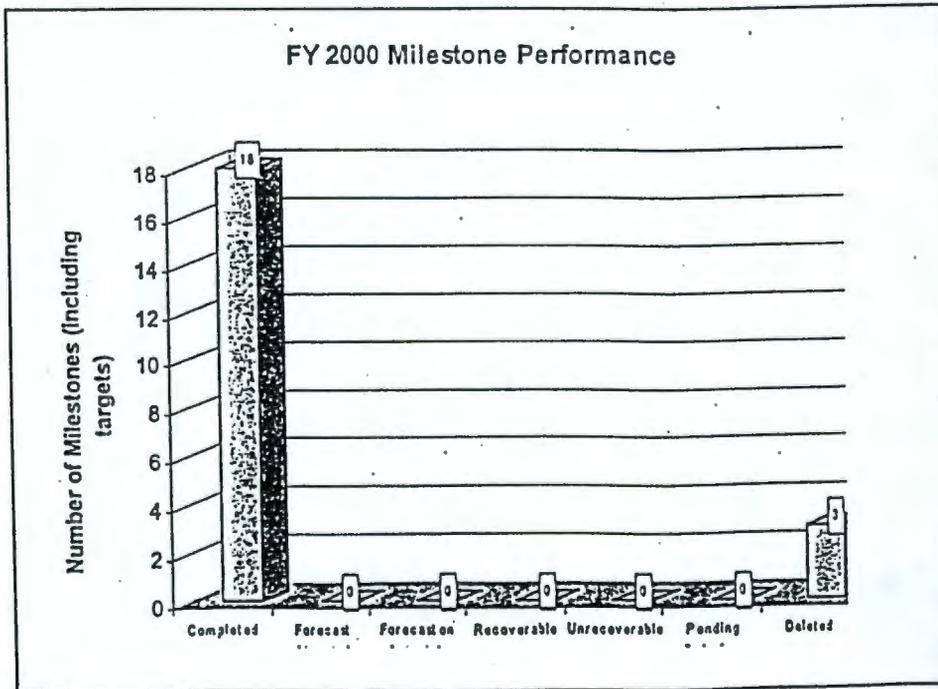
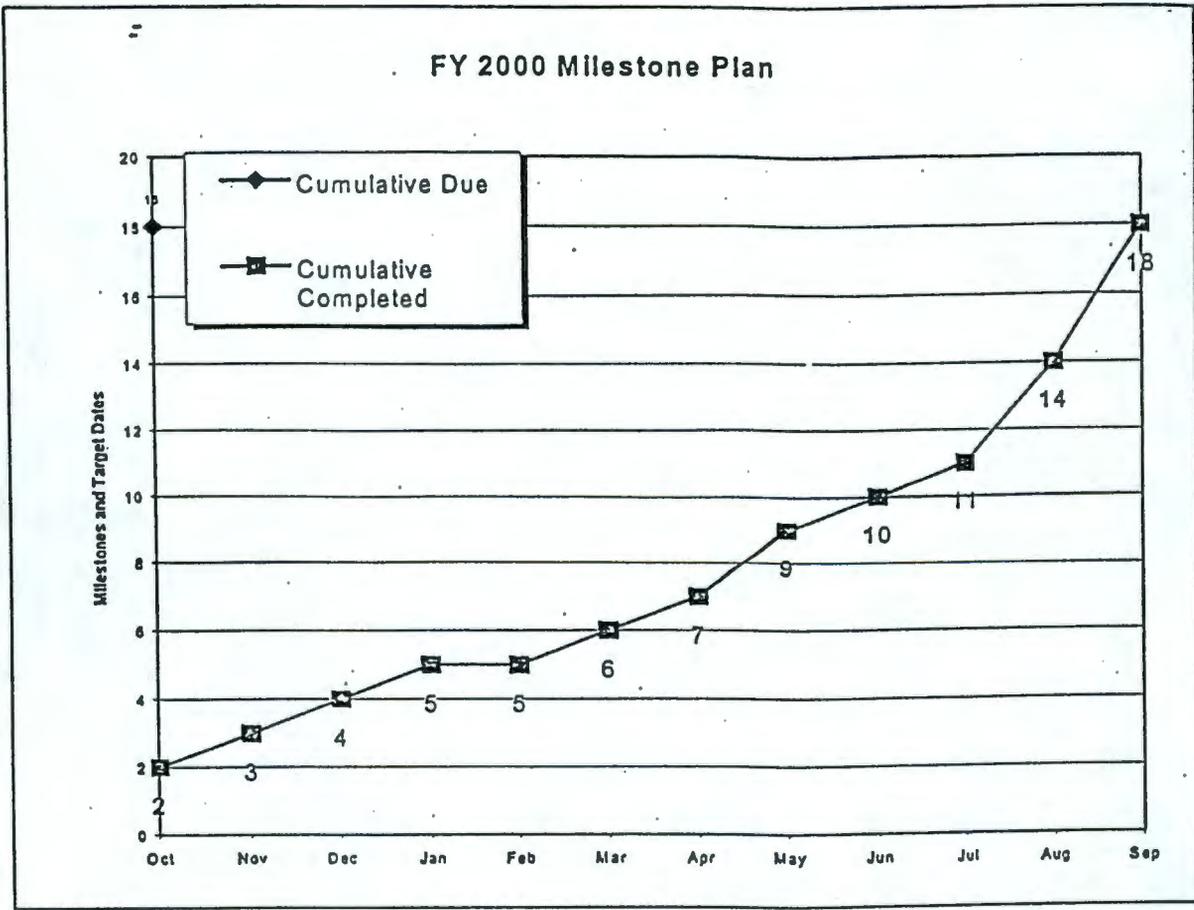
Handout on Cost/Schedule Performance to be provided at the meeting.



Milestone Description	Milestone Completion Date	Total Milestones	Milestones Completed as of 07/31/00	Milestones Deleted as of 10/1/98	Milestones Under Dispute as of 07/31/00	Milestones Active as of 07/31/00	Milestones Missed as of 07/31/00
		as of 07/31/00	as of 07/31/00	as of 07/31/00	as of 07/31/00	as of 07/31/00	as of 07/31/00
M33-00 Submit Per 8 Permit Application Closure Plan Closure Runs for all RCRA TSD Units	2/29/2004	4	1	1	0	3	0
M34-00 Supervise Tank Safety Issues for High Priority Weather Tanks	9/30/2001	19	18	1	0	1	0
M41-00 Complete Single Shot Tank Interim Substitution	9/30/2000	12	12	7	0	0	0
M42-00 Complete Tank Farm Logistics	9/30/2005	20	17	0	0	3	0
M44-00A Closure and Single Shot Tank Characterization	9/30/2002	34	26	0	0	8	0
M45-00 Complete Closure of all Single Shot Tank Farms	9/30/2004	37	18	11	0	19	1
M46-00 Closure Shot Tank Space Evaluation	9/30/2000	25	15	0	0	11	0
M50-00 Complete Management Processing of Inland Tank Wastes	9/30/2004	3	2	1	0	1	0
M51-00 Complete Assessment of Inland High Level Tank Waste	12/31/2003	3	2	0	0	1	0
M52-00 (primary path) Complete Management and Immobilization of Inland Low Activity Tank Waste	12/31/2004	127	8	0	0	119	0
M51-00 (alternate path) Complete Management and Immobilization of Inland Low Activity Tank Waste	12/31/2003	1	0	3	0	1	0
M53-00 Interim Storage and Closure of LWA and Interim Storage of HUV	TBD	6	2	2	0	4	0
M55-00 Complete Management Processing and Inland of Tank Wastes	12/31/2008	13	1	1	0	11	0
M47-00 Complete All Work for Phase I Closures	2/29/2008	9	0	0	0	9	0
Total		199	122	27	0	76	1

*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).

** 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.



*M-062-01 - ORP to Issue a Revised Compliance Report for Ecology Approval by 10/16/00, per 9/18/00 letter from Ecology.

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	6/31/00	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-48-01F	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
M-45-00A	Complete Renegotiation of Near Term Milestones	8/31/00	X						
M-82-05	Issuance of DOE Authorization to Proceed - Phase 1 Treatment	8/31/00							X

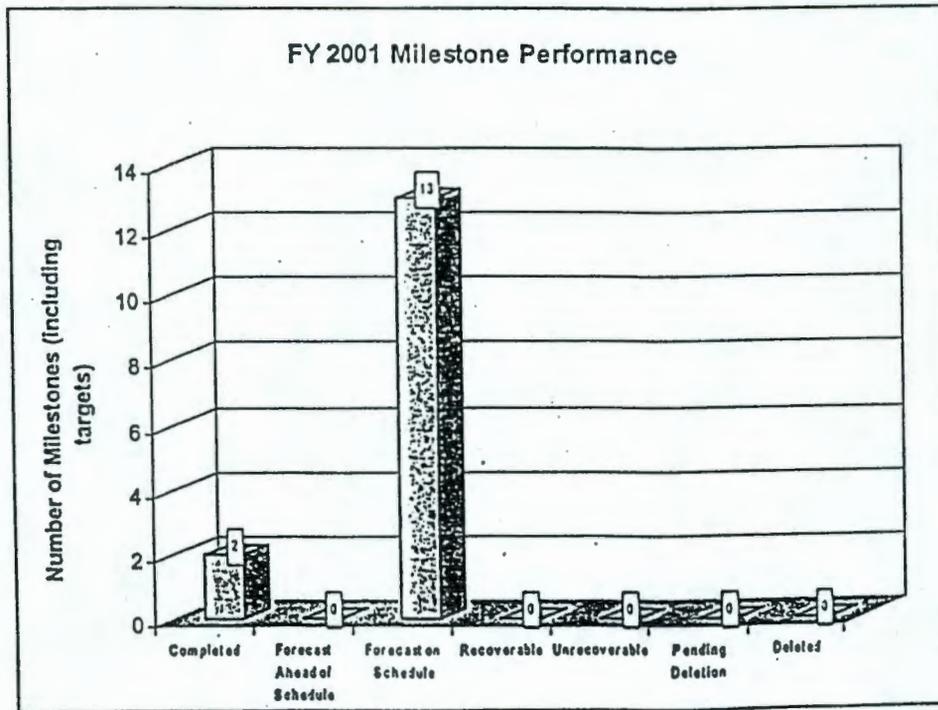
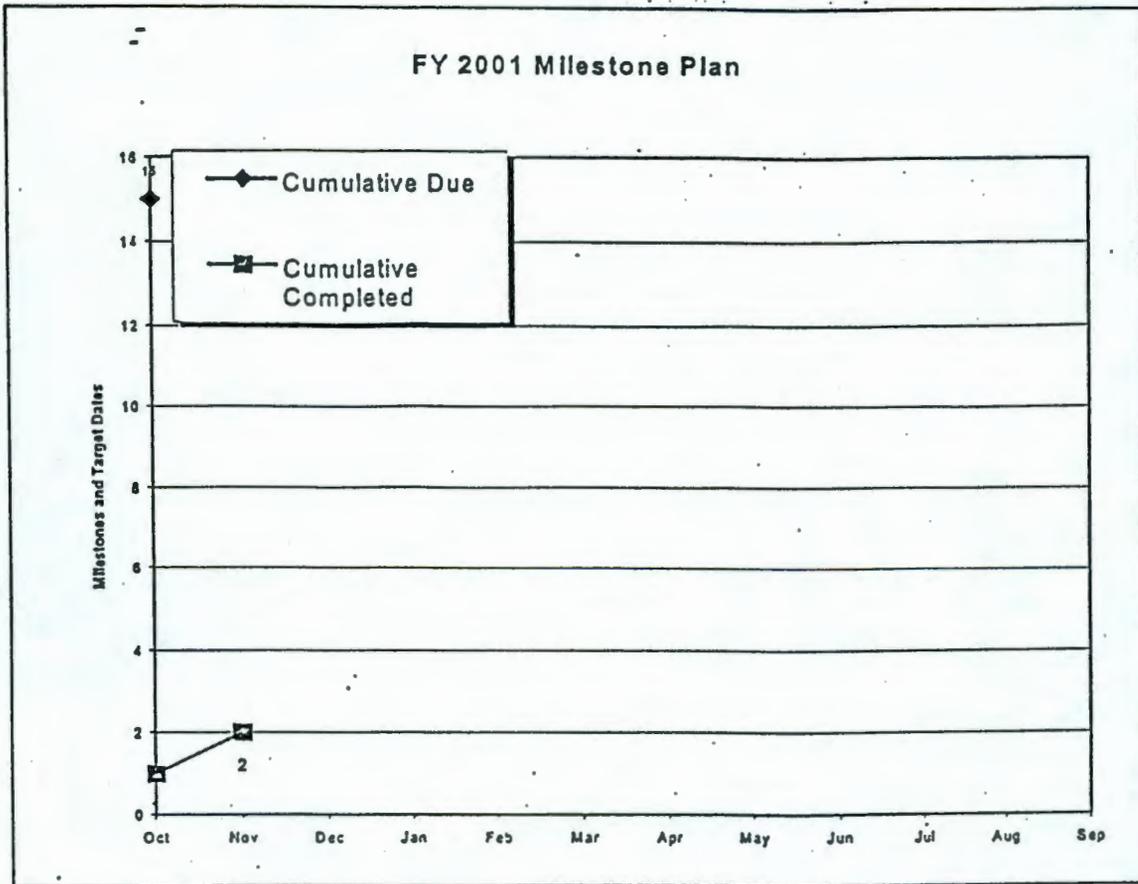
Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-45-02	Submit Annual Update of SST Retrieval Document for Approval	9/30/00	X						
M-62-01	Submit Semi-Annual Project Compliance Report*	7/31/00	X						
TOTAL			18	0	0	0	0	0	3

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-62-01

ORP to issue a revised Compliance Report for Ecology approval by 10/16/00, per 9/18/00 letter from Ecology.



Milestones – FY 2001 Performance

Fiscal Year 2001 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-46-01G	Concurrence of Additional Tank Acquisition	11/30/00	X						
P-45-54	Submit SST WMA Phase 1 RF/CMS for WMA T and WMA TX-TY	12/31/00			X				
M-62-01	Submit Semi-Annual Compliance Report	1/31/01			X				
M-62-07	Establish Construction "Progress" Milestone Dates	TBD			X				
M-43-14	Start Construction Upgrades for Third Tank Farm	3/31/01	X						
M-26-01K	Submit Annual Hanford Land Disposal Restrictions Report	4/30/01			X				
M-44-13E	Submit Draft WIRD to Ecology for FY2002	06/30/01			X				
M-62-01	Submit Semi-Annual Compliance Report	7/31/01			X				
M-62-06	Start of Construction – Phase I Treatment Complex	7/31/01					X		
M-44-14E	Submit Final WIRD to Ecology	8/31/01			X				
M-40-00	Mitigate/Resolve Tank Safety Issues	9/30/01			X				
M-44-15E	Complete Characterization Deliverables	9/30/01			X				
M-44-16E	Complete Input of Characterization Information Into Database	9/30/01			X				
M-46-00H	Double-Shell Tank Space Evaluation	9/30/01			X				
M-45-02	Start Annual Update to Retrieval Sequence Document	9/30/01			X				
TOTAL			2	0	12	0	1	0	0

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. New date for P-45-54 of March 2001 pending approval of this change package.

*M-62-01

ORP to issue a revised Compliance Report for Ecology approval by 10/16/00, per 9/18/00 letter from Ecology.

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.
- 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, SX-106, and U-103.

Completed Milestones:

- 1) D-001-06: Initiate pumping of A-101 and AX-101
- 2) D-001-00-R06: Submit Quarterly Report
- 3) D-001-01-T02: Complete Pumping of SX-104 and SX-106

Status:

- Initiated pumping on U-106 on 8/24/2000 and S-109 on 9/23/2000.
- Started the pumping for tank SX-105 on August 8, 2000.
- Pumping ongoing for tanks U-102 and U-109.
- Currently 2 tanks, S-106 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.
- 953,000 gallons of liquid waste (26%) of the projected total pumpable liquid of 3.6M-gallon has been removed.
- 282,000 gallons of organic complexant liquid waste (56%) of the projected total pumpable organic complexant liquid of 453,000 gallons is removed.

- Since the rate of pumping for organic tanks have decreased significantly, a new tank U-106 was accelerated to be pumped this year to meet the Consent Decree milestone, which is planned to August 24, 2000.
- To reduce the risk of failure of existing piping, new aboveground piping is being installed for pumping of S/SX and U farms.

Issues/Recovery:

- Lesser rate of liquid pumped compared to the earlier estimate, may indicate lesser overall total liquid volume. This has been 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.
 - Transmitted letter to Ecology to notify the above concern on organic volume milestone.

Planned Activities:

- Complete the stabilization evaluation for 2 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. Design is complete, installation completed for 3 tanks.

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

Status:

Transmitted the Operational Waste Volume Projection (OWVP) document to Ecology on September 28, 2000 to meet Milestones M-46-00G. To meet the Milestone M-46-01G: verbal agreement to have special case study #1 to Ecology by 11/17/00 with a meeting set for 11/15/00. Comments to CHG and all issues resolved by November 17, 2000. Transmit to Ecology on November 27, 2000. Ecology will make a determination to concur that DSTs are not needed and provide a letter to ORP by 11/30/00. Additional case studies will be completed by March 16, 2001.

Issues:

Based on the latest OWVP:

Current waste generation projections indicate that additional tank space may be required in the year 2010. A decision on construction of new tanks is therefore not expected to be required until 2002. The decision allows time for tank integrity testing, an assessment of DST space availability in accordance with M-45, Waste Treatment Facility feed schedules, SST retrieval volume projections, and any other pertinent information will be factored into the decision.

DST Integrity Assessment Program

Status:

Received letter from Ecology stating that the September 18, 2000 deliverables were incomplete and inaccurate. Agreed with Ecology to provide a draft submittal by November 16, 2000 with the completed documents by December 18, 2000. Ecology, CHG, and ORP met on November 13, 2000 to discuss the deliverables and the work is on schedule.

FY 2001 deliverables:

December 16, 2000 Deliverable on DST system that will not remain in use beyond June 30, 2005 is on schedule. Draft documents will be presented to Ecology on November 16, 2000.

July 18, 2001 Deliverables – On schedule.

September 30, 2001 Deliverables – On schedule.

Issues:

The need by CHG, Ecology, and ORP to work together more closely on the deliverables. Good review of the draft deliverables may determine deficiencies that can be corrected prior to transmittal.

Milestone M-44-00A, Complete Delivery of Information Requirements as Identified in the Annually Submitted Waste Information Requirements Document (WIRD)

Status:

- Completed two core samples from Tank SY-102
- Completed grab samples from Tank SY-102 and TX-244
- Sampling Status in the following is as of November 10, 2000.

	Tank	Sample	MYWP FY 01
	<u>Scheduled/Completed</u>	<u>Scheduled/Completed</u>	<u>Sampling Baseline</u>
Core	1/1	1/1	10
Grab	2/2	2/2	14
Vapor	0/0	0/0	6

- Completed and submitted the FY 2000 Fourth Quarterly Report on October 24, 2000.
- A total of 12 Tank Characterization Reports is planned for FY 2001.
- PCB DQO Development: A meeting is scheduled for November 15, 2000 to discuss PCB issues.
- Regulatory DQO Test Plan Status: The test plan prepared by PNNL is under ORP review. It is expected to be completed by early December. Shipment of sample from Tank 241-AN-102 to PNNL has been scheduled for 11/9/00, 11/13/00, 11/15/00, and 11/17/00. Half of the requested sample from Tank AP-101 was shipped to PNNL on 11/06/00. The other half is planned for shipment in December 2000.

Issues:

- No issues to report.

Planned Activities:

- M-44-13E: Submit draft WIRD to Ecology for FY 2002; due date 6/30/01.
- M-44-14E: Submit final WIRD for FY 2002 to Ecology; due date 8/31/01.
- M-44-15E: Complete characterization deliverables consistent with WIRD developed for FY 2001; due date 9/30/01.
- M-44-16E: Complete Input of Characterization Information for HLW Tanks for which Sampling and Analysis was Completed Per the FY 2000 WIRD, into an Electronic Database; due date 9/30/01.

**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.
- Reviewing contractor closure document for SY-101.

Issue:

- None.

Planned Activities:

- None.

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

Status:

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).

M-45-00A (00-06) milestone negotiations concluded 8/30/00 and ORP is working to these milestones.

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.

Near-Term Milestones:

M-45-03-T03 (12/30/01) Submit S-112 Saltcake Waste Retrieval Technology Demonstration Functions and Requirements Document.

- Work has initiated on revising the requirements document completed for S-103 in FY 00 for use on S-112
- Work initiation on the RPE has been authorized with a kickoff meeting scheduled for 11/14/00

M-45-03G (6/30/04) Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration

- Vendor contract for development and delivery of equipment is in-process
- Acquisition of Hanford testing facilities is currently in requirements definition phase

M-45-03H (9/30/04) Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Design

- In-process of resolving engineering uncertainties from FY 2000 Preliminary Engineering Report
- Performing studies and assessments of field conditions to support Initiation of Conceptual Design
- Preparing CD-1 Data Package

M-45-05-T16 (10/30/02) Submit S-102 Initial Waste Retrieval Functions and Requirements Document

- Work has initiated on defining retrieval systems requirements and F&R document development

- Work initiation on the RPE has been authorized with a kickoff meeting scheduled for 11/14/00
- Procurement process initiated to secure A&E services for LDMM concepts
- Workshop scheduled for November 16th and 17th to define proof of concept test objectives supported by TFA

M-45-06-T05 (6/30/02) Submit Tank Farm Closure/Post-Closure Workplan Update

- Work initiated on defining document update scope and content
- Initial meeting held with Ecology on October 25th to obtain concurrence and input on update scope

M-45-12-T01(2/28/02) Submit An Options Report Documenting DOE Assessment Of Actions That Could Be Taken To Increase Available Tank Space for SST Waste Retrieval

Workshop scheduled on November 29th and 30th to scope and identify options for assessment

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.

Ongoing Activities:

Public Involvement on M45-00A commenced October 2, 2000. Notification of public was done through direct mailings and a media announcement (Oct. 1).

Funding for balance of scope contained in M45-00A signed Oct. 3 as part of August 4th rebaselining. SST BCR provides for funds through '01 as CHG locating funds for outyear activities (BCR will be provided).

Draft PI for SST developed. HQ reviewed PI and supports effort. Scope includes:

- Draft for tanks S-112 and C104 to submit to Ecology by April 30, 2001 (milestone Dec 2001)
- Update to SST closure workplan based on data from VZ RFI/CMS, RPE, AX104
- Option report assessing activities to increase compliant task space (3/21/01)
- Procurement strategy for a design requirement for SST retrieval and leak detection W/I Cold Test Facility
- Conceptual Designs for C-104 retrieval (9/28/01).

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 held a meeting August 9th, 2000 to resolve comments on this work plan. DOE addressed Ecology's comment and a formal response outlining the resolution of Ecology's comment has been drafted and will be forwarded to Ecology.

M-45-56: Ecology and DOE met in August 2000 to assess progress and discuss implementation of interim measures. DOE briefed Ecology on interim measures planned for FY 2001. Ecology agreed to send a letter to DOE/ORP expressing support for the interim measures planned.

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 staff on several occasions by letter to approve modifications to three proposed milestone dates, which Ecology staff agreed to. DOE is currently awaiting written Ecology approval to changes in the proposed milestone dates. 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 was completed the week of August 7, 2000.

M-45-53: Work is underway to implement plans for fieldwork in WMA B-BX-BY, which is scheduled to start in FY 2001.

M-45-54: Initial decision-maker interviews were conducted in Sept. 2000 to start the DQO process to support the site-specific work plan addenda for T/TX-TY, which will continue in FY 2001.

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. This completes proposed milestone M-45-50. TFR addendum for A, AX, B, BX, BY, C, S, S, SX, T, TX, TY, and U were delivered to Ecology in September 2000. ORP will be implementing a geophysical monitoring program in FY 2001 to follow the completion of the spectral gamma logging baseline for SSTs.

Milestone M-47-00, Complete Work Necessary to Support Acquisition And Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities

Status:

- M-47-01, Complete construction of the transfer system from the 241-AP Tank Farm to the BNFL Facility to support the start of hot commissioning of the Phase I Tank Waste Treatment Complex by 3/31/06 – DOE is on schedule to complete as required.
- M-47-02, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex by 3/31/07 – DOE is on schedule to complete as required.
- M-47-03, Start construction of waste retrieval and mobilization systems for selected initial high-level waste feed tank by 7/30/04 – DOE is on schedule to complete as required.
- M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank by 2/28/07 - DOE is on schedule to complete as required.
- M-47-04, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex by 6/30/07 – DOE is on schedule to complete as required.
- M-47-05, Start construction of waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 and AZ-102) by 5/31/04 – DOE is on schedule to complete as required.
- M-47-05A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102) by 4/30/06. – DOE is on schedule to complete as required.
- M-47-06, Complete negotiation of additional agreement requirements (Milestones, Target Dates, and Associated Language) governing work necessary to support completion of treatment complex Phase I operations by 2018 by 6/30/10. Negotiations are not yet underway.

- M-62-09, Start (Hot) Commissioning – Phase I Treatment Complex is on schedule. This milestone has been stipulated in the RFP for the Waste Treatment Plant, reference Section F, paragraph F.1 (b) milestone M-4. The contractor is incentivised to meet or beat the start of hot commissioning by December 31, 2007.
- M-62-10, Start Commercial Operations – Phase I Treatment Complex. This milestone is not specifically referenced in the RFP because the concept of "Commercial Operation" was eliminated by the termination of a "commercial" enterprise. DOE, as the new owner of the WTP, will attain and sustain throughput of the pretreatment and LAW vitrification by December 31, 2009 and attain and sustain throughput of HLW by December 31, 2011. These dates, as described in the RFP are for completion of Hot Operations, not Commercial Operation. The proposed completion of Hot Operations date for HLW (12-31-11) is inconsistent with this milestone (12-31-09).
- M-62-11, Submittal of Hanford Tank Waste Treatment Phase II Plan. This milestone is on schedule for completion in 2012.
- M-62-12, Issuance of DOE Authorization to Proceed – Phase II Treatment. This milestone will be negotiated in the 2012 timeframe.

Issues:

- Following successful signing of the First Revision to the Consent Decree, remaining Final Determination issues needs to be the top priority for all TPA managers.
- There are three issues currently being worked with BNFL: intellectual property rights discussions are restraining progress on release of glass formulation data prepared by GTS-Durateck; getting adequate, auditable cost proposals for the pilot melter purchase has been difficult; getting closure on intellectual property associated with design media is progressing slowly.

Planned Activities:

- Completing all termination activities with BNFL such that all information prepared by BNFL is transferred to CHG so that they in turn can prepare for transfer to the new WTP contractor. This activity is progressing on the schedule defined by ORP.
- DOE's purchase of the pilot melter in Columbia, Maryland will be expedited so that CHG can continue with the melter R&D plan.
- Source Evaluation Board will continue to keep the procurement activity on track for award of a contract by January 15, 2001.

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-90-00, Complete Acquisition of New Facilities.....

Final Determination Date: To be established 9 months after approval of Project Management Plan.

Current ORP Date: As specified in the FY 2001 MYWP.

- M-90-08, Initiate ILAW Disposal Facility Construction.

Final Determination Date: 3/30/04

Current ORP Date: 4/1/05

- M-90-09-T01, Complete ILAW Facility Detailed Design.

Final Determination Date: 3/30/04

Current ORP Date: 3/31/05

- M-90-10, Initiate Placement of ILAW Waste Canisters in ILAW Disposal Facility

Final Determination Date: 1/31/07

Current ORP Date: 2/6/08

- M-90-11, Complete Canister Storage Facility Construction

Final Determination Date: 2/01/07

Current ORP Date: 5/5/08

- M-20-00, Submit Part B Permit Applications.....

Final Determination Date: 2/28/04

Current ORP Date: As specified in 2001 MYWP

- M-20-56 Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology.

Final Determination Date: 6/30/02

Current ORP Date: 5/30/02

APPENDIX B

Tri-Party Agreement, Project Managers Meeting

November 22, 2000

Tri-Party Agreement
Project Managers' Meeting



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

November 22, 2000

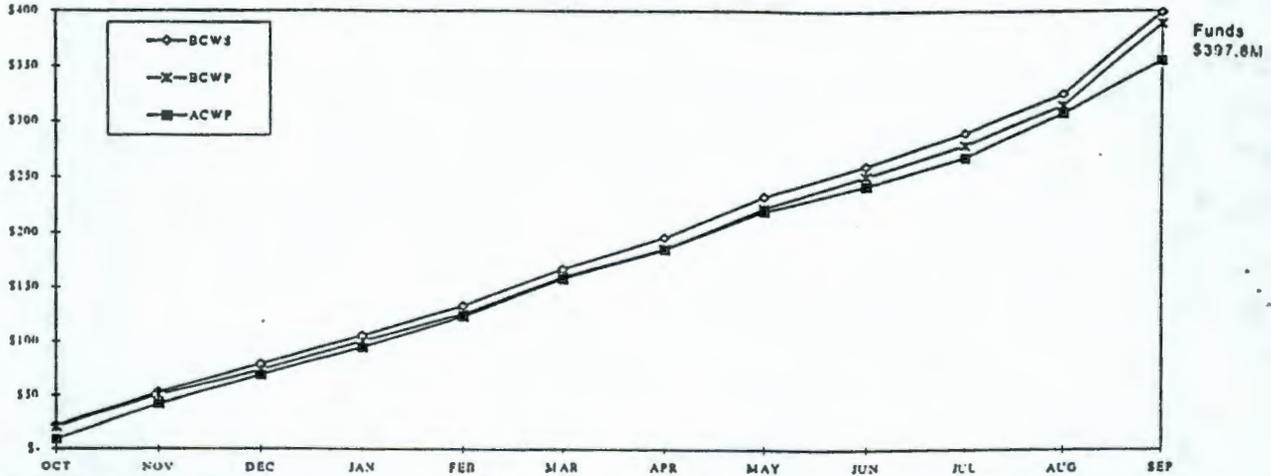
Agenda

Office of River Protection Tri-Party Agreement Project Managers' Meeting

November 22, 2000

Topic	Leads	Time
FY 2000 ORP Tri-Party Agreement Cost & Schedule Performance	Mary Beth Burandt/Mark Riess/ Suzanne Dahl/Melinda Brown	9:00
• Interim Stabilization (Consent Decree)	Wahed Abdul/Kevin DeWitt	9:15
• M-46-00, Double-Shell Tank Space Evaluation	Russ Harwood/Melinda Brown	9:30
• DST Integrity Assessment Program	Russ Harwood/Melinda Brown	9:40
• M-44-00, Tank Waste Characterization	Wen-Shou Liou/Debra Singleton	9:45
• M-40-00, Safety Issue Resolution	Dennis Irby/Kevin DeWitt	9:55
• M-45-00, Single-Shell Tank Closure	Bob Lober/Suzanne Dahl	10:05
• M-45-50, 60 Single-Shell Tank Corrective Action	Rob Yasek/Stan Leja	10:20
• M-43-00, Tank Farm Upgrades	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	Phil LaMont/Suzanne Dahl	11:00
• Review of new commitments and actions	Mary Beth Burandt/Mark Riess/ Suzanne Dahl/Melinda Brown	11:15

**FY 2000 Total Cost/Schedule Performance - All Fund Types
(Including All Direct Funded Activities)
Cumulative to Date Status (Dollars in Millions)**

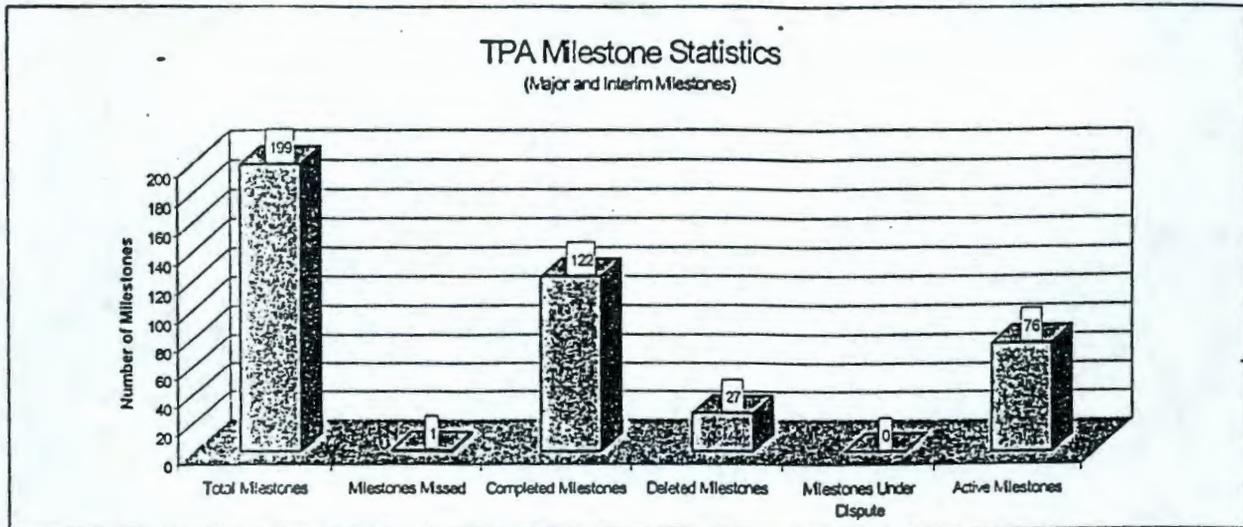


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BCWS	22.0	53.7	79.2	108.0	123.5	166.8	195.3	232.2	260.2	289.5	325.0	399.0
BCWP	20.4	50.7	73.6	100.9	125.9	159.4	185.5	221.9	251.1	278.1	314.8	388.5
ACWP	8.8	42.3	69.1	95.1	122.9	157.5	184.5	218.8	242.2	267.3	307.3	354.9
SV	(1.6)	(3.0)	(5.6)	(5.1)	2.4	(7.2)	(9.8)	(10.3)	(9.1)	(11.4)	(10.4)	(10.5)
CV	11.6	8.4	4.5	5.8	3.0	1.9	1.0	3.3	8.9	10.8	7.3	33.6
SV%	(8.8%)	(5.4%)	(7.0%)	(5.1%)	(5.4%)	(4.3%)	(5.0%)	(4.5%)	(3.5%)	(4.0%)	(3.2%)	(2.6%)
CV%	57.1%	15.9%	6.1%	5.8%	2.4%	1.2%	50.0%	1.5%	3.5%	3.9%	2.3%	8.7%

**FY 2000 Total Cost/Schedule Performance - All Fund Types
(Including All Direct Funded Activities)
Cumulative Status to Date (Dollars in Millions)**

PERF-SEPT00(ALLFT)	10/31/00	FISCAL YEAR TO DATE							ANNUAL DATA	
		BUDGET COST		ACTUAL COST	VARIANCE				CURRENT BAC	FUNDING
		WORK SCHED	WORK PERF	WORK PERF	SCHED	SCHED % ¹	COST	COST % ¹		
TW01	TANK WASTE CHARACTERIZATION	34.5	33.6	29.5	(0.9)	(2.5) %	4.1	12.3 %	34.5	30.4
TW02	TANK SAFETY ISSUE RESOLUTION	24.7	23.7	21.1	(1.0)	(4.0) %	2.6	10.9 %	24.7	23.6
TW03	TANK FARM OPERATIONS	142.1	137.1	136.9	(5.0)	(3.6) %	0.2	0.1 %	142.1	131.8
	W-058 - Cross Site Xfer - LI	0.0	0.0	(0.1)	0.0	0.0 %	0.1	0.0 %	0.0	(0.1)
	W-314 - TF Rest'n - LI	23.1	21.0	19.5	(2.1)	(9.1) %	1.5	6.6 %	23.1	21.3
	TOTAL OPS	165.3	158.0	156.3	(7.2)	(4.3) %	1.7	1.1 %	165.2	153.0
TW04	RETRIEVAL	52.5	51.5	47.0	(1.0)	(1.9) %	4.5	8.7 %	52.5	49.4
	W-211 - Init Tank Rel'vl Sys-LI	6.0	6.0	5.1	0.0	0.0 %	0.9	15.2 %	6.0	14.8
	TOTAL RETRIEVAL	58.5	57.5	52.1	(1.0)	(1.7) %	5.4	9.5 %	58.5	64.2
TW05	PROCESS WASTE SUPPT	11.3	11.3	10.5	0.0	0.0 %	0.8	7.6 %	11.3	10.8
TW08	PRIVAT'ZN INFRASTRUCTURE	2.5	2.5	1.8	0.0	(0.8) %	0.7	25.9 %	2.5	2.6
	W-319 - Priv Infra Spt -LI	11.4	11.4	9.4	0.0	0.0 %	2.0	17.8 %	11.4	18.1
	TOTAL INFRASTRUCTURE	13.6	13.9	11.2	0.0	(0.1) %	2.7	19.2 %	13.8	18.7
TW09	IMMOBILIZED TANK WASTE	9.0	8.9	7.9	(0.1)	(0.3) %	1.0	11.9 %	9.0	8.3
TW10	RPP MANAGEMENT SUPPORT	48.5	48.1	43.7	(0.4)	(0.8) %	4.4	9.1 %	48.5	44.6
	TOTAL EXPENSE/CENRTC	325.1	316.7	298.4	(8.4)	(2.6) %	18.3	5.8 %	325.1	309.1
	TOTAL LINE ITEM	40.5	38.4	34.0	(2.1)	(5.2) %	4.4	11.6 %	40.5	52.2
	TOTAL RPP - W/O TW06	365.6	355.1	332.4	(10.5)	(2.9) %	22.7	6.4 %	365.6	361.3
TW06	PRIVAT'ZN PHASE I	33.4	33.4	22.5	0.0	0.0 %	10.9	32.5 %	33.4	36.5
	TOTAL EXPENSE/CENRTC	358.5	350.1	320.9	(8.4)	(2.3) %	29.2	8.3 %	358.5	345.6
	TOTAL LINE ITEM	40.5	38.4	34.0	(2.1)	(5.2) %	4.4	11.6 %	40.5	52.2
	TOTAL RPP - W/TW06	399.0	388.5	354.9	(10.5)	(2.6) %	33.6	8.7 %	399.0	397.8

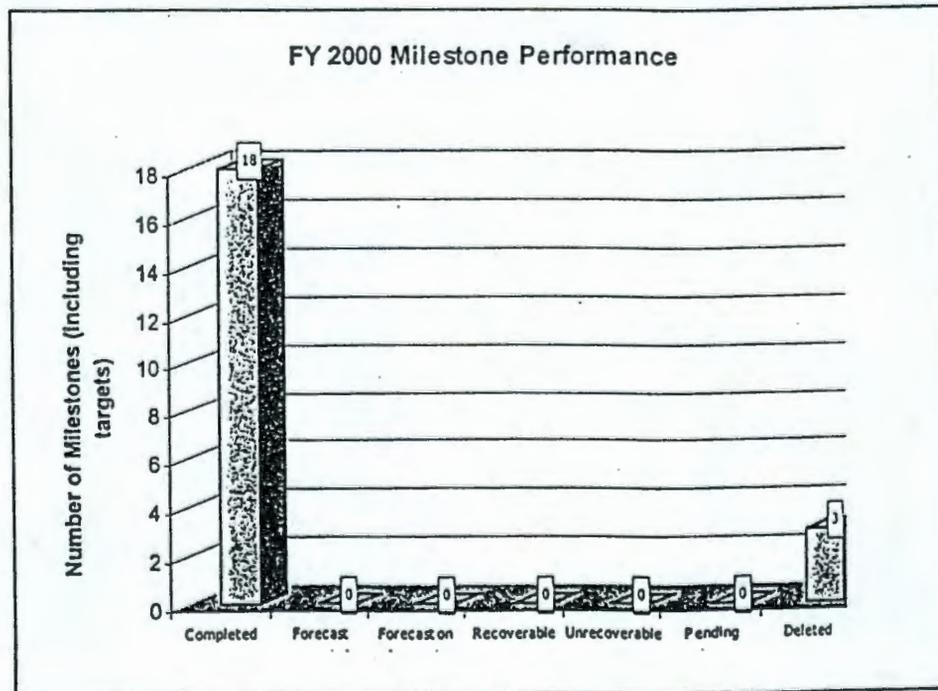
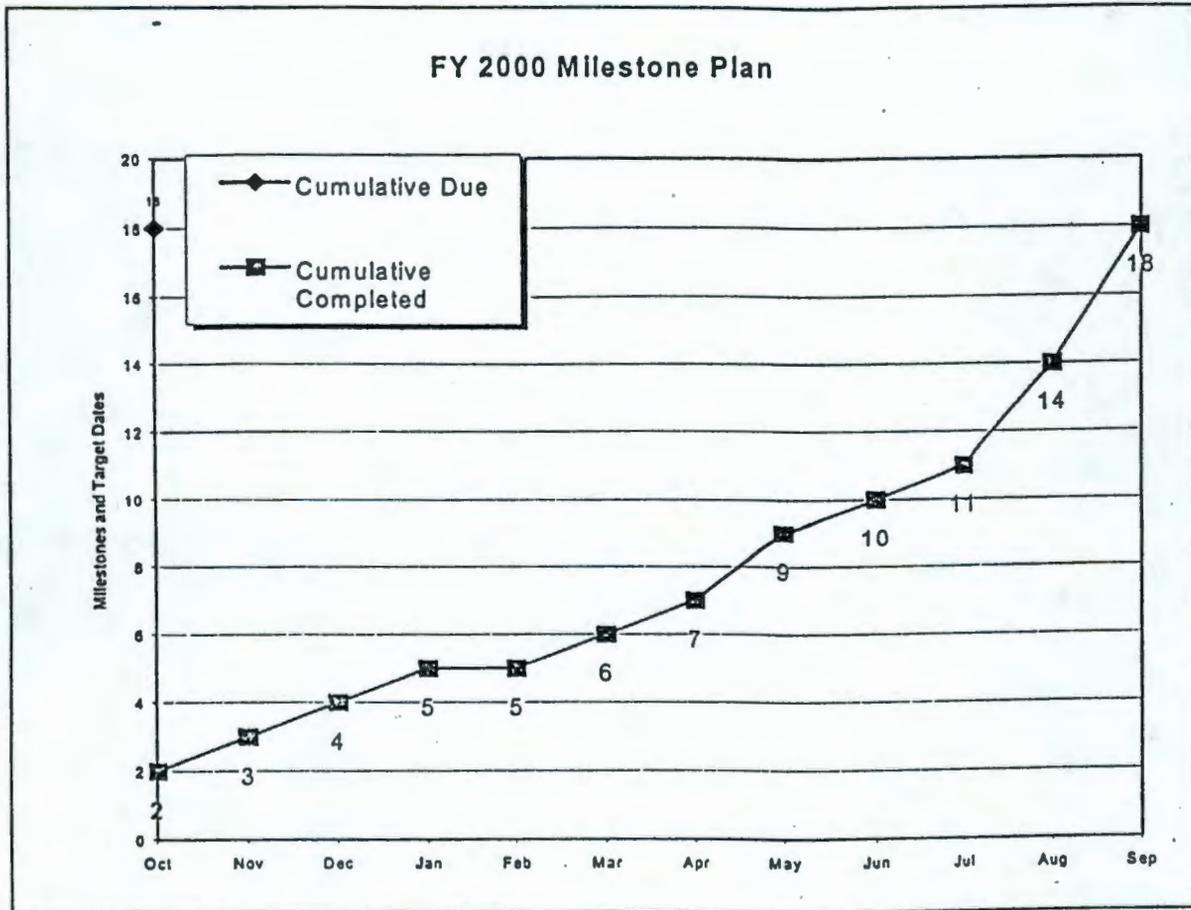
¹ Schedule and Cost variance percentages are calculated based on \$ in thousands.



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
M120-00 Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	2/29/2004	4	1	1	0	3
M140-00 Verify/Resubmit Tank Safety issues for High Priority/Washed Tanks	9/07/2001	19	18	1	0	1
M141-00 Complete Single Shell Tank Intern Substitution	9/07/2000	12	12	7	0	0
M143-00 Complete Tank Farm Upgrade	6/09/2005	20	17	0	0	3
M144-00A Complete and Single Shell Tank Characterization	9/07/2002	34	26	0	0	8
M145-00 Complete Closure of all Single Shell Tank Farms	9/07/2004	37	18	11	0	19
M145-00 Complete Single Shell Tank Spill Substitution	9/07/2003	26	15	0	0	11
M150-00 Complete Management Processing of Herford Tank Wastes	9/07/2004	3	2	1	0	1
M151-00 Complete Verification of Herford High-Level Tank Waste	12/31/2008	3	2	0	0	1
M160-00 (primary path) Complete management and immobilization of Herford Low Activity Tank Waste	12/31/2004	(12)	8	0	0	(4)
M161-00 (alternate path) Complete management and immobilization of Herford Low Activity Tank Waste	12/31/2008	1	0	3	0	1
M180-00 Interim Storage and Disposal of LHW and Interim Storage of HLW	TBD	6	2	2	0	4
M182-00 Complete management Processing and Immobilization of Tank Wastes	12/31/2016	13	1	1	0	11
M187-00 Complete all Work for Phase 1 Consents	2/29/2018	9	0	0	0	9
Total		199	122	27	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).

** 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.



*M-062-01 – ORP to Issue a Revised Compliance Report for Ecology Approval by 10/16/00, per 9/18/00 letter from Ecology.

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
M-45-00A	Complete Renegotiation of Near Term Milestones	8/31/00	X						
M-62-05	Issuance of DOE Authorization to Proceed - Phase 1 Treatment	8/31/00							X

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-45-02	Submit Annual Update of SST Retrieval Document for Approval	9/30/00	X						
M-62-01	Submit Semi-Annual Project Compliance Report*	7/31/00	X						
TOTAL			18	0	0	0	0	0	3

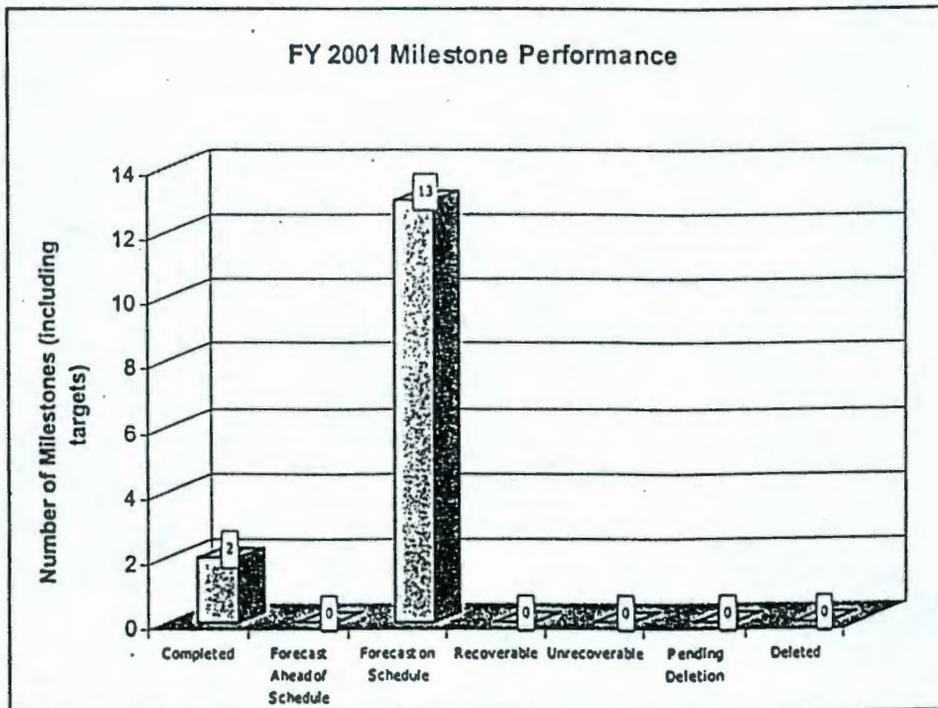
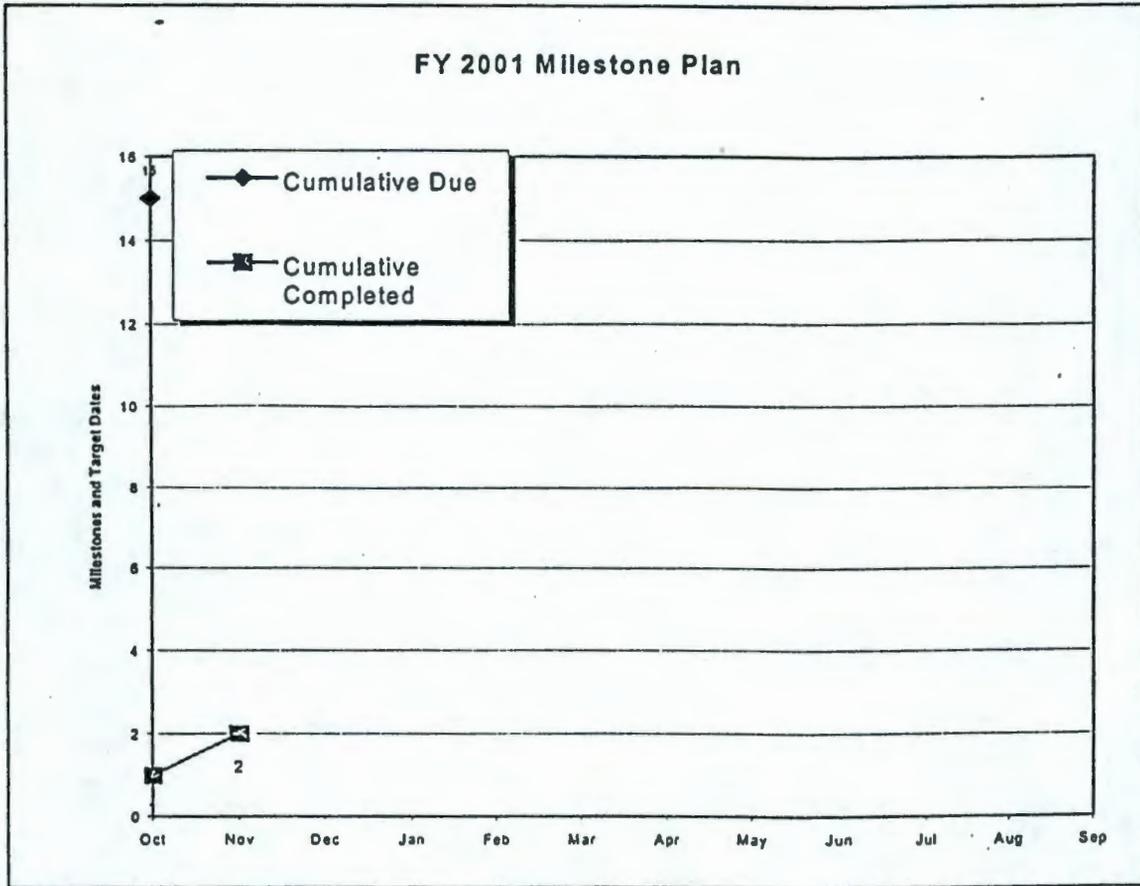
Change Request M-45-98-03
SST Corrective Action
Groundwater/Vadose Zone

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

*M-62-01

ORP to issue a revised Compliance Report for Ecology approval by 10/16/00, per 9/18/00 letter from Ecology.

Milestones - FY 2001 Performance



Milestones – FY 2001 Performance

Fiscal Year 2001 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-46-01G	Concurrence of Additional Tank Acquisition	11/30/00	X						
P-45-54	Submit SST WMA Phase 1 RFI/CMS for WMA T and WMA TX-TY	12/31/00			X				
M-62-01	Submit Semi-Annual Compliance Report	1/31/01			X				
M-62-07	Establish Construction "Progress" Milestone Dates	TBD			X				
M-43-14	Start Construction Upgrades for Third Tank Farm	3/31/01	X						
M-26-01K	Submit Annual Hanford Land Disposal Restrictions Report	4/30/01			X				
M-44-13E	Submit Draft WIRD to Ecology for FY2002	06/30/01			X				
M-62-01	Submit Semi-Annual Compliance Report	7/31/01			X				
M-62-06	Start of Construction – Phase I Treatment Complex	7/31/01					X		
M-44-14E	Submit Final WIRD to Ecology	8/31/01			X				
M-40-00	Mitigate/Resolve Tank Safety Issues	9/30/01			X				
M-44-15E	Complete Characterization Deliverables	9/30/01			X				
M-44-16E	Complete Input of Characterization Information into Database	9/30/01			X				
M-46-00H	Double-Shell Tank Space Evaluation	9/30/01			X				
M-45-02	Start Annual Update to Retrieval Sequence Document	9/30/01			X				
TOTAL			2	0	12	0	1	0	0

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. New date for P-45-54 of March 2001 pending approval of this change package.

*M-62-01

ORP to issue a revised Compliance Report for Ecology approval by 10/16/00, per 9/18/00 letter from Ecology.

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.
- 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, SX-106, and U-103.

Completed Milestones:

- 1) D-001-06: Initiate pumping of A-101 and AX-101
- 2) D-001-00-R06: Submit Quarterly Report
- 3) D-001-01-T02: Complete Pumping of SX-104 and SX-106

Status:

- Initiated pumping on U-106 on 8/24/2000 and S-109 on 9/23/2000.
- Started the pumping for tank SX-105 on August 8, 2000.
- Pumping ongoing for tanks U-102 and U-109.
- Currently 2 tanks, S-106 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.
- 953,000 gallons of liquid waste (26%) of the projected total pumpable liquid of 3.6M-gallon has been removed.
- 282,000 gallons of organic complexant liquid waste (56%) of the projected total pumpable organic complexant liquid of 453,000 gallons is removed.

- Since the rate of pumping for organic tanks have decreased significantly, a new tank U-106 was accelerated to be pumped this year to meet the Consent Decree milestone, which is planned to start August 24, 2000.
- To reduce the risk of failure of existing piping, new aboveground piping is being installed for pumping of S/SX and U farms.

Issues/Recovery:

- Lesser rate of liquid pumped compared to the earlier estimate, may indicate lesser overall total liquid volume. This has been 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.
 - Transmitted letter to Ecology to notify the above concern on organic volume milestone.

Planned Activities:

- Complete the stabilization evaluation for 2 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. Design is complete, installation completed for 3 tanks.

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

Status:

Transmitted the Operational Waste Volume Projection (OWVP) document to Ecology on September 28, 2000 to meet Milestones M-46-00G. To meet the Milestone M-46-01G: verbal agreement to have special case study #1 to Ecology by 11/17/00 with a meeting set for 11/15/00. Comments to CHG and all issues resolved by November 17, 2000. Transmit to Ecology on November 27, 2000. Ecology will make a determination to concur that DSTs are not needed and provide a letter to ORP by 11/30/00. Additional case studies will be completed by March 16, 2001.

Issues:

Based on the latest OWVP:

Current waste generation projections indicate that additional tank space may be required in the year 2010. A decision on construction of new tanks is therefore not expected to be required until 2002. The decision allows time for tank integrity testing, an assessment of DST space availability in accordance with M-45, Waste Treatment Facility feed schedules, SST retrieval volume projections, and any other pertinent information will be factored into the decision.

DST Integrity Assessment Program

Status:

Received letter from Ecology stating that the September 18, 2000 deliverables were incomplete and inaccurate. Agreed with Ecology to provide a draft submittal by November 16, 2000 with the completed documents by December 18, 2000. Ecology, CHG, and ORP met on November 13, 2000 to discuss the deliverables and the work is on schedule.

FY 2001 deliverables:

December 16, 2000 Deliverable on DST system that will not remain in use beyond June 30, 2005 is on schedule. Draft documents will be presented to Ecology on November 16, 2000.

July 18, 2001 Deliverables – On schedule.

September 30, 2001 Deliverables – On schedule.

Issues:

The need by CHG, Ecology, and ORP to work together more closely on the deliverables. Good review of the draft deliverables may determine deficiencies that can be corrected prior to transmittal.

Milestone M-44-00A, Complete Delivery of Information Requirements as Identified in the Annually Submitted Waste Information Requirements Document (WIRD)

Status:

- Completed two core samples from Tank SY-102
- Completed grab samples from Tank SY-102 and TX-244
- Sampling Status in the following is as of November 10, 2000.

	Tank	Sample	MYWP FY 01
	<u>Scheduled/Completed</u>	<u>Scheduled/Completed</u>	<u>Sampling Baseline</u>
Core	1/1	1/1	10
Grab	2/2	2/2	14
Vapor	0/0	0/0	6

- Completed and submitted the FY 2000 Fourth Quarterly Report on October 24, 2000.
- A total of 12 Tank Characterization Reports is planned for FY 2001.
- PCB DQO Development: A meeting is scheduled for November 15, 2000 to discuss PCB issues.
- Regulatory DQO Test Plan Status: The test plan prepared by PNNL is under ORP review. It is expected to be completed by early December. Shipment of sample from Tank 241-AN-102 to PNNL has been scheduled for 11/9/00, 11/13/00, 11/15/00, and 11/17/00. Half of the requested sample from Tank AP-101 was shipped to PNNL on 11/06/00. The other half is planned for shipment in December 2000.

Issues:

- No issues to report.

Planned Activities:

- M-44-13E: Submit draft WIRD to Ecology for FY 2002; due date 6/30/01.
- M-44-14E: Submit final WIRD for FY 2002 to Ecology; due date 8/31/01.
- M-44-15E: Complete characterization deliverables consistent with WIRD developed for FY 2001; due date 9/30/01.
- M-44-16E: Complete Input of Characterization Information for HLW Tanks for which Sampling and Analysis was Completed Per the FY 2000 WIRD, into an Electronic Database; due date 9/30/01.

**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.
- Reviewing contractor closure document for SY-101.

Issue:

- None.

Planned Activities:

- None.

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

Status:

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).

M-45-00A (00-06) milestone negotiations concluded 8/30/00 and ORP is working to these milestones.

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.

Near-Term Milestones:

M-45-03-T03 (12/30/01) Submit S-112 Saltcake Waste Retrieval Technology Demonstration Functions and Requirements Document.

- Work has initiated on revising the requirements document completed for S-103 in FY 00 for use on S-112
- Work initiation on the RPE has been authorized with a kickoff meeting scheduled for 11/14/00

M-45-03G (6/30/04) Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration

- Vendor contract for development and delivery of equipment is in-process
- Acquisition of Hanford testing facilities is currently in requirements definition phase

M-45-03H (9/30/04) Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Design

- In-process of resolving engineering uncertainties from FY 2000 Preliminary Engineering Report
- Performing studies and assessments of field conditions to support initiation of Conceptual Design
- Preparing CD-1 Data Package

M-45-05-T16 (10/30/02) Submit S-102 Initial Waste Retrieval Functions and Requirements Document

- Work has initiated on defining retrieval systems requirements and F&R document development

- Work initiation on the RPE has been authorized with a kickoff meeting scheduled for 11/14/00
- Procurement process initiated to secure A&E services for LDMM concepts
- Workshop scheduled for November 16th and 17th to define proof of concept test objectives supported by TFA

M-45-06-T05 (6/30/02) Submit Tank Farm Closure/Post-Closure Workplan Update

- Work initiated on defining document update scope and content
- Initial meeting held with Ecology on October 25th to obtain concurrence and input on update scope

M-45-12-T01(2/28/02) Submit An Options Report Documenting DOE Assessment Of Actions That Could Be Taken To Increase Available Tank Space for SST Waste Retrieval

Workshop scheduled on November 29th and 30th to scope and identify options for assessment

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.

Ongoing Activities:

Public Involvement on M45-00A commenced October 2, 2000. Notification of public was done through direct mailings and a media announcement (Oct. 1).

Funding for balance of scope contained in M45-00A signed Oct. 3 as part of August 4th rebaselining. SST BCR provides for funds through '01 as CHG locating funds for outyear activities (BCR will be provided).

Draft PI for SST developed. HQ reviewed PI and supports effort. Scope includes:

- Draft for tanks S-112 and C104 to submit to Ecology by April 30, 2001 (milestone Dec 2001)
- Update to SST closure workplan based on data from VZ RFI/CMS, RPE, AX104
- Option report assessing activities to increase compliant task space (3/21/01)
- Procurement strategy for a design requirement for SST retrieval and leak detection W/I Cold Test Facility
- Conceptual Designs for C-104 retrieval (9/28/01).

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 held a meeting August 9th, 2000 to resolve comments on this work plan. DOE addressed Ecology's comment and a formal response outlining the resolution of Ecology's comment has been drafted and will be forwarded to Ecology.

M-45-56: Ecology and DOE met in August 2000 to assess progress and discuss implementation of interim measures. DOE briefed Ecology on interim measures planned for FY 2001. Ecology agreed to send a letter to DOE/ORP expressing support for the interim measures planned.

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 staff on several occasions by letter to approve modifications to three proposed milestone dates, which Ecology staff agreed to. DOE is currently awaiting written Ecology approval to changes in the proposed milestone dates. 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 was completed the week of August 7, 2000.

M-45-53: Work is underway to implement plans for fieldwork in WMA B-BX-BY, which is scheduled to start in FY 2001.

M-45-54: Initial decision-maker interviews were conducted in Sept. 2000 to start the DQO process to support the site-specific work plan addenda for T/TX-TY, which will continue in FY 2001.

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. This completes proposed milestone M-45-50. TFR addendum for A, AX, B, BX, BY, C, S, S, SX, T, TX, TY, and U were delivered to Ecology in September 2000. ORP will be implementing a geophysical monitoring program in FY 2001 to follow the completion of the spectral gamma logging baseline for SSTs.

Milestone M-43-00, Tank Farm Upgrades

Status:

Interim milestone update

- SN-635 welds complete and line backfilled, ATP complete
- SN-633 pipe welds complete, pneumatic test complete, ATP complete, backfill 40% complete
- AY-01A Pump Pit upgrades complete.
- Design review on Master Pump Shutdown System complete.
- Repairing cracks in Pit AY-02A
- Initiated field welding of transfer lines SN-631, SN-632 and drain line DR-100
- Stated definitive design for Phase 2 AN Farm upgrades
- Started the procurement process to procure double wall transfer pipe for the 200 East Area Waste Transfer Line
- Definitive design of the Phase 1 AW farm upgrades continuing currently one month ahead of schedule (schedule milestone 24Jan01)
- Fabricating nozzle assemblies, and drain guide for the upgrades to AZ-01A and AZ-02A pits
- Fabrication of SY Annulus Exhauster continues (60%) Jan 01 delivery date
- Pit Viper (backhoe with arm manipulator for remote pit work) design and procurement underway (40%)

Issues:

- Establish Working Group (including Ecology representatives) to develop/improve milestone completion language for M-43-00.

Planned Activities:

None.

Milestone M-47-00, Complete Work Necessary to Support Acquisition And Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities

Status:

- M-47-01, Complete construction of the transfer system from the 241-AP Tank Farm to the BNFL Facility to support the start of hot commissioning of the Phase I Tank Waste Treatment Complex by 3/31/06 – DOE is on schedule to complete as required.
- M-47-02, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex by 3/31/07 – DOE is on schedule to complete as required.
- M-47-03, Start construction of waste retrieval and mobilization systems for selected initial high-level waste feed tank by 7/30/04 – DOE is on schedule to complete as required.
- M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank by 2/28/07 - DOE is on schedule to complete as required.
- M-47-04, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex by 6/30/07 – DOE is on schedule to complete as required.
- M-47-05, Start construction of waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 and AZ-102) by 5/31/04 – DOE is on schedule to complete as required.
- M-47-05A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102) by 4/30/06. – DOE is on schedule to complete as required.
- M-47-06, Complete negotiation of additional agreement requirements (Milestones, Target Dates, and Associated Language) governing work necessary to support completion of treatment complex Phase I operations by 2018 by 6/30/10. Negotiations are not yet underway.

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

Status:

- M-62-00A, Complete pretreatment, processing and vitrification of Hanford HLW and LAW Phase I Tank Wastes. As committed to in the First Amendment of the Consent Decree, paragraph XIV.A, DOE is on a schedule to complete the first 10% of waste processing measured by mass and 25% of waste processing measured by radioactivity by 2/28/18.
- M-62-01, Submit Semi-annual Project Compliance Report starting July 31, 2000. Subject report was submitted on time but not to the satisfaction of Ecology. DOE is preparing a response the eleven items of purported non-compliance defined in the September 18, 2000 letter to Harry Boston from Mike Wilson. A response was submitted on October 16, 2000. ORP is awaiting closure of the 11 issues prepared by Ecology.
- M-62-03, Submit DOE petition for RCRA de-listing of vitrified HLW. BNFL submitted the final IHLW de-listing approach on April 18, 2000. DOE has transferred this responsibility to CH2M Hill Hanford Group (CHG) who has included it in their scope of work during the transition period. The document will be subsequently issued to the new WTP contractor after award of a new contract in January 2001. This activity is on schedule to be completed by 12/31/06.
- M-62-06, Start of Construction – Phase I Treatment Complex. The date of July 31, 2001 is in jeopardy because of the change in contracting approach. Estimates range from April 2002 to December 2002. DOE will not commit to a new milestone date until it has a firm basis to change. It is anticipated that the new contractor for the WTP will provide a construction start date six months from contract award. This event is consistent with the intent of the TPA as documented in the definition annotated in the M-62-05 milestone description. DOE intends to submit a draft change package incorporating the construction schedule language from milestone M-62-05 into milestones M-62-06 and M-62-07, a draft of which is to be handed out at the Quarterly Milestone Review Meeting on November 14, 2000.
- M-62-07, Construction Progress Milestones (2) – Phase I Treatment Complex. This milestone is tied to M-62-05 that was deleted by the Consent Decree revision. When DOE has established a solid technical basis for construction progress milestones, milestone definition and commitment dates will be established and negotiated with Ecology.
- M-62-08, Submittal of Hanford Tank Waste Phase II Treatment Alternatives Report. This milestone is on schedule. The establishment of the Strategic Planning Group in the Program Office of ORP has initiated long range planning for the remainder of the Hanford waste immobilization. Efforts include proposed R&D needs, tank waste inventory projections and plant sizing options. Initial submittal is scheduled for July 31, 2005.

- M-62-09, Start (Hot) Commissioning – Phase I Treatment Complex is on schedule. This milestone has been stipulated in the RFP for the Waste Treatment Plant, reference Section F, paragraph F.1 (b) milestone M-4. The contractor is incentivised to meet or beat the start of hot commissioning by December 31, 2007.
- M-62-10, Start Commercial Operations – Phase I Treatment Complex. This milestone is not specifically referenced in the RFP because the concept of "Commercial Operation" was eliminated by the termination of a "commercial" enterprise. DOE, as the new owner of the WTP, will attain and sustain throughput of the pretreatment and LAW vitrification by December 31, 2009 and attain and sustain throughput of HLW by December 31, 2011. These dates, as described in the RFP are for completion of Hot Operations, not Commercial Operation. The proposed completion of Hot Operations date for HLW (12-31-11) is inconsistent with this milestone (12-31-09).
- M-62-11, Submittal of Hanford Tank Waste Treatment Phase II Plan. This milestone is on schedule for completion in 2012.
- M-62-12, Issuance of DOE Authorization to Proceed – Phase II Treatment. This milestone will be negotiated in the 2012 timeframe.

Issues:

- Following successful signing of the First Revision to the Consent Decree, remaining Final Determination issues needs to be the top priority for all TPA managers.
- There are three issues currently being worked with BNFL: intellectual property rights discussions are restraining progress on release of glass formulation data prepared by GTS-Durateck; getting adequate, auditable cost proposals for the pilot melter purchase has been difficult; getting closure on intellectual property associated with design media is progressing slowly.

Planned Activities:

- Completing all termination activities with BNFL such that all information prepared by BNFL is transferred to CHG so that they in turn can prepare for transfer to the new WTP contractor. This activity is progressing on the schedule defined by ORP.
- DOE's purchase of the pilot melter in Columbia, Maryland will be expedited so that CHG can continue with the melter R&D plan.
- Source Evaluation Board will continue to keep the procurement activity on track for award of a contract by January 15, 2001.

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-90-00, Complete Acquisition of New Facilities.....

Final Determination Date: To be established 9 months after approval of Project Management Plan.

Current ORP Date: As specified in the FY 2001 MYWP.

- M-90-08, Initiate ILAW Disposal Facility Construction.

Final Determination Date: 3/30/04

Current ORP Date: 4/1/05

- M-90-09-T01, Complete ILAW Facility Detailed Design.

Final Determination Date: 3/30/04

Current ORP Date: 3/31/05

- M-90-10, Initiate Placement of ILAW Waste Canisters in ILAW Disposal Facility

Final Determination Date: 1/31/07

Current ORP Date: 2/6/08

- M-90-11, Complete Canister Storage Facility Construction

Final Determination Date: 2/01/07

Current ORP Date: 5/5/08

- M-20-00, Submit Part B Permit Applications.....

Final Determination Date: 2/28/04

Current ORP Date: As specified in 2001 MYWP

- M-20-56, Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology.

Final Determination Date: 6/30/02

Current ORP Date: 5/30/02

- M-20-57, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology
Final Determination Date: 8/31/02
Current ORP Date: 8/31/02

Issues:

- Inconsistency between Final Determination and ORP planning dates. On October 6, 2000, ORP sent a letter to CHG requesting evaluation of impacts. ORP will evaluate the need for a TPA change request for M-90 milestones.

Planned Activities:

- Provide Ecology with copies of revision 3 to the ILAW and IHLW Program Plans for information – Completed November 2, 2000.
- Initiate ILAW remote-handled waste trench conceptual design (Project W-520) - October 2000.
- Issue ILAW Disposal Site Pre-operational Monitoring Plan – sent to HQ and Ecology November 1, 2000.
- Initiate Project W-520 Part A Application - March 2001.
- Initiate Project W-520 and Project W-464 Part B Permit Applications - October 2000.
- Initiate IHLW Interim Storage Facility Preliminary Design (Project W-464) - July 2001.
- Issue draft 2001 ILAW Disposal System Performance Assessment to HQ for review - March 2001. Document will be available for ORP and Ecology review in December.
- Prepare LAW and HLW melter disposal alternative generation and analyses - February 2001.
- Obtain Borehole #2 samples from reference ILAW disposal site - March 2001.

SCHEDULE VARIANCE ANALYSIS (\$10.5M)

WBS/PBSTitle

1.01.01/TW01

Tank Waste Characterization

Description and Cause: The unfavorable schedule variance (-\$0.8M; -2.5%) is due to non-PI related scope for grab sample data packages and lab analysis being behind schedule.

Impacts: No milestones are impacted.

Corrective Action: None required. All FY 2000 milestones were completed.

1.01.02/TW02

Tank Safety Issue Resolution

Description and Cause: The unfavorable schedule variance (-\$1.0; -4.0%) is within the reporting threshold of negative 7.5 percent; however, the majority of the schedule variance is due to deferring 241-SY-101 scope to FY01.

Impacts: There are no impacts.

Corrective Action: None required, as the scope will be completed in FY 2001.

1.01.03/TW03

Tank Farm Operations

Description and Cause: The unfavorable schedule variance (-\$7.2M; -4.3%) results from the following. Project W-314, "Tank Farm Restoration and Safe Operations," due to SN transfer line and piping issues; Interim Stabilization, due to pump and transfer line failures; work on Project W-420, Stack Monitoring System Upgrades, is on hold pending approval of a path forward plan from DOE-ORP; and Environmental, Safety, Health, and Quality (ESH&Q) activities (internal and external assessments) are behind schedule due to diversion of resources to support higher priority emergent work scope earlier in the fiscal year (tank 241-SY-101 pumping, cross-site waste transfers, and 244-AR vault activities). Finally, RCRA Part B Permit activities are behind schedule due to delays in receiving comments from Ecology.

Impacts: There are no impacts, as all planned milestones were completed.

Corrective Action: None required.

1.01.04/TW04

Retrieval Project

Description and Cause: The unfavorable schedule variance (-\$1.0M; -1.7%) is due to the following: Cancellation of the Readiness-to-Proceed (RPT2) gap analysis due to the vitrification contract change; the final 241-AZ-101 report being behind schedule due to a backlog at the lab; and reassignment of support staff to higher priority work.

Impacts: There are no impacts; as all planned milestones were completed.

Corrective Action: None required, as the final 241-AZ-101 report will be completed in FY01.

1.01.05/TW05

Process Waste Support

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

Impacts: None required.

Corrective Action: None required.

1.01.06/TW06

Privatization Phase I

Description and Cause: There is no schedule variance; therefore no explanation is required.

Impacts: None required.

Corrective Action: None required.

SCHEDULE VARIANCE ANALYSIS (\$10.5M) (continued)

WBS/PBS

Title

1.01.08/TW08

Privatization Infrastructure

Description and Cause: There is no schedule variance; therefore no explanation is required.

Impacts: None required.

Corrective Action: None required.

1.01.09/TW09

Immobilized Waste

Description and Cause: The unfavorable schedule variance (-\$0.1M; -0.3%) is within the reporting threshold; therefore, no explanation is required at this time.

Impacts: None required.

Corrective Action: None required.

1.01.10/TW10

Management Support

Description and Cause: The unfavorable schedule variance (-\$0.4M; -0.8%) is within the reporting threshold; therefore, no explanation is required.

Impacts: None required.

Corrective Action: None required.

COST VARIANCE ANALYSIS (\$33.6M)

1.01.01/TW01 Tank Waste Characterization

Description and Cause: The favorable cost variance (\$4.1M; 12.3%) 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.

Impacts: There are no impacts.

Corrective Action: None required. Efficiencies were used to perform emerging and accelerated work scope.

1.01.02/TW02 Tank Safety Issue Resolution

Description and Cause: The favorable cost variance (\$2.6M; 10.9%) is due to a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; and efficiencies in Flammable Gas activities.

Impacts: There are no impacts.

Corrective Action: None required. Efficiencies were identified for re-allocation to other high priority CHG needs.

1.01.03/TW03 Tank Farm Operations

Description and Cause: The favorable cost variance (\$1.7M; 1.1%) is within the reporting threshold of positive 10 percent; therefore, no explanation is required.

Impacts: None required.

Corrective Actions: None required.

1.01.04/TW04 Retrieval Project

Description and Cause: The favorable cost variance (\$5.4M; 9.5%) is due to a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; retrieval technical evaluations were performed by Tank Focus Area resources; efficiencies were achieved in several engineering tasks including the cold test facility activity. and Project W-211, "Initial Tank Retrieval Systems" realized efficiencies on Title II designs for the AZ-102, AN-104, AP-102/104 retrieval systems from lessons learned on previous designs. In addition, a contract for Project W-523, SST High Level Waste Retrieval System, Phase 1 project definition support was awarded for less than what was estimated.

Impacts: There are no impacts.

Corrective Action: None required.

1.01.05/TW05 Process Waste Support

Description and Cause: The favorable cost variance (\$0.8M; 7.6%) is within the reporting threshold of positive 10 percent; therefore no explanation is required.

Impacts: None required.

Corrective Action: None required.

COST VARIANCE ANALYSIS \$33.6M (continued)

WBS/PBSTitle

1.01.06/TW06

Privatization Phase I

Description and Cause: The unfavorable cost variance (\$10.9M; 32.5%) is due to subcontract costs being less than estimated for research and technology activities due to delays in awarding the contract, and less than planned staff to support interim design.

Impacts: There are no impacts.

Corrective Action: Contracts will be awarded, and appropriate staff will support work scope needs.

1.01.08/TW08

Privatization Infrastructure

Description and Cause: The favorable cost variance (\$2.7M; 19.2%) 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. In addition, procurements scheduled for September were not received.

Impacts: There are no impacts.

Corrective Action: CHG has requested DOE-ORP to reprogram approximately \$4M of capital line item funding from Project W-519 to expense for other higher priority work.

1.01.09/TW09

Immobilized Tank Waste

Description and Cause: The favorable cost variance (\$1.0M; 11.9%) is due to a credit passback for approved reductions in the Fluor Hanford and CHG overhead pools; 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); and a reduction in personnel within the ILAW program. In addition, geotechnical data packages and wind/stack/thermal analysis activities cost less than anticipated.

Impacts: There are no impacts.

Corrective Action: Efficiencies were used for other higher priority CHG work.

1.01.10/TW10

Management Support

Description and Cause: The favorable cost variance (\$4.4M; 9.1%) 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 Construction Project Management, Systems Engineering and Technical Baseline, and Project Integration Office activities.

Impacts: There are no impacts.

Corrective Action: None required, as efficiencies were used for other higher priority work

APPENDIX C

Progress Reports, Tank Waste Treatment Project

September - November, 2000



CH2MHILL
Hanford Group, Inc.

October 30, 2000

CCN # 016113C
CHG-0005903

Mr. J. J. Short, Contracting Officer
U.S. Department of Energy
Office of River Protection
Post Office Box 450
Richland, Washington 99352

Dear Mr. Short:

CONTRACT NUMBER DE-AC06-99RL14047; PROGRESS REPORT – SEPTEMBER 2000

CH2M HILL Hanford Group, Inc., Tank Waste Treatment Project is pleased to submit the Monthly Progress Report. The attached report identifies the progress of the River Protection Project – Waste Treatment Plant for the month of September 2000. This report contains information with the financial cutoff date of September 30, 2000.

If you have any further questions, please contact Mr. R. D. Wojtasek on 371-3742.

Very truly yours,

M. A. Payne
Senior Vice President
Tank Waste Treatment Operation

dlt

Attachment

CCN# 016113C
CHG-0005903

Attachment

MONTHLY PROGRESS REPORT, SEPTEMBER 2000
RPT-W375-MG00070, REV. 0

Consisting of 24 pages
Including coversheet

CH2MHILL

Hanford Group, Inc.

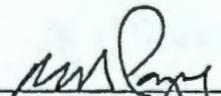
RIVER PROTECTION PROJECT – WASTE TREATMENT PLANT

DOE Monthly Progress Report September 2000

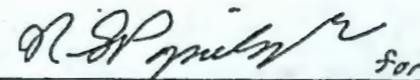
RPT-W375-MG00070, Rev. 0

Contents

- Overall Management Assessment
- Accomplishments/Progress
- Potential Problems, Impacts, and Course of Action
- Action Items
- Cost and Schedule
 - Cost/Schedule Performance Table
 - Cost/Schedule Variance Explanation
- 90-Day Look Ahead
- Change Control Log



M. A. Payne, Senior Vice President
Tank Waste Treatment Operations



C. A. Hall, Senior Vice President
Tank Waste Treatment Interim Design

OVERALL MANAGEMENT ASSESSMENT

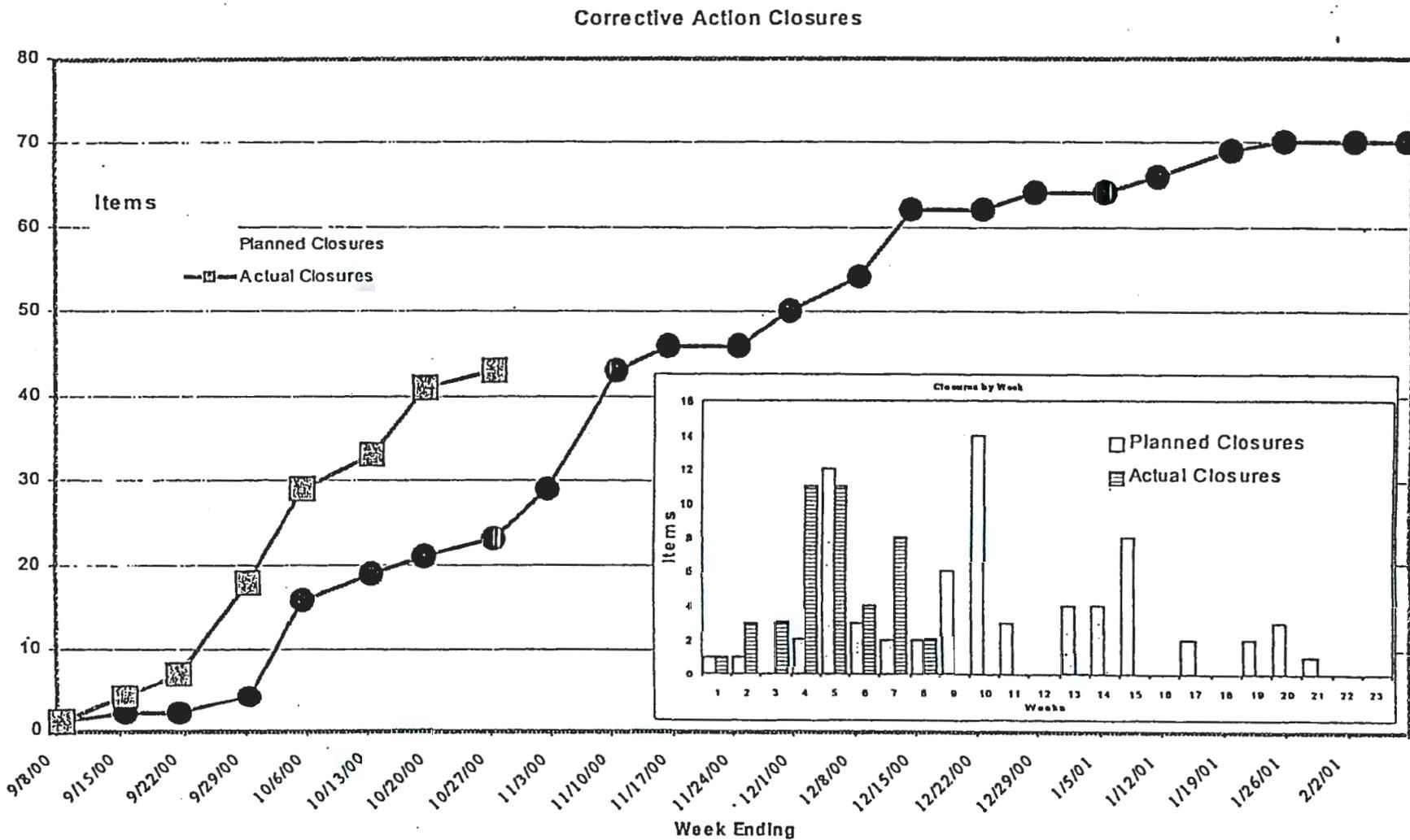
CH2M HILL Hanford Group, Inc. (CHG) successfully completed the orderly transition of the River Protection Project - Waste Treatment Project (RPP-WTP) in accordance with Performance Incentive ORP6.1.2. Noteworthy accomplishments include:

- No first-aid cases or reportable accidents or injuries occurred during the month of September.
- The FY 2001 resource-loaded schedule was submitted in accordance with the ORP Statement of Work (SOW) (4.1, 4.2.1, 4.2.2). The schedule identifies the magnitude of work to be completed for the remaining B-1 scope, transition activities, and B-2 scope to be completed by the new contractor.
- Re-established the WTP Safety committees. Trained staff and resumed periodic meetings.
- Completed line management self-assessments and an independent Red Team Review to prepare for the Regulatory Unit evaluation of readiness to resume Important to Safety activities (ITS).
- Completed position specific training for WTP staff. Corrected program errors and placed the database under configuration management. Greater than 20,000 training records were entered into the database.
- Declared readiness to resume ITS activities.
- Ahead of schedule on working off backlog of outstanding commitments and corrective actions (see page 3).
- Identified a series of management control and technical issues. Initiated corrective action to resolve. Process flowcharts have been developed that outline the resolution processes for issues related to:
 - Systems/Design Requirements Verification
 - Risk Register Management
 - BNFL Inc., April 24, 2000, Deliverables and Comments review and incorporation
 - Consolidation of Action Item tracking into a select few databases
 - Transitions Plan to the new selected contractor
 - Waste Treatment Plant Design Document Hierarchy

OVERALL MANAGEMENT ASSESSMENT

- A design requirements-verification step has been added as a precursor to the planned Design Reviews. Initial assessment of the Requirements Management system used by the prior contractor appears to have substantial weaknesses. This step will verify the pedigree of requirements.
- Established a Transition team and dedicated manager to develop a thorough transition plan and assist in the orderly transition to the new selected contractor.

OVERALL MANAGEMENT ASSESSMENT



ACCOMPLISHMENTS/PROGRESS

PROJECT

Balance of Facilities

- Completed training on the "ProjectWise" document management system. "ProjectWise" is used to maintain configuration control over design documents as required by SOW item 6.3, "Configuration Control of the WTP Design."
- Completed the transfer of electronic drawing files from the old project file server to "ProjectWise" vaults to implement the configuration management system.
- Resumed design work on the Chiller/Compressor Plant and the Site Plot Plan. This effort supports SOW activity 6.6.11, "Balance of Facility Design Updating,"
- Resumed Plant Design function group activities to assure a standard approach to Layout deliverables.
- Completed review of files and electronic data returned from the previous contractor last month to assure BOF had complete understanding of the material returned, and that "holes" were identified. This supports SOW item 6.1, "Establishing the Technical Baseline."
- Started work on revising Piping and Instrument Diagrams (P&IDs) to add information required under SOW item 6.4.3, P&IDs.
- Started work on nine mechanical system descriptions, and 13 electrical system descriptions, to add information required under SOW item 6.4.1, "System Descriptions."

Pretreatment

- Completed training on the "ProjectWise" document management system.
- Completed review of files and electronic data returned from the previous contractor last month to assure PT had complete understanding of the material returned, and that "holes" were identified.
- Completed and submitted required system descriptions (SOW 6.4.1). After the descriptions were completed, corrections of the deficiencies in the associated documentation were begun.
- Location and sizing of High Efficiency Mist Eliminators, as well as, vessel venting issues were initiated.
- Worked with R&T to evaluate support required from Pretreatment staff to advance Optimization Studies, to combine the PT and LPP buildings, and to eliminate certain PT functions such as Technicium ion exchange.

ACCOMPLISHMENTS/PROGRESS

HLW Vitrification

- Continued reestablishment of the technical baseline (SOW 6.1) through resolution of Computer Aided Design (CAD) software issues and incorporation of "ProjectWise" software including training classes. Activities included comparisons of composite and non-composite beams for thick concrete floors, answering issues pertaining to use of circular HEPA filters on the project, standardizing QL levels, and drafting melter standards and criteria updates.
- Documents listed for configuration management control (SOW 6.3) that were imported into the "ProjectWise" system included Instrumentation and Controls drawings, CAD standards, and data cells for instruments were applied. The Electrical Load List was revised, General Arrangement drawings were issue for comment. System descriptions and P&IDs were updated, Safety Requirements Document (SRD), and Design Basis were reviewed.
- Secondary off-gas layout and effluent transfer issues were resolved (SOW 6.5.1); system notebooks were prepared that include draft mechanical data sheets; and Process Flow Diagrams were updated.
- Design confirmation activities (SOW 6.6.5) included support of ES&H on air permit issues, and airborne release calculations; review of the revision of Radiation Protection Plan, as member of ALARA Subcommittee; comparison of standards selected in SIPD with those in SRD and DOE 420.1-1 Design Criteria. Drafts of the white paper were prepared for HLW ISM2 status and for open issues intended as background information for reconciliation meetings between Safety and Engineering. Provided the Process group a list of standards referenced in SIPD for use in Process group system descriptions, and in review of relationships between plant item list and SIPD for possible cross-reference or linking.
- To develop the Process Design (SOW 6.6.9), HLW continued SBS boil-down time and receiver-vessel shut down capacity calculations; melter surge frequency and shut-down to idle time calculations; floor drains and sumps system calculation; a DCN for miscellaneous HLW off-gas changes; a DCA to eliminate the Caustic Scrubber system and replace it with a Silver Mordenite System; and issue of glass former and glass enthalpy calculation. Issued comments to Frank Smith at SRTC on the dynamic model write-up, and the staff prepared briefing papers on open issues from ISM2 (overflows, load drops, control systems) to be used in future reconciliation meetings between Safety and Engineering.
- Facility Design Products (SOW 6.6.10) activities included establishment of HLW Centrifugal Blower arrangement and piping layout requirements, and calculations to support a revision to the HLW Melter Feed System Study (ES-W375HV-PR00001).

ACCOMPLISHMENTS/PROGRESS

LAW Vitrification

- The Preliminary Melter Design Package was completed for contracting to GTS-Duratek. Engineers began reviewing drawings and specifications associated with other long-lead equipment items (SOW 2.7).
- The team priority was advancing the deliverables that are due on October 16, 2000 (SOW 6.4, 6.5). The work will be complete with the exception of drawings and lists dependent on software installation.
- Resumption of Work preparation included HVAC engineers attendance at Nuclear Air Cleaning and Treatment conference.
- Received most of the requested documents/drawings/reports/databases from DOE and BNFL Inc., and reviewed them. Preliminary ALPHA documentation was retained by BNFL Inc., as intellectual property.
- Conventions for Units of Measure (SOW 6.6.3) were proposed via CCN# 015196C.

Construction

- Reviewed construction activities to ensure that the focus of CHG's interim construction efforts completed critical activities to support a smooth transition to the new WTP Contractor, and provide construction support to meet the June 2001 milestone for WTP Contractor mobilization.
- Began development of a Transition Package template for documents for the main categories of construction work, and prepared an index for filing Construction documents, including those returned from BNFL Inc., background and informational documents, in support of construction planning efforts.
- Began identifying construction personnel interfaces with each of the projects to provide constructability reviews of October 16, 2000, SOW deliverables.
- Initiated review of permitting activities and completion dates to support construction milestones, including submittal of the LCAR.
- Successfully worked through WTP Integration group to support planning for the Emergency Sirens to be procured and installed by CHG at the Site prior to site mobilization by the WTP Contractor.

ACCOMPLISHMENTS/PROGRESS

Engineering

- Eighteen potential Optimization Studies were discussed with the U.S. Department of Energy (DOE), Office of River Protection (ORP). Thirteen studies were prioritized and approved by ORP.
- Draft test specifications were established for Low Activity Waste (LAW) and High-Level Waste (HLW) vitrification activities at Vitreous States Laboratory, and for AP-101 and AW-101 sample analyses.
- A revision to the Developments Requirements Document is in progress per CHG SOW section 5.1, "Developments Requirement Document (DRD)." A draft was issued for review on October 10, 2000.
- Provided aerial emissions data to Environmental Group for air permit and risk assessment.
- Interface management approach and structure were briefed with ORP. An interface management plan for the interim design period was drafted to kickoff the Interface Control Document (ICD) working teams.
- CHG procedures were modified and re-issued to incorporate ORP and CHG design authority/change control requirements as stated in Performance Incentive (PI) ORP6.2.1. Meetings with ORP agreed on the acceptability of CHG response to the PI.
- Issued five test reports in accordance with CHG SOW section 5.2.1, "Process Verification and Testing Planning and Reporting."

Environmental Safety & Health

- Draft preliminary responses to Ecology NOD on the Dangerous Waste Permit Application (DWPA), and regulator comments on the Risk Assessment Work Plan were prepared and submitted to DOE on September 19, 2000. Schedules to support dangerous waste permitting and risk assessment activities were finalized and submitted to ORP.
- Identified key issues and long-lead items from the DOE/ORP comments on draft air permitting documents, and established an approach for resolution of each issue. Comment responses, meeting minutes, and schedules for comment resolution were provided to ORP. Modification of air permitting documents has been initiated.
- An air permitting plan that outlined RPP-WTP permit deliverables, critical path items, and a comprehensive schedule was provided to ORP on September 28, 2000. The permitting schedule was integrated with the WTP project schedule.
- WTP Environmental staff participated in site-wide integration meetings and workshops relating to management of PCBs under the Toxic Substance Control Act (TSCA). WTP participation in this process is important to development of a Site-wide PCB management approach that minimizes impacts to the vitrification plant permitting strategy and design.

ACCOMPLISHMENTS/PROGRESS

- The WTP team responsible for estimating emissions finalized the key assumptions and indicator compounds for incorporation into the emissions model, Aspen Customer modeler (ACM). The model will be run for the first time in late October. Results from the emissions estimate will be used in the assessment of human and ecological risk and in the selection of best available air emissions control technology before submitting RCRA dangerous waste and air permits to regulatory agencies.
- Revised the RPP-WTP AB documents and completed the ABCN packages to include previously approved ABCNs and updated the text. Performed document reviews, AB evaluations, and supported the RPP-WTP document approval process including the Project Safety Committee reviews. The ABCN packages, including the revised documents were submitted to DOE for information during the first week of October to support the resumption of ITS work activities.
- Reviewed various procedure revisions, performed AB evaluations of various procedures and Project documents as required by Section 6.4 of the SOW (letter 00-AMSA-036), reviewed ES&H Transition Cover Sheets, and assisted in completion of resumption plan activities.
- Evaluated the status of open issues from inspections and deficiency reports, updated the ISAR open issues and questions tables, transferred updates into the Project Document Control and S&RP databases (incorporated relevant DOE action items and open issues into detailed project schedules). Participated in Site-wide integration meetings and workshops relating to permitting of PCBs under the TSCA.
- Continued work with the emissions estimating team. Identified key assumptions and selected organic indicator compounds for the emissions calculation. These assumptions and indicator compounds will be incorporated into the emissions model being developed using licensed ACM software. The emissions estimate provides important information supporting the DWPA risk assessment, selection of best available control technologies and air permitting.
- Continued comment resolution to the construction Radiation Protection Plan with the ORP.
- Developed several audit plans for an internal self-assessment in preparation for DOE "Important to Safety" evaluation.
- The Radiological Controls group performed a verification of Micro Shield software used for shielding and dose evaluations. This critical software application allows the Radiological Safety group to perform ALARA design reviews.

Operations

- Training worked with the Information Technology group to develop and complete a corrective action plan to resolve training database software problems which was preventing it from accurately portraying accurate training status. The training database was put under configuration control.

ACCOMPLISHMENTS/PROGRESS

- In excess of 20,000 training records were entered into the training database to reflect the status of training of project employees.
- Open training issues identified prior to termination of the BNFL Inc., documented in CARs and DRs have been completed.
- WTP training continues to schedule and provide multiple sessions of training classes necessary for WTP to perform Quality-Affecting and Important to Safety activities.
- Initiated preparation, developed an outline, and nearing completion of the draft Functional Specification and Operations and Maintenance Requirement documents.

Quality Assurance

- Declared readiness to resume ITQ activities.
- Completed a root-cause investigation for deficiencies in corrective action management. This resulted in CHG corrective action responses to DOE-RL and ORP identified deficiencies. Most of the actions identified in the CHG responses are complete.
- Fifty-three percent of QA's action items were closed in September. The closing of 16 of 30 open items exceeded the expected closing of eleven items for the Quality Assurance Department.
- Completed revision of four procedures required to improve effectiveness of quality improvements processes. The revision of these four procedures resulted in the closure of twelve open items in the corrective action database.
- Presented three QA training sessions to project personnel. Computer Based QA Training was released from BNFL Inc., and made available to project personnel.

ACCOMPLISHMENTS/PROGRESS

Information Technology

- Reloaded electronic data files returned by BNFL Inc., and notified project of the availability on September 22, 2000.
- Installed Bentley "ProjectWise" for drawing management system and P&ID's. Prepared the "ProjectWise" training class, and conducted three-day training classes for WTP design engineers. This supported resumption of design work under change control (supports section 6.3 of Interim Design SOW).
- Restored the Plant Item database and provided user access to the application.
- The CAIES data for instrumentation packages were loaded into an Oracle database and made available to project.
- Completed G2, Witness, and ACM procurements, and delivered software to users to support Operations Research modeling (supports section 6.6.9.2 of Interim Design SOW).
- Procured GT-Strudl to support project structured analysis.
- Worked with BNFL Inc., to get Microshield software for radiation shield measurements reissued to CHG, and supported reloading the application for ES&H.
- Established the hardware configuration, and initiated the procurement for workstations specified in section 6.5.9 of the Interim Design SOW.

Human Resources

- CHG currently has 186 employees and 290 contractor personnel on the WTP project, for a total of 476 employees. A loss of 18 personnel occurred since the last reporting period.
- New staff augmentation requirements of approximately 200 engineering professionals have been identified to support the FY 2001 proposed baseline plan. Vendors have been solicited for interest. Once ORP approval is received formal Request for Proposal's will be issued.
- The outstanding August employee concern was closed. One additional employee concern was received during the reporting period and resolution is in progress.

ACCOMPLISHMENTS/PROGRESS

Project Document Control

- Reviewed and completed the data entry on the remaining 700 Design Input Memorandums (DIM) completing an item on the August 90-day Look Ahead.
- Completed generation and testing of the Web based electronic access for the April 24, 2000, technical deliverable sorted by system in support of Section 6.4 of the SOW.

Procurement

- Initiated RFP's to definitize new contracts for approximately 290 staff augmentation personnel beyond September 30, 2000.
- Issued Letter Contract to GTS-Duratek for R&T scope. Have apparent agreement on Terms and Conditions.

Facilities Management

- Established assigned offices within the work groups for DOE onsite staff. Offices have been set up in LAW, HLW, BOF/ Pretreatment, and ES&H work groups.

POTENTIAL PROBLEMS, IMPACTS, AND COURSES OF ACTION

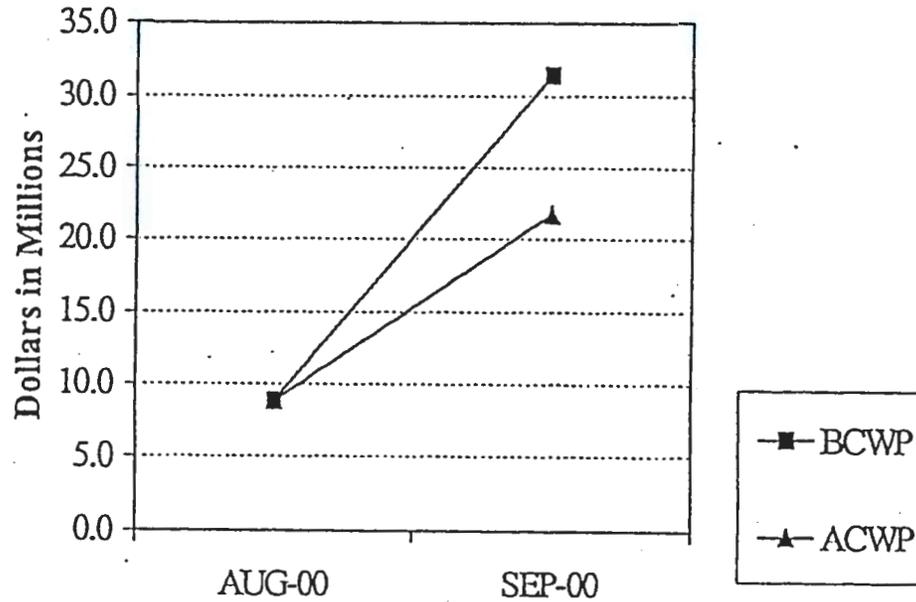
	Potential Problems	Impact	Course of Action	Status
1.	The work scope for Operations needs further definition in the FY 2001 SOW from OPR for either the interim design period or after contract transition to the new A/E.	Path forward for Operations scope is not definitive.	CHG will prepare a proposal to develop Operations, Maintenance, Commissioning and Training philosophy and requirements documents for ORP.	Open
2.	Data developed for OR model since 4/24/00 not available from BNFL Inc.	If data is not received, it could impact design progress.	N/A	Data found. Problem solved.
3.	Nuclear and Process Regulatory relationships are not yet established.	Potential effects on resuming work that is important to safety and in revising AB related and design documents.	ORP to provide direction to CHG.	Open
4.	GTS-Duratek Pilot Melter.	Could impact capability to perform melter R&T.	N/A	Contract signed. Problem solved.
5.	Resolution of BNFL Inc., intellectual property issues.	Design progress and transition to new A/E/C could be jeopardized.	ORP complete negotiations with BNFL Inc.	Open
6.	Extensive DOH/DOE comments on Site Sewage System from April 24, 2000, Deliverables Review.	Initial review of comments indicates a major redesign effort and a larger drain field is required.	The BOF C/S/A group is coordinating with ES&H to resolve comments. Design work may require subcontract support due to limited resources.	Open

ACTION ITEMS

Nothing to report.

COST AND SCHEDULE

Cost and Schedule Performance Table



	AUG-00	SEP-00
BCWS	8.8	31.4
BCWP	8.8	31.4
ACWP	8.8	21.7
SV	0.0	0.0
CV	0.0	9.7

COST AND SCHEDULE

Schedule Variance

Nothing to report.

Cost Variance

- The positive cost variance is primarily due to:
 - Subcontract costs substantially less than estimated for R&T activities due to delays in contract award and contractual issues with the GTS-Duratek Pilot Melter in the area of R&T.
 - Delay in obtaining planned staff-augmentation support for Interim Design activities due to the CHG WTP self-imposed stop work of quality-affecting and ITS work.

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
5.1	7	Development Requirements Document	CHG shall prepare an updated integrated DRD similar in format and level of detail to the original deliverable B-1-6, submitted by BNFL Inc., to DOE on 11/17/98.	10/31/00	Draft, comments incorporated
5.2	7	Process Verification Testing and Product Qualifications Deliverables	CHG is to identify those new testing activities it proposes to begin. This submission, which will be part of the interim design and transition work plan, should identify for each specific testing activity the following information. <ul style="list-style-type: none"> - Purpose and Scope of Test - Budget for Testing Activity - Performing Organization - Permitting - Safety Analysis - Operations and or - Waste Qualification activities 	10/1/00	Draft, comments incorporated
6.4	15	Organization of Design Packages by System Number	The design deliverables provided to the DOE on 4/24/00 shall be updated to include information as of 6/29/00 or later. These design deliverables are to be organized in design packages based on system numbers. See Sections 6.4.1 through 6.4.5	10/16/00	11/30/00 CCN# 015680C

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
6.5.1	17	Drawings/Diagrams	The following design products shall be updated and organized in a logical manner. A. Ventilation and Instrumentation Diagrams (void's) B. Instrument schedules C. Electrical Single line Diagrams D. Electrical Load Schedules E. Hydraulic Gradient Diagrams for interceding piping between facilities F. Mechanical Flow Diagrams (MFDs) G. Material Handling Diagrams (MHDs) H. Design Proposal Drawings (Equipment Procurement Drawings)	10/16/00	11/30/00 CCN# 015680C
6.6.7	20	Design Reviews	A multi-disciplined design review shall be scheduled, conducted, and documented. A list of systems to be reviewed will be developed by CHG and agreed to by DOE.	Starting 10/24/00	Need to correct requirements issues first
6.6.9.2	22	Operations Research. Assessment of the Plant	CHG shall verify and document to DOE that the OR Model accurately reflects the baseline process and facility.	10/16/00	Design Guide Prepared Note: Missing Files received on 10/24/00.
6.6.9.3	23	Tank Utilization Model	The G2 Model is to be developed and documented to model the utilization of tank capacity cycle times in the Treatment and Immobilization Facilities.	10/16/00	• Documents Provided to CHG
6.6.9.4	23	Mass and Activity Model	The ASPEN Model is to be developed and documented to model the mass and activity balance in the Treatment and Immobilization Facilities.	10/16/00	Design Guide Prepared for Flowsheet Models

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
6.6.10.3	26	Analytical Laboratory Facility	The sampling and analysis requirements to support process control, environmental compliance and waste form qualification shall be further developed and provided to the DOE.	• 10/15/00	11/30/00 CCN# 015680C
7.2	29	Dangerous Waste Permit Application	Develop draft responses to regulator comments on the Vitrification Plant Combustion Risk Assessment Work Plan.	• 10/30/00	Submitted 9/19/00. More detailed responses to be developed in November for Ecology workshops
3.1	2	Transition Management	CHG shall plan on providing extensive briefings to the WTP Contractor on the work scope being transitioned.	• Transition Plan 12/1/00	On Schedule
3.2	3	Staff Transition Planning Documentation	CHG shall conduct the following activities to support staff transition to the final WTP Contractor. - Identify staff acquired from Privatization Contract for Conceptual Design that will be available for reassignment. - Provide a summary level description of the capabilities of the acquired staff. - Identify subcontractors acquired from Privatization Contract associated with WTP Conceptual Design along with their subcontractor organization, scope of work, contract dollar value during transition period, and number of subcontract staff involved in the work.	Provided in electronic and hard copy form on 1/15/01.	On Schedule Target in-house date 12/1/00

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
3.4	3	<ul style="list-style-type: none"> Transition of Equipment and Systems 	<p>The WTP Contractor shall begin to occupy the 3000 George Washington Way facilities previously used by BNFL and currently being used by CHG.</p> <ul style="list-style-type: none"> 	<p>Starting 1/06/01 [Internal Milestone for Transition Plan 11/30/00]</p>	<p>On Schedule Target in-house date 12/1/00</p>
4.4.2	5	Operations Cost	<p>The Operations Costs shall be reviewed to ensure that there is an accurate portrayal of the necessary work scope, costs of labor are consistent with the current CHG rates, operator efficiency is consistent with current or anticipated work scope efficiencies, and to ensure that operations of the facility is consistent with the planning associated with Tank Farm Operations.</p> <p>Changes to the operations cost estimate shall be documented at the lowest level of the current estimate. The cost estimate need not be broken down to lower levels. Changes shall not be summarized at high levels of the estimate without the requisite detail at the lower levels. Changes to the cost estimate shall be documented consistent with the process used by BNFL. Revision to the applicable Scoping Statements shall be provided to support the proposed cost changes. Conversion of the Scoping Statements to Technical Baseline Reviews are not required nor desired.</p>	<p>No due date, work continues past 2/28/00</p>	

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
4.5.3.1	6	Schedule Clarification	Review the BNFL schedule and identify those activities that are unduly constrained. Revise the schedule to minimize the number of constrained activities. Maintain a document that shows the changes that are made to schedule.	1/15/01 Document to be provided to DOE	On Schedule
4.5.3.1	6	Schedule Clarification	Review the BNFL Level 2 schedule to determine if the schedule can be matured to a point where it can be considered a level 3 schedule. Maintain a document that shows the changes that are made to schedule.	1/15/01 Document to be provided to DOE	On Schedule
5.2.1(a)	8	Process Verification and Testing Planning and Reporting	CHG shall provide to DOE glass information developed with Contract (DE-AC27-96RL13308) funds since September 1996 (start of Part A), including, but not limited to: Composition, viscosity's as a function of temperature, durability test results (PCT, TCLP, VHT) etc. See Section 9 (a) through (f)	a) Provided no later than 1/15/01 b) 15 calendar days c) 2/28/01 90 days after testing is complete	DOE has all information at this time.
6.6.9	22	Process Design Products	During the interim design period and to be completed as a milestone deliverable by 1/15/01, CHG is to continue to develop the process design in accordance with the following guidance. See 6.6.9.1 and 6.6.9.2.	1/15/01	

90-DAY LOOK AHEAD

Section	Page	Section Description	Workscope Description	Due Date	Status
6.6.10	25	Facility Design Products	Facility Design Products shall also be provided to DOE as part of the design review process milestone deliverables. See 6.6.10.1 through 6.6.10.3.	1/15/01	Subject to Available Resources CCN# 015680C
6.6.11	26	Balance of Facility Design	Balance of Facility Design shall be updated and provided to DOE. See 6.6.11.1 through 6.6.11.3.	1/15/01	Subject to Available Resources CCN# 015680C
8.1 (1)	30	Waste Form Qualifications Documents	Revise the Products and Secondary Wastes Plan incorporating DOE's comments (Reference Letter, 00-PRD-040 dated May 25, 2000), and submit a revised Products and Secondary Wastes Plan to DOE for concurrence.	1/15/01	On Schedule
8.1. (2)	30	Waste Form Qualifications Documents	Revise the Waste Form Compliance Plan (WCP) incorporating DOE's comments (Reference Letter, 00-PRD-034 dated May 19, 2000 and obtain DOE concurrence.	1/15/01	On Schedule
8.1. (4)	30	Waste Form Qualifications Documents	Update the Waste Form Qualification Report (WQR) incorporating DOE's comments (Reference Letter, 00-RPD-051, dated June 27, 2000) for DOE review and comment. See Section 4).	No later than 1/15/01	On Schedule

CHANGE CONTROL LOG

Change	Impact	Corrective Action
BCR-RPP-133	<ul style="list-style-type: none">Authorization of work scope as directed by ORP was received September 29, 2000.	N/A



CH2MHILL
Sustaining the Planet

CH2M HILL
Hanford Group, Inc.
P. O. Box 1500
Richland, WA 99352

December 4, 2000

CCN # 016763C
CHG-0006741

Mr. J. J. Short, Contracting Officer
U.S. Department of Energy
Office of River Protection
Post Office Box 450
Richland, Washington 99352

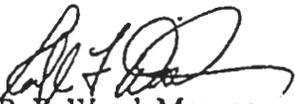
Dear Mr. Short:

CONTRACT NUMBER DE-AC27-99RL14047; PROGRESS REPORT – OCTOBER 2000

CH2M HILL Hanford Group, Inc., Tank Waste Treatment Project is pleased to submit the Monthly Progress Report. The attached report identifies the progress of the River Protection Project – Waste Treatment Plant for the month of October 2000. This report contains information with the financial cutoff date of October 31, 2000.

If you have any further questions, please contact Mr. R. D. Wojtasek at 371-3742.

Very truly yours,


R. F. Wood, Manager
Contracts Administration

dlt

Attachment

CCN# 016763C
CHG-0006741

Attachment

MONTHLY PROGRESS REPORT, OCTOBER 2000
RPT-W375-MG00072, REV. 0

Consisting of 25 pages
Including coversheet

CH2MHILL

Hanford Group, Inc.

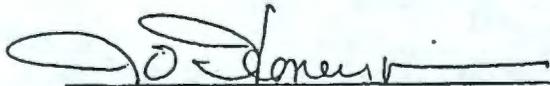
RIVER PROTECTION PROJECT – WASTE TREATMENT PLANT

***DOE Monthly Progress Report
October 2000***

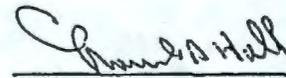
RPT-W375-MG00072, Rev. 0

Contents

- Overall Management Assessment
- Accomplishments/Progress
- Summary of Cost and Schedule Variances
- Potential Problems, Impacts, and Course of Action
- Cost and Schedule Performance
- Status of Decisions
- 90-Day Look Ahead
- Change Control Log



J. O. Honeyman, Senior Vice President
Tank Waste Treatment Operations



C. A. Hall, Senior Vice President
Tank Waste Treatment Interim Design

OVERALL MANAGEMENT ASSESSMENT

- No first-aid cases, or reportable accidents or injuries occurred during the month of October.
- Excellent U.S. Department of Energy (DOE), Office of River Protection (ORP) and CH2M HILL Hanford Group Inc. (CHG) teamwork continues. Notable products include the expeditious revision and negotiation of the ORP Statement of Work (SOW), and productive Weekly Interface Meetings.
- Resumed performance of Important-to-Safety (ITS) work after successfully passing the Regulatory Unit/Office of Safety Regulation (OSR) evaluation of project readiness to do so.
- Completed section 6.4 and 6.5 of the "Direction for Interim Design Services for the Waste Treatment and Immobilization Plant (WTP)," and submitted the package to DOE-ORP.
- Performed Design Reviews on selective plant systems. Expanded reviews to include review of basis for design requirements, after existing deficiencies in requirements management were identified, and are being corrected.
- Developed responses to regulatory agency comments submitted on the Risk Assessment Work Plan, and submitted a draft to the regulatory agencies.
- On November 6, 2000, the Waste Treatment Plant (WTP) project had no training delinquencies. Prior to this achievement, the minimum number of BNFL Inc., training delinquencies for the project was in excess of 200.
- Completed remaining action items, and submitted reports on DOE Inspection Report No. IR-00-004, "WTP Quality Improvement Program Assessment." This action will complete the related Price-Anderson Act noncompliance items that carried over from the BNFL Inc., contract.
- Established with the ORP the strategy for, and control of, adding additional staff to the project. Subcontracted staff to be used almost exclusively, and limited to 70 full-time equivalents (FTE's) above the project size at August transition, plus others for discrete tasks.
- Submitted the draft Transition Plan to ORP for review and approval. The plan identifies the tasks and implementation required to transfer the WTP project personnel, documentation, and facilities from CHG to the new WTP contractor in an orderly manner.
- Submitted and renegotiated the revised ORP SOW.
- The Interface Management Plan for interim project activities was issued October 2000.
- Issued the Draft Functional Specification.
- Completed the property inventory. Results will be used as a justification for DOE-ORP to buy the equipment from BNFL Inc., and tag as government property.
- Completed receipt, checking, and processing of proprietary drawings from BNFL Inc. Drawings are available to the project.

ACCOMPLISHMENTS/PROGRESS

PROJECT

Balance of Facilities

- Completed the Chiller/Compressor Plant general arrangement drawings and the Site Plot Plan (SOW 6.5.4). These documents are now available in Project Document Control (PDC).
- Revised 47 existing Process and Instrumentation Diagrams (P&IDs) to add required information (SOW 6.4.3). These P&IDs have been internally approved and will be delivered to the PDC during the November reporting period.
- Completed 11 mechanical system descriptions, and 12 electrical system descriptions to add references to existing design documents (PFD's, P&IDs, Engineering Calculations, etc.) (required under SOW 6.4.1). These documents are now available in PDC.
- Began development of drawings showing the general arrangement of the Melter Assembly Building (defined in SOW 6.6.11.2).
- Held meetings on the Interface Control Documents (ICDs) that describe the physical and administrative interfaces between DOE, ORP, River Protection Project (RPP) Contractors, and other Hanford Site Contractors. Initial redline markups for the December 2000 update have been identified (SOW 10.2.2).
- Provided support to resolve DOE comments on the Dangerous Waste Permit Application (DWPA), and the Limited Construction Authorization Request (LCAR) (SOW activity 7.0).
- Support development of a response to the Washington Department of Health questions on the Sanitary Waste Permit (SOW 2.3).
- Participated in OSR audit of the project to allow restart of ITS work.

ACCOMPLISHMENTS/PROGRESS

Pretreatment

- Reviewed the Pretreatment (PT) Vessel Vent system design.
- Studied control methods for radioactive particulates and aerosols.
- Began reviewing the need for PT/Low-level Pretreatment (LPP) design changes: Including alternate and back-up cooling and make-up for the CS-137 storage tanks, overcoming the criticality concern due to ultra-filtration concentration of solids, and handling recycle streams from submerged bed scrubbers used during the low-activity waste (LAW) and high-level waste (HLW) vitrification process.
- Participated in studies focused on optimizing the pretreatment process including: The potential use of the 242-A Evaporator as part of the WTP, an evaluation of recycle waste strategy, combining of the LPP building with the PT building, and an assessment of storage tank capacities.
- Developed background materials (drawings/documentation) to support a future baseline change proposal for the new WTP contractor to optimize the efficiency of the WTP by combining the LPP and PT buildings into a single facility.

HLW Vitrification

- Completed and issued to PDC all deliverables for the HLW area (identified in SOW 6.4 and 6.5).
- Continued advancing the HLW facility design (per the requirements of SOW 6.6.2).
- Prepared a draft white paper on Integrated Safety Management 2 (ISM2) prior to the re-start of safety work. The paper includes the list of plant items and standards that have been designated important to safety by engineering, and a crosswalk of standards cited in Standard Identification Process Database (SIPD) with those in the Standards Requirements Document (SRD) and DOE guidance. In addition, briefing material on the role of engineers in the Integrated Safety Management (ISM) process and the ISM requirements for selecting standards and safety classifications has been prepared.
- Performed Design Reviews (per the requirements of SOW 6.6.7) for the LAW and HLW Melter feed systems, and the HLW Melter off-gas systems. Preparation of material in support of upcoming design reviews, including the Melter, is proceeding.

ACCOMPLISHMENTS/PROGRESS

HLW Vitrification (cont.)

- Continued creation of studies and calculations to support establishment of the technical baseline for the facility (SOW 6.1). These studies and calculations include: Regenerable HEPA Filters study, HLW Melter Feed System study, Expanded Capacity study, updating Melter mass and energy balances study, updating the architectural code analysis and life-safety ingress study, Steel Structure Analysis calculation, canister transfer bogie options study, availability of swabbing robot study, preparation of in-cell utility line sizing for wash lines calculation, the Melter cave crane capacity option study, the Decontamination Philosophy design study, the Bagless Transfer Port option study, and the Melter Movement Option study.
- Created control strategies and standards and consolidated a list of open actions from previous off-gas and feed reviews. This information was provided to SIPD.
- Participated in the review of As Low As Reasonably Achievable (ALARA) documents.
- Began development of work process to create an Instrumentation database.
- Reviewed the existing Design Criteria Database against existing safety criteria.

LAW Vitrification

- Completed and delivered to PDC all identified deliverables for the LAW area (SOW 6.4 and 6.5).
- Performed design reviews of four major systems: Melter off-gas treatment system, feed preparation and Melter feed system, Melter maintenance and consumable breakdown system, and the Product handling container system.
- Began preparation of an engineering study on the Melter Power Distribution and Supply options.
- Completed preliminary Engineering Process and Performance Reports for LAW mechanical systems.

ACCOMPLISHMENTS/PROGRESS

Construction

- Provided ES&H with response to comments related to construction, and to assist ES&H in preparation of Limited Construction Authorization Request (LCAR) for submittal to the Regulatory Unit.
- Began a schedule integration effort to perform schedule analysis and detailed schedule integration. Focus will be on correcting construction logic, removing artificial constraints, and making correct logic ties to Permitting, Engineering, Procurement, and other prerequisite activities.
- Initiated development of construction portion of the Transition Plan which identified documents by category that will be transitioned to the new Waste Treatment Plant (WTP) Contractor.
- Initiated development of a Transition Package Template for each of the main categories of work, and now preparing Construction document turnover files.
- Beginning transfer of responsibility for procurement and installation of two Emergency Mobile Sirens from the TW-08 Project to the TW-06 WTP Project based on DOE direction.

Engineering

- The R&T program plan, "Development Requirements Document," PL-W375-TE00002, Rev. 1, was revised and issued to DOE-ORP for review and comment per section 5.1 of the SOW.
- Work is on schedule for the five Optimization Studies and eight letter reports.
- Preliminary results from the study to potentially delete the LPP were presented to ORP. Early indications predict that deletion of LPP will not increase the size of the pretreatment facility.
- The Waste Form Compliance Plan (WCP) for Immobilized High-Level Waste (Rev. 0, April 2000) was revised with resolved ORP comments and issued for internal CHG review. The document was delivered, as promised, to ORP before November 15, 2000. (SOW Section 8. 1 Item 2)
- The Product and Secondary Waste Plan (PSWP) is on schedule for submittal to the ORP on December 15, 2000. (SOW Section 8.1 Item #1)
- The procedure, "Design Change Control," K70P030, was revised to Rev. 5, on October 16, 2000, to address the approval authority requirements. (SOW Section 6.2)
- Procedure K70P030, Rev. 5, was modified by Procedure Change Request, K70P030A, to include use of the flowsheet models. (SOW Section 6.3)

ACCOMPLISHMENTS/PROGRESS

Engineering (cont.)

- A new procedure, K70P566, "Configuration Control of Process Design Models," was issued on October 16, 2000, to provide a method for configuration management of the flowsheet models. (SOW Section 6.5.8)
- ORP computers (ACM/G2/WITNESS) were installed and configured with the appropriate software to allow DOE access to the flowsheet models. (SOW Section 6.5.9)
- A Design Guide (K70DG711) for Process Flowsheet Models has been prepared to provide instruction in use of the models. (SOW Section 6.6.9)
- DOE-ORP formally approved CHG procedure changes (design authority/change control) issued in September.
- An eight-point plan was issued and is being implemented to improve the Design Criteria Database (DCD).
- An interim directive (CNN# 016169C, "Management Directive – Interim Compensatory Actions to Ensure the Integrity of Design Deliverable") has been issued to all users of the DCD to ensure procedure compliance.
- The Interface Management Plan for interim design activities was issued in October 2000.
- Interface meetings were reinitiated to update ICDs for incorporation of ORP comments and new design information.
- Design Reviews have been modified to include a requirements review at the beginning of each session.

Environmental, Safety & Health

- Completed final draft of the design and construction Radiation Protection Program. This is an essential precursor to construction preparations.
- Provided Standards Identification Process Database information for Design Input Memorandums on PT-110, PT-120, PT-230, PT-310, PT-360, PT-540, PT-550, PT-600, LPP-330, LPP-340, LPP-365, LPP-370, and LPP-510.
- Completed a study for PT Process Engineering entitled, "Reliability Assessment and Comparison of Proposed Heat Exchanger Options for the Cesium Storage Vessel (V13073) Cooling System." The report will be part of an appendix for an optimization study being done on alternative cooling-coil designs.
- Submitted eight Authorization Basis Change Notice (ABCN) packages to DOE in support of the readiness to proceed with Important to Safety (ITS) work.

ACCOMPLISHMENTS/PROGRESS

Environmental, Safety & Health (cont.)

- Completed management assessment on ES&H readiness to resume ITS work, supported CHG "Red Team" evaluation to resume ITS work, and supported an evaluation by the Office of Safety Regulations of CHG's ability to safely change the authorization basis.
- Initiated preparation of Notice of Construction and New Source Review for excavations supporting establishment of temporary construction support facilities.
- Continued an in-depth review of the DWPA Notice of Deficiency (NOD) comments and proposed responses. Workshops with Ecology will be initiated following completion of the in-depth review.
- Developed complete responses to regulatory agency comments submitted on the Risk Assessment Work Plan. These responses were shared with DOE-ORP environmental staff, and submitted as a draft to the regulatory agencies. Resolution workshops were held November 1 and 2, 2000.
- A draft environmental requirements chapter for the Basis of Design has been developed in accordance with ORP direction in paragraph 6.6.7 of the clarification of work scope letter dated October 24, 2000 (letter 00-PRD-069). The document will be issued for ORP review in the near future and supports incorporation of environmental requirements into the design criteria database.
- Revisions to the Waste Management Interface Control Documents (ICD's) are in progress. The ICD's are on schedule to meet the December 15, 2000, submittal date to ORP.
- Resolution was reached regarding ORP comments on the April 24, 2000, air-permitting deliverables.
- The strategy for preparation of an emissions estimate using a subset of representative compounds to model the entire list of indicator compounds was presented to EPA and Ecology, and received a favorable response. The strategy for estimating the rates of emission for products of incomplete combustion in the melter was discussed with favorable regulatory feedback. The emission modeling is on schedule for completion January 15, 2001. Results from the emissions estimate will then be used in the assessment of human and ecological risk, and in the selection of best available air emissions control technology, before submitting RCRA dangerous waste and air permits to regulatory agencies.

ACCOMPLISHMENTS/PROGRESS

Operations

- The Training data base was upgraded, tested and placed under configuration management. The database can now be relied upon to produce an accurate report of training status.
- The Training Record files were updated to accurately reflect position specific training requirements and training completed by project personnel.
- Completed revisions to the RPP-WTP Training and Development Plan – Design Confirmation Phase and implementing procedures, closing previously identified deficiencies.
- On November 6, 2000, the project had no training delinquencies. Prior to this achievement, the minimum number of training delinquencies for the BNFL Inc., WTP project was in excess of 200.
- The draft Functional Specification is being revised to incorporate comment resolution.
- The preliminary Operations Requirements Document has been drafted and routed for internal comment. The document is on schedule for completion by January 15, 2001.
- Operations coordinated WTP Management Assessments and an Independent “Red Team” Assessment of the Project’s capability to safely change the RPP-WTP Authorization Basis (AB) and to resume important to safety work. These assessments were performed in preparation for an OSR evaluation on the same subject. Operations developed lines of inquiry for the 13 Management Assessments utilizing the OSR technical assessment procedures. Project personnel, in their areas of responsibility, completed the management assessments. An Independent Assessment Team was commissioned to provide an overview of the project readiness in similar areas. Operations compiled and tracked open items found during the assessments, providing a valuable management tool to ensure timely completion of activities required for resumption of important to safety work.
- Operations identified the relevant list of correspondences between DOE-ORP and BNFL Inc., which transmitted comments on the Part B-1 deliverables. This list was transmitted in a letter to DOE-ORP to obtain concurrence on the scope of comments to be addressed as part of SOW in the Bridging contract and performance incentive. The letter also documented discussions with DOE-ORP on the criteria to be used to identify those comments that should be addressed by CHG as part of the SOW, transitioned to the new contractor for resolution, or are no longer relevant due to changes to the contract. Operations has initiated the compilation of comments against the deliverables and will solicit support across the project to aggressively resolve comments that CHG has agreed to address.

ACCOMPLISHMENTS/PROGRESS

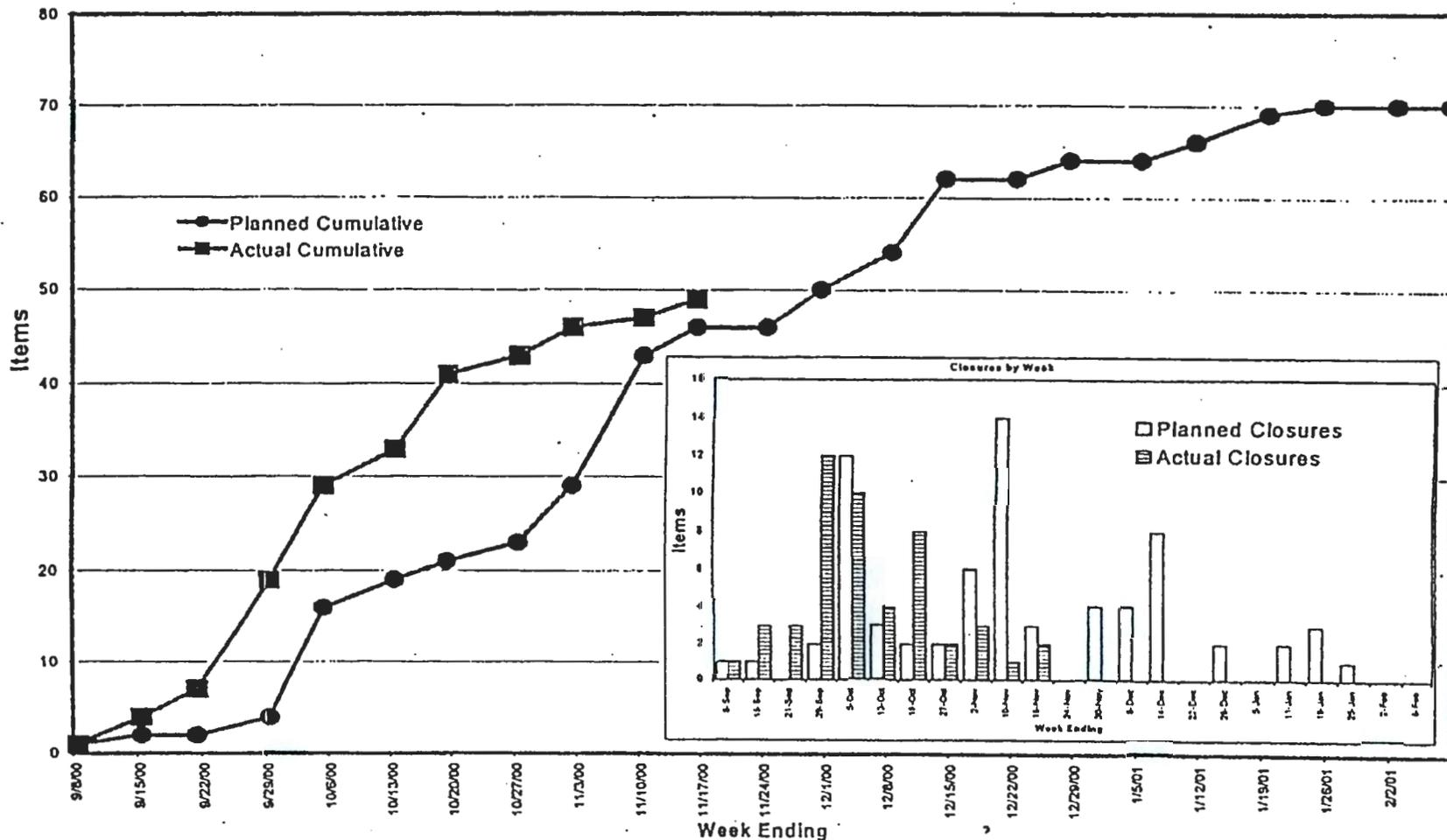
Quality Assurance

- Completed work resumption surveillances and proceeding with regular surveillance of RPP-WTP program and activities. Other activities included preparation and review of objective evidence for Red Team review, procedures, test specifications, and technical reports (review and comment of engineering products).
- Participated in the Readiness evaluation performed by DOE. Progress on corrective action backlog and improvements in the procedures that define the project's quality improvement program was of particular interest. Comments made by the assessors concerning these areas were satisfactory.
- Continued progress on the closure of the legacy corrective action backlog. In the period of September, October, and through November 17, 2000, 49 items were closed, as compared to the 46 planned for closure (see page 11).
- Continued progress on closure of CHG corrective actions. To date, 11 of the total 20 items have been recommended for closure (see page 12).
- Completed remaining action items, and issued reports for DOE Inspection Report No. IR-00-004, "WTP Quality Improvement Program Assessment." This action also completed the related Price-Anderson Act noncompliance items that carried over from the BNFL Inc., contract.
- Resumed regular surveillance schedule and completed surveillance of the corrective action program.
- Provided QA overview of engineering development activities, including review of the procurement for R&T work. Interfaced with R&T organizations Savannah River Technical Center, Pacific Northwest National Laboratory (PNNL), and GTS Duratek in quality assurance activities.
- Modified the QAP to clarify organizational responsibilities noted in the OSR evaluation.

ACCOMPLISHMENTS/PROGRESS

Quality Assurance (cont.)

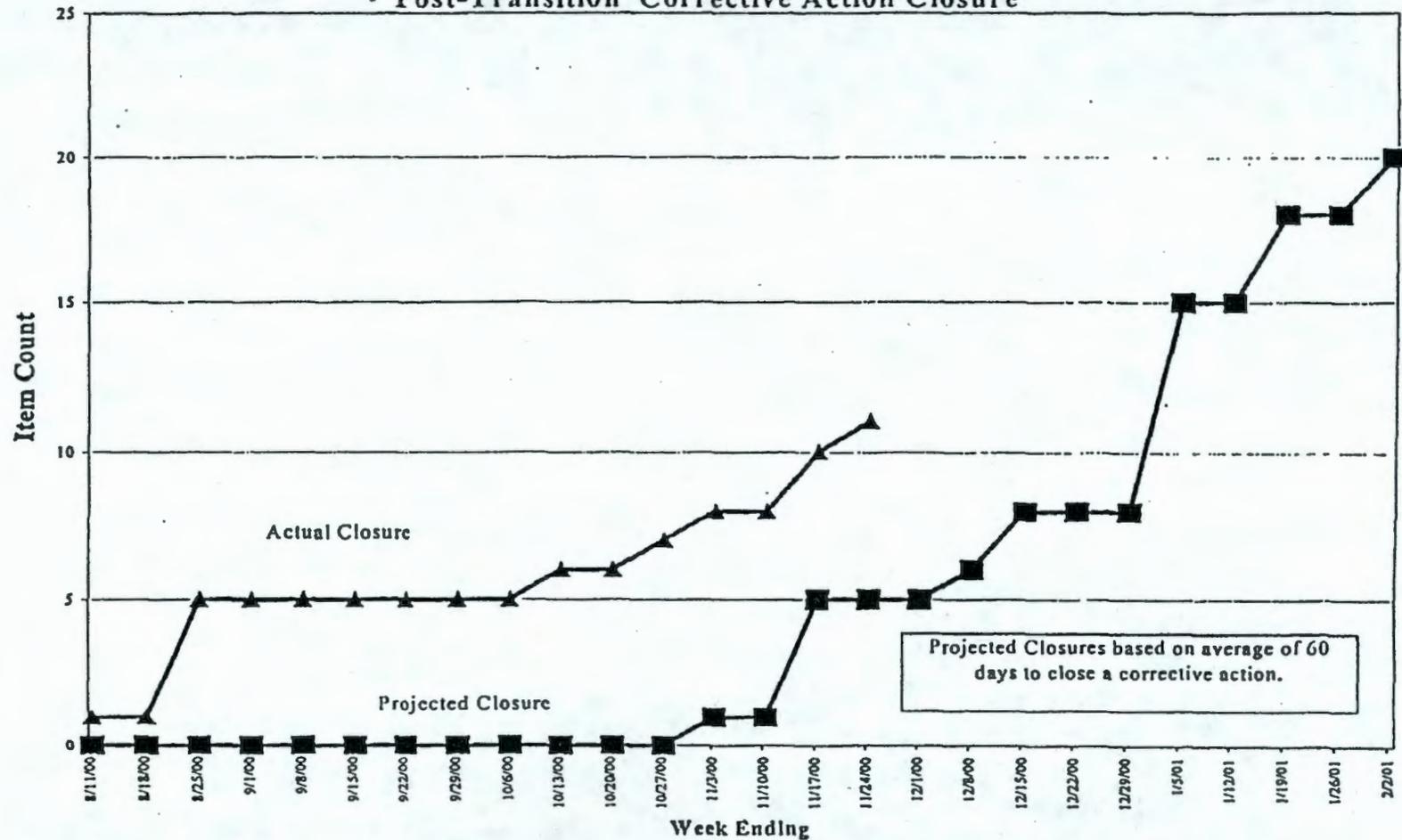
Legacy Corrective Action Closures



ACCOMPLISHMENTS/PROGRESS

Quality Assurance (cont.)

Post-Transition Corrective Action Closure



ACCOMPLISHMENTS/PROGRESS

Information Technology

- Developed applications to provide web (internet) viewing of the BNFL Inc., April 24, 2000, deliverables, and provided instructions for use to ORP.
- Installed three computers required by ORP to view Aspen, G2, OR, and 3-D models. The 3-D model viewing software was loaded on one of the computers (reference 3.5.9 Interim Design SOW).
- Received a new version of ProjectWise (3.1.1) solving many issues. Testing is complete. Bentley Consultants were brought in to address problems raised during the implementation.

Human Resources

- CHG currently has 200 employees, and 302 contractor personnel on the WTP project for a total of 502. ORP approved an increase to 563 employees, plus any required discrete tasks that end before transition is complete.
- One employee concern from September was closed on November 13, 2000.

Project Document Control

- Completed receipt, checking, and processing of proprietary drawings from BNFL Inc. The drawings are now available to the project.
- Completed review and filing of SOW 6.4 and 6.5 deliverables.

Facilities Management

- A property inventory was conducted. Results will be transmitted to DOE as justification for DOE-ORP to buy the equipment from BNFL Inc., and tag as government property.

SUMMARY OF COST AND SCHEDULE VARIANCES

Cost

- The favorable cost variance of \$7.0M results from fiscal year start-up issues with placing new contracts, and not receiving actual costs or re-accruals for FY 2000 contract work. In addition, FY 2001 cost account charge numbers (CACN's) were not established until mid-October, and the majority of man-hours were charged to the FY 2000 Transition CACN's. While these costs are included in the overall WTP October data, inaccuracies by Work Breakdown Structure level resulted. Labor corrections have been initiated to transfer hours/costs to the appropriate FY 2001 CACN's. It is projected that the actual costs for October were approximately \$10.0M vs. the \$7.0M costed. A concerted effort is being made to ensure contract accrual information for Accounts Payable is provided.

Schedule

- The unfavorable schedule variance is primarily due to restrictions on increasing manpower. ORP and CHG developed a strategy to increase subcontracted staff by 70 FTE's above the project size at August transition, plus others for discrete tasks. Additional schedule variance details are provided on Page 19 of this report. In addition, the October statused P3 schedule is maintained on the network path file: RL-APP\PROJCONTROLS\FY01Baseline: CU00.

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
1.	The work scope for Operations needs further definition in the FY 2001 SOW from ORP for either the interim design period, or after contract transition to the new A/E.	Path forward for Operations scope is not definitive.	CHG will prepare a proposal to develop Operations, Maintenance, Commissioning and Training philosophy and requirements documents for ORP.	Open
2.	Nuclear and Process Regulatory relationships are not yet established.	Potential effects on resuming work that is important to safety, and in revising AB related, and design documents.	ORP to provide direction to CHG.	Closed. Incorporated and revised.
3.	GTS-Duratek Pilot Melter.	Impacts capability to perform melter R&T.	ORP will resolve ownership of melter and authorize resumption of SOW.	Open Awaiting ORP resolution.
4.	Resolution of BNFL Inc., intellectual property issues.	Design progress and transition to new A/E/C could be jeopardized.	ORP has directed the evaluation of IP documents.	Open Response due 12/15/00.
5.	Extensive DOH/DOE comments on Site Sewage System from April 24, 2000, Deliverables Review.	Initial review of comments indicates a major redesign effort and a larger drain field is required.	The BOF C/S/A group is coordinating with ES&H to resolve comments. Design work may require subcontract support due to limited resources.	Open. DCA may be required due to potential cost increase of the system.
6.	IBC (resin technology) and CHG cannot agree on contract terms.	Potential six-month delay to contract start, and a delay in R&T activities.	CHG formally requested disposition or approval to pursue alternate vendors.	In Progress
7.	Flowsheet work restricted by inaccessibility to other Site staff (Numatec) for OCI reasons.	Unable to develop system-wide flowsheet model that integrates Site with WTP.	Continue work when procurement issues are no longer sensitive.	In Progress

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

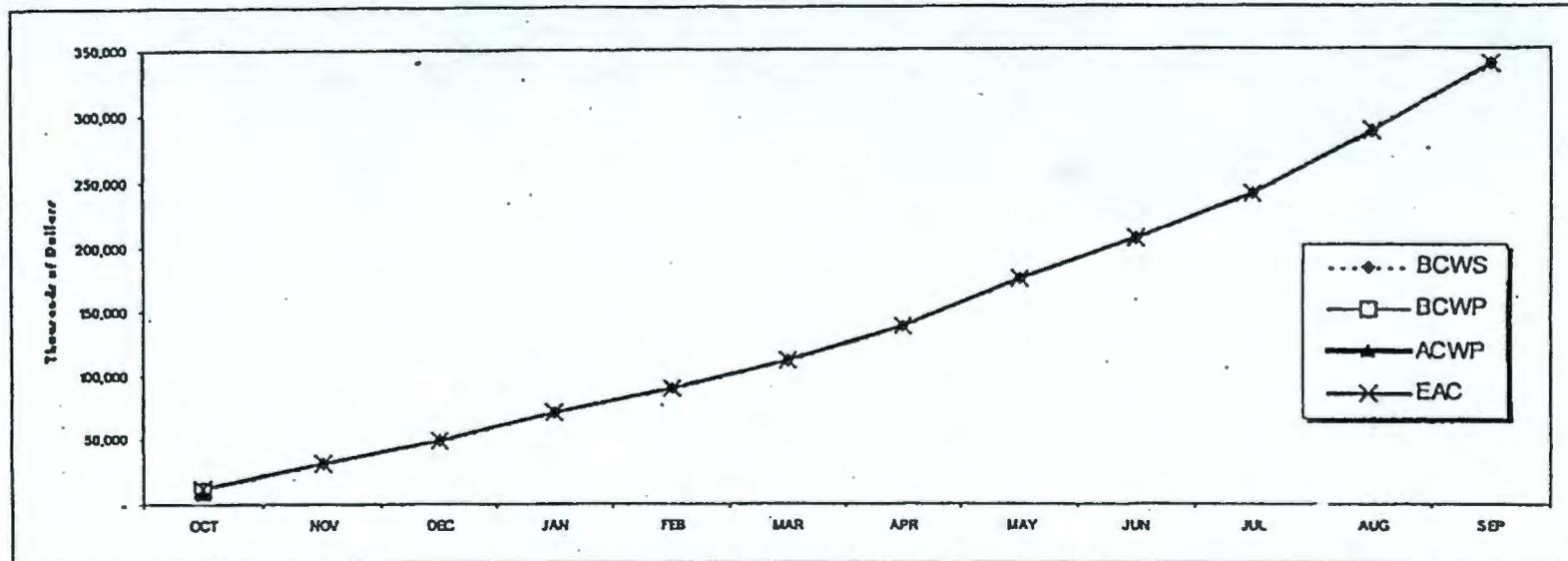
	Potential Problems	Impact	Course of Action	Status
8.	Poor linkage discovered between flowsheet and other design documents (PFDs, Datasheets, process calculations).	Uncertain pedigree of "Basis of Design."	Problem being addressed as part of larger requirements issues.	In Progress
9.	Vessel vent carry-over may cause excessive particulate carry-over to the HEPAs.	Excessive HEPA change-out required to maintain the ALARA requirements for the contact maintenance HEPA area.	Study underway to evaluate change from contact maintenance to remote change for HEPA filters.	In Progress
10.	CAD software inconsistencies remain from reconstructing the configuration control and software interface tools not handed over from the previous contractor.	Problems with Microstations "ProjectWise" prohibited designers from performing their jobs on time. P&IDs ended the month approximately 2 weeks behind schedule.	Both IT and Automation Group personnel have been working on the issues. Continue full-time Bentley support and schedule designer meetings.	In Progress
11.	Incomplete LAW design work in Container and Pour Cave Cooling Design.	Verification of design for related systems/areas will be incomplete.	Analyze/Model and finalize LAW container design.	In Progress
12.	Lack of 3-D training across the project.	Lack of adequate training requested in the use of 3-D model promotes 2-D design applications that circumvent the project concept of a "single 3-D model." Disciplines all need to reference the 3-D model in TriForma and PlantSpace under the specific building vault in "ProjectWise."	Establish Training Schedule. Functional Engineering issue direction to all Disciplines to use 3-D model.	In Progress

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
13.	The WTP project relies heavily on subcontract personnel for staff augmentation. The administration of monthly contract accruals, reversals, and invoice payments for approximately 195 contract releases has caused a backlog in system and administration processes.	The inability to process contract related documentation will result in inaccurate reporting of monthly costs.	A senior management team has been established to identify options to expedite accruals/payments processed through the HANDI cost reporting system.	Open

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

COST/SCHEDULE PERFORMANCE - CHG



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PERFORMANCE MEASUREMENT BASELINE												
BCWS	11,625	19,581	18,136	21,241	18,903	22,459	26,225	37,111	30,981	33,812	48,097	49,401
BCWP	10,243											
ACWP	7,027											
ETC	11,625	19,581	18,136	21,241	18,903	22,459	26,225	37,111	30,981	33,812	48,097	49,401
YEAR TO DATE												
BCWS	11,625	31,206	49,342	70,583	89,486	111,945	138,170	175,281	206,262	240,074	288,171	337,572
BCWP	10,243											
ACWP	7,027											
EAC	11,625	31,206	49,342	70,583	89,486	111,945	138,170	175,281	206,262	240,074	288,171	337,572

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

COST/SCHEDULE PERFORMANCE - CHG

Schedule Variance		
WBS Level 6	WBS Level 6 Title	
1.1.6.5.1.2	O&M Project Management	Activities in support of construction procurement were not initiated due to the lack of personnel and staff restrictions. Scope will be deferred to March and a revised schedule will be submitted for ORP approval.
1.1.6.5.2.2	O&M Interim Design LAW Facility	HVAC activities were not able to execute activities due to staff restrictions. A revised schedule will be submitted for ORP approval.
1.1.6.5.2.4	O&M Interim Design Balance of Facilities	Restrictions on increasing manpower and delays in obtaining required software prevented tasks for progressing as planned. Software has been obtained. Staff shortages are being resolved, and revised schedule will be submitted.
1.1.6.5.2.6	O&M Interim Design Operations Support & Optimization Study	Staff support was not available to progress tasks as scheduled. Staff and activities have been realigned.
1.1.6.5.2.7	Research & Technology	Contract issues between DOE-ORP and the IBC were not resolved and scheduled tasks could not be initiated.
1.1.6.5.3.1	Operations-FY2001	Tasks in support of general Operations activities were not initiated due to restrictions on increasing manpower. A re-evaluation of scope has been performed and staff reductions have been proposed. A revised schedule will be submitted for ORP approval.
1.1.6.6.1.3	D&C Construction Management	Tasks were not initiated due to restrictions on increasing manpower. Staff shortages are being resolved and revised schedule will be submitted for ORP approval.
1.1.6.6.1.6	D&C ES&H	Regulatory Safety, and Safety Analysis groups did not support baseline activities as planned. Efforts to support the OSR evaluation required a re-prioritization of activities.

STATUS OF DECISIONS

Nothing to report.

90-DAY LOOK AHEAD

Management

- Disposition open action and formal comments submitted by DOE on the BNFL Inc., deliverables (1/15/01)
- Complete BNFL Inc., IP assessment (12/15/00)
- Complete negotiation of Transition Plan with ORP (Target 12/15/00: SOW Date 1/15/01)
- Complete negotiation of revised ORP Statement of Work (11/29/00)
- Resubmit negotiated Statement of Work to ORP (12/05/00)
- Submit revised work plan to ORP (12/01/00)
- Start transition activities (1/15/01)

ES&H

- Submit the design and construction Radiation Protection Program to DOE for review and approval (11/00)
- Submit LCAR Letter for Phase 1 (not ITS Construction Activities) (12/00)
- Provide ORP draft air permitting documents for temporary facilities construction (11/00)
- Prepare air emissions estimate (1/01)
- Environmental requirements input to design criteria database (12/00)
- Prepare redlines of waste management ICDs (12/00)

Construction

- Complete schedule integration effort (1/15/01)
- Initiate development of procurements packages for long-lead items, including design build packages for temporary facilities, underground electrical distribution, underground piping distribution network, and select contractor for Emergency Mobile Sirens to support beginning Construction (1/15/01)

Overall Design

- Complete update and organization of design media in accordance with the requirements of the SOW (11/00)
- Resolve DOE comments on the BNFL Inc., April 24, 2000, submittal (12/00)

90-DAY LOOK AHEAD

HLW

- Incorporate Rev. E Drawings (1/16/01)
- Update VFD's and Zoning Diagrams (1/15/01)
- Update Holes-in-Walls and Cave Face Drawings (11/28/00 and 12/28/00)
- Update Mechanical Handling Calculations (1/28/01)
- Develop Canister Level Instrument Specifications (11/30/00)
- Develop Electrical Heat Loads (12/28/00)
- Complete Design Studies Weld Machine (11/03/00), Melter Movement (11/17/00), and Lower Melter Airlock Rails (12/19/00)

LAW

- Establish technical baseline estimates and schedule (11/15/00)

Balance of Facilities

- Start BOF design reviews(12/4/00)
- Complete Phase 2 Site Plot Plan (11/29/00)
- Start work on site improvements and utility distributions (11/14/00)
- Complete Phase 2 general arrangement for the Melter Assembly Building (11/16/00)
- Develop preliminary Chiller/Compressor Plant 3-D model (1/12/01)
- Complete Phase 2 general arrangement for the switchgear building (12/21/00)
- Start building specification for the Administration Building (12/14/00)
- Start update of Process Air system drawings (11/27/00)
- Update Chiller/Compressor Plant facility description (1/03/01)

Operations

- Transition training database (1/15/01)
- Identify the function requirements of the facility from an operator's perspective in the Functional Specification (Draft 11/30/00, Final 1/15/01)
- Prepare preliminary operations requirements documents for DOE review and concurrence based on RPP-WTP April 24, 2000, design (01/15/01)

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

90-DAY LOOK AHEAD

Quality Assurance

- Complete closure of legacy corrective action backlog (1/31/01)
- Complete development of procedures K70P531, "High-level Waste Acceptance Items and Activities," and K70P567, "Graded Approach."

Engineering/R&T

- Issue the material balance for the air permits, and prepare the transfer of configured ACM, WITNESS, and G2 (1/01)
- Issue the draft Interface Management Plan, and draft updated Interface Control Documents (12/00)
- Issue the following Optimization Studies:
 - Thin-walled HLW Canister Letter Report (12/00)
 - Evaporator Assessment Optimization Study (12/00)
 - Management of Ion-Exchange Resin Letter Report (12/00)
 - Process Control Strategy Optimization Study (12/00)
 - Reduce Cost for Ammonia Supply Letter Report (12/00)
 - Assessment of Waste Feed and Buffer Storage Tank Capacities Optimization Study (1/01)
- Issue the Waste Form Compliance Plan (12/00)
- Issue the Waste Qualification Report (1/01)
- Issue the Product and Secondary Waste Plan (1/01)
- Issue all of the BNFL B-1 Test Reports (1/01)

CHANGE CONTROL LOG

Nothing to report for October.

CH2M HILL
Hanford Group, Inc.
P. O. Box 1500
Richland, WA 99352

December 28, 2000

CCN # 017184C
CHG-0007163

Mr. W. J. Taylor, Assistant Manager
Systems Aquisition
U.S. Department of Energy
Office of River Protection
Post Office Box 450
Richland, Washington 99352

Dear Mr. Taylor:

CONTRACT NUMBER DE-AC27-99RL14047; PROGRESS REPORT – NOVEMBER 2000

CH2M HILL Hanford Group, Inc., Tank Waste Treatment Project is pleased to submit the Monthly Progress Report. The attached report identifies the progress of the River Protection Project – Waste Treatment Plant for the month of November 2000. This report contains information with the financial cutoff date of November 30, 2000.

If you have any questions, please contact Mr. R. D. Wojtasek at 371-3742, or Mr. M. W. Wells at 371-3033.

Very truly yours,



J. O. Honeyman, Senior Vice President
Tank Waste Treatment Operations

dlt

Attachment

CCN# 017184C
CHG-0007163

Attachment

MONTHLY PROGRESS REPORT, NOVEMBER 2000
RPT-W375-MG00073, REV. 0

Consisting of 30 pages
including coversheet

CH2MHILL

Hanford Group, Inc.

RIVER PROTECTION PROJECT – WASTE TREATMENT PLANT

***DOE Monthly Progress Report
November 2000***

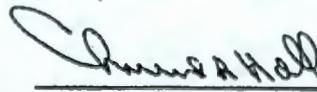
RPT-W375-MG00073, Rev. 0

Contents

- Overall Management Assessment
- Accomplishments/Progress
- Summary of Cost and Schedule Variances
- Potential Problems, Impacts, and Course of Action
- Cost and Schedule Performance
- Status of Decisions
- 90-Day Look Ahead
- Change Control Log



J. O. Honeyman, Senior Vice President
Tank Waste Treatment Operations



C. A. Hall, Senior Vice President
Tank Waste Treatment Interim Design

OVERALL MANAGEMENT ASSESSMENT

- No first-aid cases, or reportable accidents or injuries occurred during the month of November.
- Excellent U.S. Department of Energy (DOE), Office of River Protection (ORP) and CH2M HILL Hanford Group, Inc. (CHG) teamwork continues. Notable products include the finalization of the ORP Statement of Work (SOW); completion of the fiscal year (FY) 2001 WTP Baseline Work Plan, Scoping Statements, and Baseline Change Request; and submittal and negotiations of the WTP Transition Plan. Plan concurrence was provided 30 days early. (See "Transition" below)
- Continued performance of Important-to-Safety (ITS) work. The Office of Safety Regulation (OSR) evaluation of project readiness was very positive (See "OSR Interface" below).
- Completed SOW Sections 6.4 and 6.5 of the "Direction for Interim Design Services for the Waste Treatment and Immobilization Plant (WTP)," and submitted the package to DOE-ORP.
- Performed seven Design Reviews on selective plant systems. Reviews include review of basis for design requirements.
- The WTP continues to have no training delinquencies.
- Began effective Transition dialogue with the new WTP A/E Bechtel Washington.
- Provided redline markups for various interface control documents (ICDs)(Statement of Work [SOW] 10.2.2) including the ICD for radioactive and dangerous liquids (ICD-6), entrained solids (ICD-16), low-activity waste feed (LAW) (ICD-19), and high-level waste feed (HLW) (ICD-20).
- Completed Baseline Change Request (BCR) for procurement of two emergency mobile sirens. DOE approved change.
- The Product and Secondary Waste Plan was issued to ORP as Rev. 0a on December 15, 2000. (SOW Section 8.1, Item #1)
- Provided responses to the last set of RU comments on the RPT-W375NS00001, Rev. 1, "Methods for Assessing Consequences of Potential Accidental Radiological Releases," from the WTP.
- The Functional Specification was delivered to DOE on November 30, 2000. Comments from DOE are expected by December 15, 2000. Those comments will be incorporated, and the document resubmitted by January 15, 2001.
- Seventeen corrective action closure packages were provided to OSR. These support the upcoming OSR inspection of WTP corrective action implementation for past inspection findings.
- ProjectWise Version 3.1.1 was placed into production for drawing configuration management.
- Satisfactorily demonstrated the flowsheet models (Aspen Custom Modeler [ACM], G2, and Operational Research [Witness]) to DOE personnel. (SOW 6.5.9)

OVERALL MANAGEMENT ASSESSMENT (Cont.)

OSR Interface

The report for the Evaluation of CHG's Capability to Safely Initiate changes in the River Protection Project Waste Treatment and Immobilization Plant Authorization Basis, was received from the ORP. Several positive comments were made in the report:

- Personnel Qualifications and Training – “Personnel qualifications were well documented and had been verified by CHG staff. The training and qualification records were improved from those of BNFL.” The team conducted a sampling review of these records and found no discrepancies. The records were comprehensive. The reviewers observed that all information requested from the training database during the evaluation was complete. With respect to qualification program procedures and policies, the reviewers found that the previous applicable BNFL procedure, K21P010, “Personnel Selection,” had been cancelled and replaced with procedures HNF-PRO-366, “Personnel Suitability Investigations,” and HNF-PRO-021, “Employment and Personnel Placement.” The reviewers evaluated the replacement procedures and found that they will likely enhance the consistency of the personnel selection process. The reviewers concluded that the QA portion of personnel training and qualification transition between BNFL and CHG was effective, that BNFL commitments in this area were maintained, and that the requirements of the AB were met. It was noted CHG had issued the necessary AB procedures and policies, had trained personnel to maintain the AB, and advanced the design consistent with AB requirements.
- Employee Concern Program – The team concluded that CHG's ECP activities “were well publicized and employees were aware of the key elements of the program.”
- Project Document Control – “The PDC maintained excellent configuration control of RPP-WTP records across the BNFL-to-CHG transition.” The reviewers extensively tested database and retrieval systems with no issues found.
- Procedure Improvements – The reviewers determined that “the CHG changes to the corrective action procedure were significant improvements.” The reviewers evaluated 18 QA procedures and found all had been effectively changed (some were improved) and available for use. The reviewers found that the management assessment procedure was significantly improved.

Transition

CHG submitted the draft Transition Plan to ORP November 30, 2000. The plan assumes a January 15, 2001, transition start date and February 28, 2001, completion date. Several pre-transition and preparatory activities are scheduled during the December – January 15, 2001 timeframe. These include planned interactions with WTP Contractor to align proposed transition processes. A key assumption in the Transition Plan is for CHG to retain control and maintenance of the Authorization Basis (AB) until the WTP Contractor is approved by ORP to perform Important-to-Quality (ITQ) and ITS work. Personnel transition described in the Transition Plan is based on prioritized transfer of personnel and systems that can assist WTP Contractor's readiness to perform ITQ and ITS work; balance of personnel are proposed to be transferred when ORP authorizes WTP Contractor to assume control of AB.

ACCOMPLISHMENTS/PROGRESS

PROJECT

Overall Design Group

- Updated the cost and schedule baseline to reflect staff ceilings and final SOW.
- Participated in the preparation of the CHG transition plan by providing planning information for the transition of design work to the new Waste Treatment Plant (WTP) contractor.
- Completed all deliverables for SOW 6.4 and SOW 6.5 by the due date of November 30, 2000.
- Introduced "Plant Space Instrumentation" (PSI) – the new Instrumentation & Control (I&C) database to the project groups.
- Establish progress goals effective January 15, 2001, and submit to DOE.
- Award contract and initiate work on BARCT and T-BACT. SOW 7.3b (12/11/00)
- Initiate work on BACT. SOW 7.3b (12/11/00)

Balance of Facilities

- Started work on Process Air System changes (SOW 6.6.9).
- Continued development of drawings showing the general arrangement of the Melter Assembly Building (SOW 6.6.11.2).
- Completed assessment of layout impacts for the Pretreatment/LPP option study (SOW 6.7.3).
- Continued work on an update of the Site Plot Plan (SOW 6.6.11).
- Completed conceptual sewer system redesign to meet Department of Health comments and coordinated with cost estimating to assess impact (cost and schedule) of the potential design change (SOW 2.3 and 6.6.11).

ACCOMPLISHMENTS/PROGRESS

Pretreatment

- Continued Development of Layout drawings and other materials to support a future baseline change proposal for the new WTP contractor to optimize the efficiency of the WTP by combining the LPP and PT buildings into a single facility.
- Issued for internal review preliminary layout drawings of the combined PT/LPP building, with Tc removal, in support of the LPP Elimination Optimization Study.
- Continued resolving design issues with the Pretreatment (PT) Vessel Vent system. Developed an alternative design expected to correct the deficiencies found in previous reviews. An engineering report was drafted and distributed for review. A draft Design Change Application was initiated for coordination.
- Initiated Drawing Change Notice (DCN) for review recommending use of a vacuum conveying method to replace the bucket elevator to provide fresh resin to the slurry vessel.
- Provided Sampling Analysis Documentation for the Analytical Laboratory Facility to DOE on November 30, 2000 (SOW 6.6.10.4).
- Continued model development for vessels to support development of procurement packages.
- Initiated preliminary analyses to evaluate structural issues for the newly configured PT Building.

HLW Vitrification

- Completed calculation on all WTP environmental loads (wind, snow, volcanic ashfall) other than seismic.
- Provided Design Study Crane Capacity, and Crane Materials of Construction design studies routed into the Multi-Discipline design review process.
- Drafted three Tank Focus Area RPP needs statement for consideration: contamination survey of West Valley cell crane, general in-cell areas; spent component vertical distribution and intensity and melter lid; West Valley melter and SBS pressure fluctuations with a fast response melter and data logging; and measurements of the noble metals sludge depth using all of the available lid nozzles for better estimating the volume of accumulated noble metals.
- Completed sketch of reliability fault tree model for HLW Glass Former makeup and Addition System.
- Prepared System Breakdown Structure (SBS) Cooling Jacket/Coil Sizing Calculations.
- Issued HLW Melter Feed System: "Expanded Capacity Study," ES-W375HV-PR00004, and associated calculation.
- Prepared four impact assessments for HLW Melter Off-gas Design Change Applications.

ACCOMPLISHMENTS/PROGRESS

LAW Vitrification

- Completed multi-discipline design reviews for LAW glass pour systems (221-226), container handling systems (311, 312, 313, and 314), and finishing line and export systems (331, 332, and 340) (SOW 6.6.7).
- Issued Design Calculations and Analysis (DCA) (DCA-W375LV-00-00018) for redesign of finishing line container handling equipment. This DCA supports Impact Assessment and development of Cost Trend (SOW 6.3).
- Completed and distributed Engineering Study of Finishing Line Layout (RPT-W375LV-M00022, Rev. 0) for review (SOW 6.7.1).
- A DCA is being produced to document the changes to the electrical distribution system. A draft revision to the Single Line Diagrams (SLD's) and the associated Design Input Memorandum (DIM's) will be issued for review January 15, 2000, (SOW 6.5.1, 6.6.9.8).
- Major electrical equipment requirements are being identified for use as the basis for specifications (SOW 6.6.9.8).
- Issued eighty-five Process and Instrumentation diagrams (P&ID's) with DIM's and Drawing Revision Records (DRR's).
- Completed the draft Occupancy Classification and Fire Separation Analysis for UBC Code compliance based on Revision "C" of the General Arrangement Drawings for LAW.

Construction

- P3 Construction Schedule Integration and analysis continued.
- Provided input to ES&H regarding the LCAR submittal and other permitting activities. ES&H submitted the Phase 1 LCAR letter to DOE the week of December 11, 2000.
- Established a revised baseline for Construction activities during the Interim Design Contract based on revised SOW and allowable resources.

ACCOMPLISHMENTS/PROGRESS

Engineering

- Resolved 197 of 199 comments from the U.S. Department of Energy, Office of River Protection (ORP) on the Waste Form Compliance Plan. Two remaining significant issues are (1) waste type definition, and (2) product composition control strategy. Optimization study will solve issue (2). Discussions to solve issue (1) ongoing.
- An initial draft of the Product Composition Control Strategy optimization study has been completed, and is currently being reviewed.
- A recommendation for a Waste Form Qualification Report database is being prepared for the new contractor.
- A basic definition of the Technical Baseline was established (SOW 6.1).
- An assessment of BNFL Inc., Intellectual Property was completed on December 15, 2000, vs. scheduled completion of December 22, 2000. (SOW 2.16)
- Briefed DOE on status of the LPP Elimination study with new layouts.
- The Basis of Design (BOD) is being updated to include environmental requirements. On schedule for issue December 29, 2000.
- Participated in seven design reviews.
- Completed validation and verification (V&V) of main structural analysis computer program – Georgia Tech Structural Design Language (GT STRUDL).
- Updated the ICD for ILAW (ICD-15) to incorporate DOE comments and contract related changes. The ICD will be submitted to DOE for review on December 15, 2000, (SOW 10.2.4).
- Prepared an updated integrated DRD similar in format and level of detail to the original deliverable B-1-6, submitted by BNFL Inc., to DOE on November 17, 1998. Product does not contain risk register materials. SOW 5.1 (12/04/00)

Environmental, Safety & Health

- Met with Fauske and Associated to identify accident scenarios likely to require computer modeling via the HADCRT code, and to discuss areas of the code requiring modification or augmentation to meet our needs on DBE development.
- Conducted meetings with the OSR on the LCAR submittal and the Radiation Exposure Standards (RES) contained in the Authorization Basis (AB). Preliminary agreement was reached on the phased submittal of the LCAR. Agreement was also reached that the inclusion of facility worker dose consequence as a determination for ITS SSC designation was overly conservative. CHG agreed to prepare a position paper and propose an AB change to the OSR.

ACCOMPLISHMENTS/PROGRESS

Environmental, Safety & Health (cont.)

- Submitted the “Regulatory DQO Test Plan for Determining Method Detection Limits, Estimated Quantitation Limits, and Quality Assurance Criteria for Specified Analytes” to DOE for approval.
- Initiated development of the “Regulatory Data Quality Objective: Sample Compositing Strategy.”
- Issued the “Approach to Immobilized High-Level Waste Delisting” document (RPT-W375HV-EN00001, Rev. 1). The document recommends an approach for delisting immobilized high-level waste (IHLW) from RCRA, Subtitle C, hazardous waste management regulations and corresponding State of Washington regulations governing the management of dangerous waste. The revision was made to incorporate changes and comments received from DOE-ORP on May 17, 2000. The revised document was transmitted to DOE-ORP on December 1, 2000.
- Progressed with development of an Integrated Emissions Baseline Report to estimate stack emission rates for 470 constituents of potential concern. The methodology for estimating these emissions was presented before the ES&H IPT meeting on November 28, 2000. The emissions report is scheduled to be completed January 31, 2001.
- Issued revised responses to the Dangerous Waste Permit Application (DWPA) Notice of Deficiencies (NOD) received from Ecology, to DOE-OPR for delivery to Ecology in accordance with SOW Section 7.2.
- Issued draft Notice of Construction and New Source Review for excavations supporting establishment of temporary construction support facilities in accordance with SOW Section 7.3 (b).
- Held a workshop with Ecology and the U.S. Environmental Protection Agency on November 1 and 2, 2000, to resolve their comments submitted on the Risk Assessment Work Plan. Began developing revised responses to their comments based on the outcome of the workshop.
- Conducted a stack height analysis for the PT and laboratory stack to determine if the current design height can be lowered without impacting air quality.
- The Environmental Requirements Chapter for the Basis of Design was informally provided to ORP in parallel with the CHG internal review. Incorporation of environmental requirements into the Basis of Design and the Design Criteria Database are on schedule for the end of December 2000, in accordance with Sections 6.5.6, and 6.5.7 of the SOW.
- Waste Management Interface Control Documents were updated for Integrated Management Team reviews in November, and were transmitted to DOE December 15, 2000, in accordance with SOW Section 10.2.2.
- Submitted the design and construct Radiation Protection Program to the DOE for approval. The November submittal will allow for the authorized 180-day review period, and still permit limited construction to begin June 2001.

ACCOMPLISHMENTS/PROGRESS

Environmental Safety and Health (cont.)

- Initiated work on Best Available Control Technology (BACT), Best Available Radionuclide Control Technology (BARCT), and Toxics Best Available Control Technology (TBACT) (December 11, 2000).
- Excavation Radionuclide Air Emissions NOC was submitted to ORP.
- Excavation New Source Review (NSR) was submitted to ORP.
- Submitted DOE Assessment Methodology to OSR.

Operations

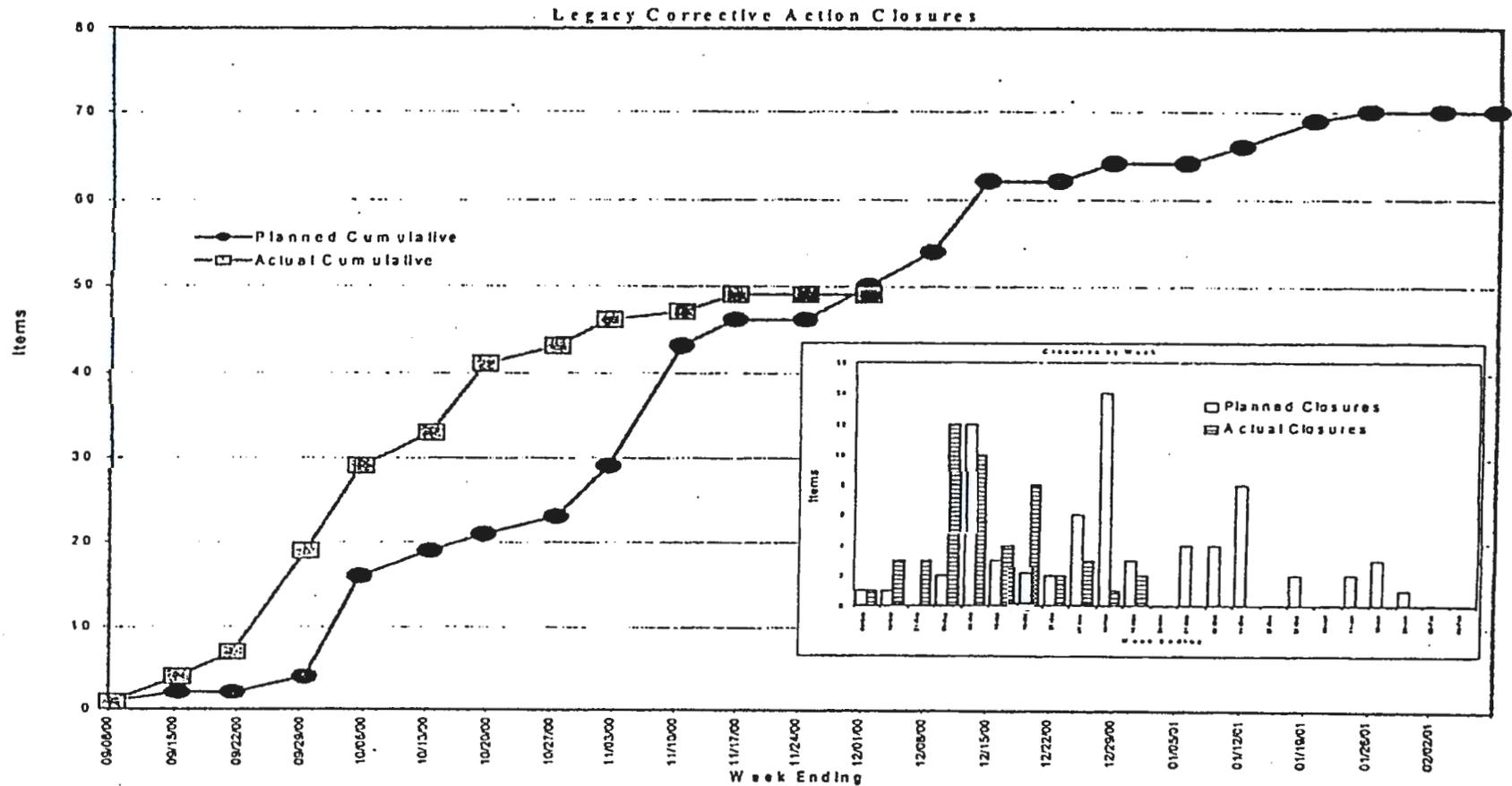
- A draft of the Training and Qualification Plan was developed by Columbia Technology Associates for the Construction and Operations phase of the WTP Project. The plan will be reviewed internally during December 2000, with a final draft due date of January 15, 2001.
- The Preliminary Operations and Maintenance Requirements Document will go to technical editing by December 14, 2000. This activity is on schedule for a January 15, 2001, due date.
- Evaluation and resolution of open comments received from ORP on BNFL Project deliverables is proceeding. Completion expected by February 28, 2001.

Quality Assurance

- Aggressive progress on the closure of legacy open corrective actions continued. Although only six items closed in November compared to 23 planned for closure, a number of November items were closed in prior periods. Of 70 total, 49 have now been closed. Planned closures in December will maintain the schedule.
- Issued "RPP-WTP Quality Assurance Program," Rev. 7, incorporating revisions to organization titles and responsibilities.
- Developed a draft computer based training module for procedure K70P567, "Graded Approach."
- Completed and issued procedure K70P531, "Waste Acceptance Items and Activities."
- Reviewed, provided comments, discussed resolution, and approved PNNL Quality Assurance Project Plan for RPP-WTP Project.
- A review of past work performed with inadequate QARD procedures was completed. Seven approved drawings require detailed assessment to determine acceptability. This assessment will be completed in December 2000, and complete a response to an ORP Corrective Action Request.

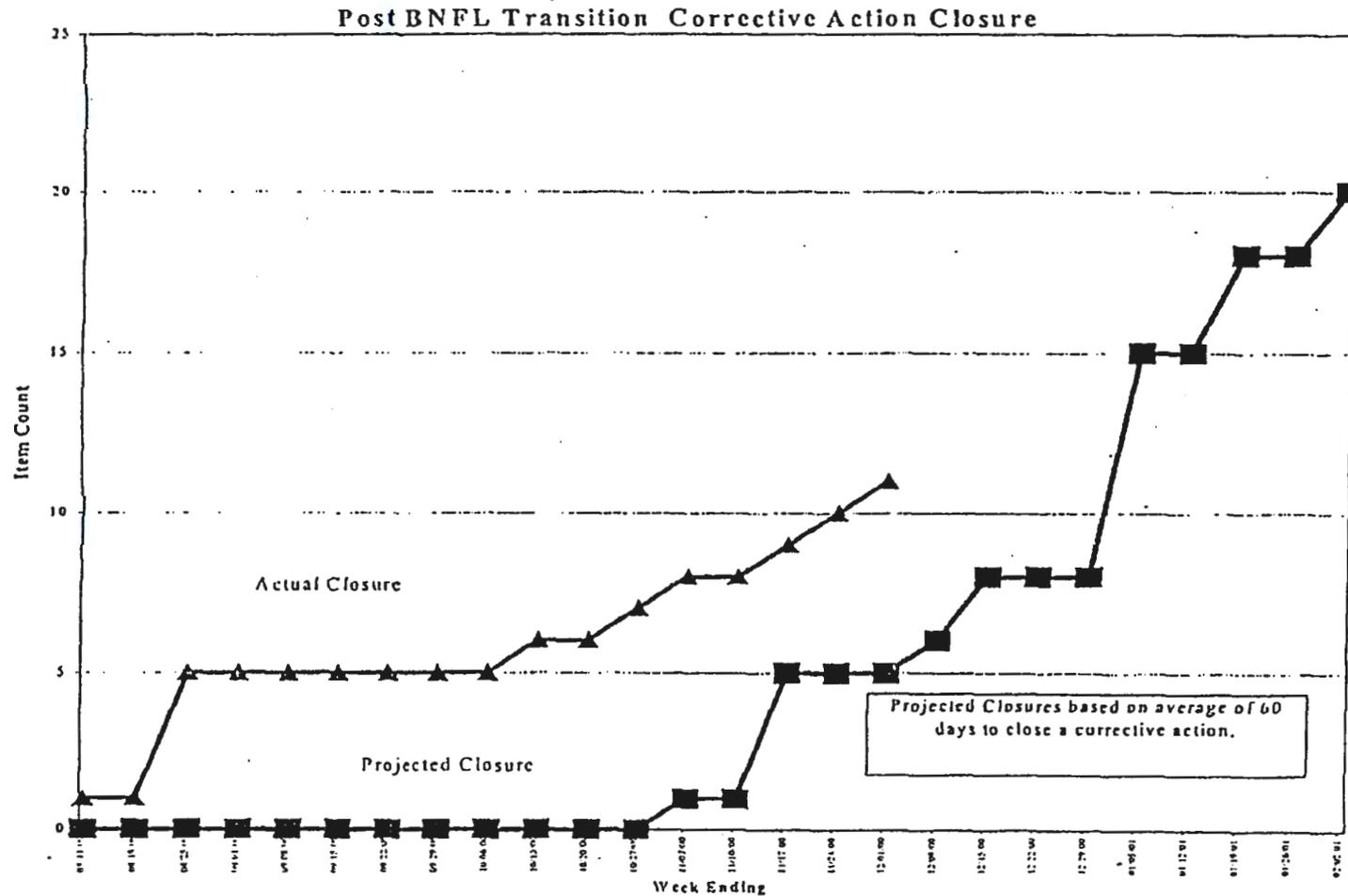
ACCOMPLISHMENTS/PROGRESS

Quality Assurance (cont.)



ACCOMPLISHMENTS/PROGRESS

Quality Assurance (cont.)



ACCOMPLISHMENTS/PROGRESS

Information Technology

- ProjectWise Version 3.1.1 was placed into production for drawings configuration management.
- Procurement for additional CAD computers and Bentley licenses were submitted to accommodate the projected increase in staff.
- Completed the Altris Viewer allowing the user to view multi-page "tiff" files within Altris. Currently in the testing phase.
- Identified and resolved the performance issues with the Altris Front End Data Capture Screens and the Eb Capture Scanning software for documents control.
- Completed approximately 30 Software Change Requests on the Training Database which are in the testing phase.
- Completed the automatic e:mail notification system that will notify WTP employees when they are required to read a new or revised procedure. This is currently in testing.

Human Resources

- CHG currently has 194 employees and 366 subcontractor personnel on the WTP project for a total of 560. This is an increase of 58 since October 2000. ORP approved an increase to 563 employees plus required discrete tasks estimated at approximately 40 full-time equivalents (FTE's) that end before Transition is complete. CHG will continue to acquire the remaining 40-45 FTE's.
- One prior new employee concern remains open. Closure expected by January. No new employee concerns filed during period.

Project Document Control

- Demonstrated and provided instructions for DOE to access SOW Sections 6.4 and 6.5 deliverables electronically through the PDC electronic Document Management System.
- Compiled/edited the CHG Transition Plan.

Facilities Management

- A Master Space Plan has been developed. Five hundred sixty-three of the 851 spaces in the Main/MPF/ETC-1 are occupied. While 288 cubicles/offices are open, many areas such as Operations/QA/Engineering are full.

ACCOMPLISHMENTS/PROGRESS

Subcontracts and Procurement

- During the period, 115 new requisitions were received, 33 subcontracts were awarded, and 38 notices-to-proceed were issued. Complete subcontracts definitization is expected by January 15, 2001.

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

SUMMARY OF COST AND SCHEDULE VARIANCES (Excluding SRTC)

Cost (+\$15,623K)

- Fiscal year priorities to staff for SOW, develop baseline, OSR Preparation, and Transition Plan preparation resulted in startup issues with placing subcontracts and not receiving actual costs or re-accruals for FY 2000 contract work resulting in the favorable cost variance. It is projected that the actual costs through November were approximately \$17.4M vs. the reported \$8.3M. Costs not reported included GTS-Duratek (\$1.9M), PNNL (\$1.2M), and subcontracted design support (\$1.5M). In addition, ~\$4.5M of FY 2000 reversals were not re-accrued. To correct, all subcontract releases will be authorized by December 16, 2000, and a focused detailed accrual matrix has been prepared to assure accuracy of year-to-date through December 2000 costs.

Schedule (-\$7,260K)

- Original baseline submitted by CHG, in accordance with initial SOW, assumed no limit on staff and a work plan was prepared that averaged ~777 FTE's. Due to subsequent negotiations of staff ceilings in October/November 2000, and revised SOW, planned tasks were not initiated as originally planned. Activities deferred include Research and Technology development, Facility Design, selected Optimization Studies, Construction Procurements, and Construction/ES&H Management tasks. ORP and CHG agreed to a strategy in November 2000, to increase average staff to only 563 FTE's (plus discrete tasks). November 2000 actuals were 560 FTE's. A revised work plan and schedule will be submitted by CHG and expected to be approved by ORP Change Board by December 15, 2000. There is minimal schedule variance forecast to the new baseline. All scheduled SOW deliverables to the new baseline have been completed.

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
1.	The work scope for Operations needs further definition in the FY 2001 SOW from ORP for either the interim design period, or after contract transition to the new A/E.	Path forward for Operations scope is not definitive.	CHG will prepare a proposal to develop Operations, Maintenance, Commissioning, and Training philosophy, and requirements documents to ORP.	Open. CHG submitted a proposal as an integral part of TFC contract extension negotiations.
2.	GTS-Duratek Pilot Melter.	Impacts capability to perform melter R&T.	ORP will resolve ownership of melter and authorize resumption of SOW.	Open Awaiting ORP resolution.
3.	Resolution of BNFL Inc., intellectual property issues.	Design progress and transition to new A/E/C could be jeopardized.	ORP has directed the evaluation of IP documents.	Closed. CHG issued final position to ORP on 12/15/00
4.	Extensive DOH/DOE comments on Site Sewage System from April 24, 2000, Deliverables Review.	Initial review of comments indicates a major redesign effort and a larger drain field is required.	The BOF C/S/A group is coordinating with ES&H to resolve comments. Design work may require subcontract support due to limited resources.	Open. Proposed solution developed and under internal evaluation.
5.	IBC (resin technology) and CHG cannot agree on contract terms.	Potential six-month delay to contract start, and a delay in R&T activities.	CHG formally requested disposition or approval to pursue alternate vendors.	Closed. ORP deferred contracting to IBC to new A/E.
6.	Flowsheet work restricted by inaccessibility to other Site staff (Numatec) for OCI reasons.	Unable to develop system-wide flowsheet model that integrates Site with WTP.	Continue work when procurement issues are no longer sensitive.	Open. Expect resumption at end of protest period, 12/31/2000.

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
7.	Poor linkage discovered between flowsheet and other design documents (PFDs, Datasheets, process calculations).	Uncertain pedigree of "Basis of Design."	Problem being addressed as part of requirements corrective action.	In Progress. Recommending development of a design basis flowsheet.
8.	Vessel vent carry-over may cause excessive particulate carry-over to the HEPAs.	Excessive HEPA change-out required to maintain the ALARA requirement for the contact maintenance HEPA area.	Study underway to evaluate change from contact maintenance to remote change for HEPA filters.	In Progress
9.	CAD software inconsistencies remain from reconstructing the configuration control and software interface tools not handed over from the previous contractor.	Problems with Microstations "ProjectWise" prohibited designers from performing their jobs on time.	Both IT and Automation Group personnel have been working on the issues. Continue full-time Bentley support and schedule designer meetings.	Closed. Documentation complete per 11/30/00 SOW deliverable.
10.	Incomplete LAW design work in Container and Pour Cave Cooling Design.	Verification of design for related systems/areas will be incomplete.	Analyze/Model and finalize LAW container design. Resolution of design equipment with DOE.	In Progress
11.	Lack of 3-D training across the project.	Lack of adequate training requested in the use of 3-D model promotes 2-D design applications that circumvent the project concept of a "single 3-D model." Disciplines all need to reference the 3-D model in TriForma and PlantSpace under the specific building vault in "ProjectWise."	Establish Training Schedule. Functional Engineering issue direction to all Disciplines to use 3-D model.	In Progress

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
12.	The WTP project relies heavily on subcontract personnel for staff augmentation. The administration of monthly contract accruals, reversals, and invoice payments for approximately 195 contract releases has caused a backlog in system and administration processes.	The inability to process contract related documentation will result in inaccurate reporting of monthly costs.	A senior management team has been established to identify options to expedite accruals/payments processed through the HANDI cost reporting system.	Closed. Line Item releases in system by 12/16/00. Detailed accrual matrix developed to assure accrual accuracy.
13.	Recent communications with DOE indicate WTP sampling laboratory must have capability to analyze Hanford tank farm core samples.	Significant scope addition not included in the present Basis of Design.	Clarify requirements with DOE.	Open
14.	New M-62-06 Start of Construction TPA milestone in negotiation one year earlier than baseline to start vitrification construction.	Reconciliation required with Ecology to assure baseline is in compliance.	Finalize negotiations with Ecology and new A/E contractor may result in elimination.	Progressing
15.	Listing of long-lead and early procurement not currently known pending finalization of integrated schedule.	Long-lead and early procurement may be critical path once integrated schedule finalized.	Complete Integrated P3 Schedule and prepare listing of procurements critical to project schedule by 1/15/01.	Progressing

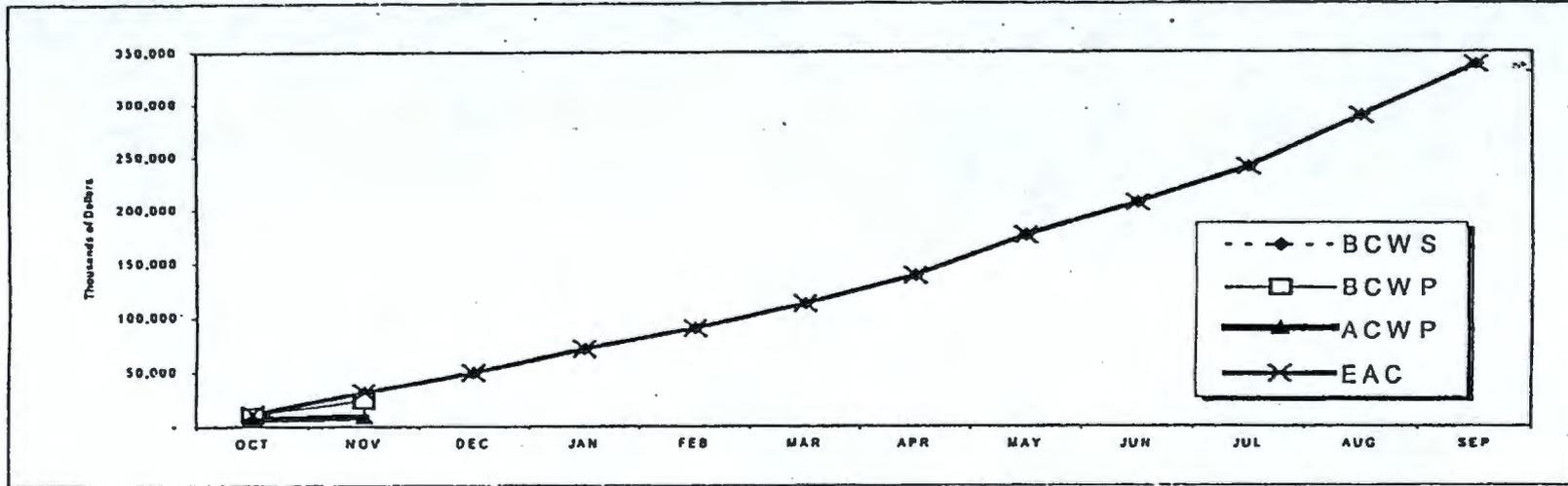
RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

POTENTIAL PROBLEMS, IMPACTS, AND COURSE OF ACTION

	Potential Problems	Impact	Course of Action	Status
16.	Proposed permitting approach for vitrification units per 65 Federal Register 44237, would require recently promulgated Maximum Achievable Control Technology standards for hazardous waste incinerator units to be starting point for negotiations with Ecology.	Integrated melter testing originally scheduled for spring on hold which would provide indication if melter and off-gas system can achieve MACT Standards.	Develop recommended path forward and change request.	Progressing

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

COST/SCHEDULE PERFORMANCE - CHG



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FY01: CURRENT APPROVED PERFORMANCE MEASUREMENT BASELINE												
CURRENT PERIOD												
BCWS	11,625	19,581	18,136	21,241	18,903	22,459	26,225	37,111	30,981	33,812	48,097	49,401
BCWP	10,243	13,703										
ACWP	7,027	1,296										
ETC	11,625	19,581	18,136	21,241	18,903	22,459	26,225	37,111	30,981	33,812	48,097	49,401
YEAR TO DATE												
BCWS	11,625	31,206	49,342	70,583	89,486	111,945	138,170	175,281	206,262	240,074	288,171	337,572
BCWP	10,243	23,946										
ACWP	7,027	8,323										
EAC	11,625	31,206	49,342	70,583	89,486	111,945	138,170	175,281	206,262	240,074	288,171	337,572

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

SCHEDULE PERFORMANCE - CHG

Schedule Variance		
WBS Level 6	WBS Level 6 Title	
1.1.6.5.1.2	O&M Project Management	Activities in support of construction procurement were not initiated due to final funds ceiling and staff restrictions. Scope will be deferred to March and a revised schedule was submitted and is expected to be approved by ORP on December 15, 2000.
1.1.6.5.2.2	O&M Interim Design LAW Facility	HVAC and mechanical handling for systems 311, 312, 314, 321, 322, 340 activities were deferred due to staff/funding restrictions. A revised schedule was submitted and is expected to be approved by ORP on December 15, 2000.
1.1.6.5.2.3	O&M Interim Design PT Facility	Task to support the A7 Design confirmation and CS&A design were deferred due to staff/funding restrictions. A revised baseline is expected to be approved December 15, 2000.
1.1.6.5.2.4	O&M Interim Design Balance of Facilities	Restrictions on increasing manpower and delays in obtaining required software prevented tasks for O&M IJV Common and Facilities to progress as planned. Software has been obtained. A revised schedule is expected to be approved on December 15, 2000, by ORP.
1.1.6.5.2.5	O&M Interim Design LAW Pretreatment Facility	Tasks to support A7 design confirmation were deferred due to staff/funding restrictions. A revised baseline is expected to be approved December 15, 2000.
1.1.6.5.2.6	O&M Interim Design Operations Support & Optimization Study	Activities originally planned for Tc removal, HLW Process Control, resin, feed ignition/corrosives, iodine removal, ultra filters capabilities/capacities, solids settling, waste classification, deferred due to staff/funding restrictions. Revised baseline is expected to be approved December 15, 2000.
1.1.6.5.2.7	Research & Technology	Activities originally planned for off-gas modeling, pilot meltor sampling, feed mixing, glass formulation, pulse jet sampling, filtration, precipitation return, evaporator superlig 644 deferred due to staff/funding restrictions. Revised baseline is expected to be approved December 15, 2000.
1.1.6.6.1.3	D&C Construction Management	Tasks for piping, temporary facilities, steel, electrical, and pre-engineering building were not initiated due to restrictions on increasing manpower. A revised baseline is expected to be approved by ORP December 15, 2000.
1.1.6.6.1.6	D&C ES&H	Behind schedule on Hazard Analysis, Construction Authorization Support, Human Factors Review, Fire Protection strategy, PSAR/CAR, Safety Documents, and Permits License due to headcount/funding constraints, transition staff turnover and delayed start of ITS work. A revised baseline is expected to be approved December 15, 2000.

STATUS OF DECISIONS

Nothing to report.

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

90-DAY LOOK AHEAD

Management

- Disposition all open actions and formal comments submitted by DOE on the BNFL Inc., deliverables as delineated in CHG letter 015975C. SOW 2.3 (02/28/01)
- CHG shall plan on providing extensive briefings to the WTP Contractor on the work scope being transitioned. SOW 3.1 (1/01)
- Complete Transition Activities per Transition Plan agreed December 15, 2000. SOW 3.1 (2/28/01)

ES&H

- CHG shall develop appropriate data quality objectives and collect characterization data and demonstration-scale treated waste product data to support the compliance demonstration and development of the petition. SOW 7.4
- Support the development of a petition to exempt or exclude the IHLW from regulation (also known as delisting) under HWMA and RCRA respectively. Revise, reissue, and begin implementation of the Approach for IHLW Delisting developed by BNFL Inc. SOW 7.4 (12/15/00)
- Revise, reissue and begin implementation of the Approach to Immobilized Hanford Tank Waste Land Disposal Restrictions Compliance developed by BNFL Inc, under Contract No. DE-AC27-96RL13308 (TWRS Privatization) in coordination with DOE. SOW 7.5 (12/15/00)
- Providing regulatory and technical support for development of, and regular review and approval of, permit applications and associated materials. SOW 7.2(4) (12/15/00)
- Issue draft Notice of Construction for WTP excavation. SOW 7.3b (12/15/00)
- Develop a draft response table (and informally provide to DOE). The due date for the final response table will be determined after discussions between CHG, DOE and the Washington State Department of Ecology. Develop draft responses to regulator comments on the Vitrification Plant Combustion Risk Assessment Work Plan. Responsible for providing regulatory and technical support for development of, and regulator review and approval of, permit applications and associated materials. Includes, but is not limited to, developing response documents for Notice of Deficiency. SOW 7.2(6) (12/22/00)
- Environmental Compliance Requirements shall be identified in the basis of design. SOW 6.5.6(d) (12/31/00)
- Perform routine Environmental, Safety and Health activities. SOW 2.9.3 (1/15/01)
- Develop draft responses to regulator comments on the Vitrification Plant Combustion Risk Assessment Work Plan. SOW 7.2(5) (1/15/01)
- Issue emissions estimate report. SOW 7.3b (1/31/01)

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

90-DAY LOOK AHEAD

Operations

- Develop, maintain, and transition training database. SOW 2.17 (1/15/01)
- CHG shall prepare a preliminary operations requirements document for DOE review and concurrence based on RPP-WTP April 24, 2000, deliverable and supporting documentation. SOW 6.5.11 (1/15/01)
- Identify the functional requirements of the facility from an operator's perspective in the Functional Specification. SOW 6.5.6(a) (1/15/01)
- The control system strategy shall state the operational characteristics of the facilities, requirements for the control and operational system, and sampling and analytical requirements for the operation of the facilities. SOW 6.6.9.1 (01/15/01)
- CHG shall maintain training records for all acquired employees and make this data available to the WTP Contractor upon hire of employee or subcontract by the WTP contractor. Staff augmentation qualification records shall be turned over to the extent released by the subcontractor. Staff augmentation training records shall be turned over to the WTP Contractor. SOW 3.3 (2/28/01)

Engineering

- CHG shall revise the interface management plan for Transition. SOW 10.1.2 (12/15/00)
- Tier one studies. Submit Iodine Removal Study to DOE. SOW 6.7.3a.b (01/15/01)
- Tier three studies. Submit U-F Capability/Capacity Study to DOE. SOW 6.7.3c.a (1/15/01)
- Tier three studies. Submit Solids Settling Data Study to DOE. 6.7.3c.b (1/15/01)
- Tier two studies. Submit IX Resins Study for LPP Study Incorporation. SOW 6.7.3b.a.1 (1/15/01)
- The Basis of Design shall identify the appropriate significant facility function requirements, design requirements, and design considerations. SOW 6.5.6 (b) (12/31/00)
- Incorporate environmental requirements into the Design Criteria Database (DCD). SOW 6.5.7 (12/31/00)
- Tier one studies. Submit Ammonia Study to DOE. SOW 6.7.3a.f (01/15/01)
- Tier two studies. Incorporate Technetium Study into LPP Elimination Study. SOW 6.7.3b.a.2 (1/15/01)
- Tier one studies. Submit Evaporator Assessment to DOE. SOW 6.7.3a.d (1/15/01)
- Revise the Products and Secondary Wastes Plan incorporating DOE's comments (letter 00-PRD-040, dated May 25, 2000), and submit a revised Products and Secondary Wastes Plan to DOE for concurrence. SOW 8.1-1 (1/15/01)

90-DAY LOOK AHEAD

Engineering (cont.)

- Revise the Waste Form Compliance Plan (WCP) incorporating DOE's comments (letter 00-PRD-034 dated May 19, 2000) and obtain DOE concurrence. SOW 8.1-2 (1/15/01)
- At a minimum, the following design documents will be managed with a drawing management system in accordance with the Configuration Control system: Functional Specification, Basis of Design, Design Criteria Database, OR Model Assessments, G2 Model Assessments on Plant Tankage, and others named. SOW 6.3 (1/15/01)
- Provide the instantaneous flow or batch systems material balances for the treatment and immobilization of Envelopes A/D, B/D, and C/D. SOW 6.5.8 (1/15/01)
- CHG shall verify and document to DOE that the OR Model accurately reflects the baseline process and facility. SOW 6.6.9.2 (1/15/01)
- The G2 Model is to be developed and documented to model the utilization of tank capacity cycle times in the Treatment and Immobilization Facilities. SOW 6.6.9.3 (1/15/01)
- The ASPEN Model is to be developed and documented to model the mass and activity balance in the Treatment and Immobilization Facilities. SOW 6.6.9.4 (1/15/01)
- CHG shall update the ICDs in preparation for transition to the new WTP Contractor. SOW 10.2.2 (1/16/01)
- Tier one studies. Submit HLW Process control Study to DOE. SOW 6.7.3a.c (preliminary available 1/15/01)
- Tier one studies. Submit Ignitability and Reactivity Study to DOE. SOW 6.7.3a.a (preliminary available 1/15/01)
- Tier two studies. Submit Thin-Walled HLW Canister Study to DOE. SOW 6.7.3b.c (preliminary available 1/15/01)
- Tier one studies. Submit Recycle Assessment to DOE. SOW 6.7.3a.c (preliminary available 1/15/01)
- Tier two studies. Submit Waste Feed and Buffer Storage Study to DOE. SOW 6.7.3b.b (preliminary available 1/15/01)
- CHG shall provide test specifications, test plans and interim reports to DOE at appropriate intermediate steps and final reports in accordance with requirements of this document. Determine if the sample materials meet Specification 7 (LAW) limits, and Specification 8 (HLW) limits on samples. The analysis requirements for the as received and treated tank waste samples shall be defined in CHG's test plan. SOW 5.2.2 (2/28/01)
- Validate the proposed process for treating HLW slurry including the proposed solid-liquid separation process to separate the HLW sludge from the supernate and support washing of the sludge. Conduct tests to demonstrate operational parameters as proposed. SOW 5.2.3.2 (2/28/01)
- Tier two studies. Submit LPP Elimination Study to DOE. SOW 6.7.3b.a (preliminary available 1/15/01)
- Update the Waste Form Qualification Report (WQR) incorporating DOE's comments (letter 00-RPD-051, dated June 27, 2000) for DOE review and comment. SOW 8.1-4 (2/28/01)

90-DAY LOOK AHEAD

Engineering (cont.)

- Issue test report for process verification and product qualification within 90 days of test completion (ongoing) and identify activities that will not be completed. SOW 5.2.1(c) (2/28/01)
- Use waste samples obtained under ICD-23, to further demonstrate the capability of the LAW pretreatment processes selected by BNFL, Inc., in Part B-1 of the Privatization Contract period for removal of entrained solids, Cs-137, Tc-99, Sr-90, and TRU elements. SOW 5.2.3.1 (2/28/01)
- Operate a laboratory-scale melter system and produce samples of ILAW glasses from a waste sample. Analyze the ILAW glasses prepared from actual pretreatment wastes. Demonstrate waste loading. SOW 5.2.3.3 (a-h) (2/28/01)
- CHG shall prepare laboratory-scale samples of immobilized HLW glasses from waste samples obtained under ICD-23 and operate a lab-scale melter system to produce glasses in various ways for various purposes. SOW 5.2.3.4 (a-h) (2/28/01)
- Investigate glass formulations optimized to incorporate sulfate Crucible melts, and small-scale melters. Prepare and test ILAW glass formulations to further define an operating envelope for the ILAW waste treatment facility. SOW 5.2.4.1 (2/28/01)
- IHLW glass formulations shall be prepared and tested to further define an operating envelope for the IHLW waste treatment facility. Crucible melts and small-scale melters shall be used. Include, at a minimum, waste loading, product durability analysis. SOW 5.2.4.2 (2/28/01)
- Prepare glass samples on a laboratory scale (i.e., gram-quantity crucible melt) and in pilot-scale (10-3300 kg/day) ILAW glass melters. The ILAW glasses prepared shall be analyzed to demonstrate the facility's ability to comply with specification 2.2.2.6, 2.2.2.2, 2.2.2.17, and 2.2.2.21. SOW 5.2.4.3 (a-h) (2/28/01)
- Prepare glass samples on a laboratory scale (i.e., gram quantity crucible melt) and in pilot-scale (e.g., 10 to 1,000 kg/day). IHLW glasses shall be analyzed to demonstrate the facility's ability to comply with the chemical reporting requirements in WAPS specs. 1.1, 1.1.1, and 1.3; IHLW spec. 1.2.2.1.5 and 1.2.2.1.6. SOW 5.2.4.4 (a-h) (2/28/01)
- Conduct (a) Solid-Liquid Separation Testing (b) Ion-exchange System Testing, and (c) LAW and HLW Vitrification Feed Preparation. Conduct testing of the planned prototypical solid-liquid separation process. Develop qualified representative simulants for the tests based upon waste characterization information and requirements important to equipment. Establish operating conditions based upon testing ion-exchange, plant conditions, and life expectancies of materials. SOW 5.2.4.5 (a-c) (2/28/01)
- Identify, test and evaluate methods to determine, on-line, the ⁹⁹Tc concentration in the pretreated LAW feed. SOW 5.2.4.6 (2/28/01)

90-DAY LOOK AHEAD

Construction

- CHG will develop a P3 Integrated Project Schedule for construction. SOW 2.7 (1/15/01)
- CHG will provide a listing of critical long-lead procurement items. SOW 2.7 (1/15/01)
- CHG will prepare a procurement package for Mobile Emergency Sirens ready for Award. SOW 2.7 (1/15/01)

Design

- CHG and DOE will jointly establish a detailed set of design milestones. Advance all process and facility design documentation described in this document toward a level consistent with the Design Confirmation stage as defined in the BNFL Inc., TWRS. SOW 6.6.5 (12/13/00)
- Facility Design products shall be advanced according to section 6.6.5 and statused to DOE. SOW 6.6.10 (1/15/01)
- Establish a linkage between process verification tests and associated design calculations. SOW 5.2.1(f) (1/15/01)
- The ventilation flow diagrams and HVAC system design for the Pretreatment, HLW Vitrification, LAW Vitrification, and support facilities shall be advanced according to section 6.6.5. The diagrams shall identify principal systems, and equipment components, and principal routing within and between the facilities. The major equipment to provide motive force and ventilation control shall be identified. SOW 6.6.10.1 (01/15/01)
- The civil, structural, and architectural designs of the Pretreatment, HLW Vitrification, and LAW Vitrification facilities shall be advanced according to section 6.6.5. SOW 6.6.10.2 (1/15/01)
- Mechanical handling diagrams for the Pretreatment, HLW Vitrification, LAW Vitrification, and support facilities shall be advanced according to section 6.6.5. The diagrams shall be prepared with sufficient detail to support the Hazards Analysis Review. The diagrams shall identify mechanical equipment and each step and sequence of the operation. SOW 6.6.10.3 (1/15/01)
- Within the framework of section 6.6.5, the Balance of Facility design shall be updated and made available to DOE. SOW 6.6.11 (1/15/01)
- Piping and Instrumentation Drawings should be completed to a level adequate to support the limited construction application, the DWPA, and meet the Stage A requirements of the A7 Design. SOW 6.6.11.1 (1/15/01)
- Complete CS and A design for BOF to a level adequate to support limited construction application and the DWPA. Include the general arrangements of the facilities, cross sections of the more complex buildings and a facility description, which includes the function, purpose and applicable codes and standards. SOW 6.6.11.2 (1/15/01)
- Produce to adequately support the limited construction application and the DWPA. SOW 6.6.11.3 (1/15/01)
- During the interim design period, CHG is to continue to develop the process design in accordance with guidance in SOW 6.6.9.1 (Control System) and 6.6.9.2 (Operations Research Assessment). SOW 6.6.9 (1/15/01)

90-DAY LOOK AHEAD

Administration

- CHG shall prepare monthly status reports, and transmit same to DOE by the 30th of the following month. SOW 4.3 (12/30/00)
- Ready to transfer BNFL Inc., acquired Equipment to new WTP Contractor. SOW 2.13 (1/15/01)
- Ready to transfer all IT to new WTP Contractor. SOW 2.14 (1/15/01)
- Ready to transfer PDC Technical Data to new WTP Contractor. SOW 2.14 (1/15/01)
- Ready to transfer Technical Data to new WTP Contractor. SOW 2.14 (1/15/01)
- CHG shall conduct the following activities to support staff transition to the final WTP Contractor:
 - Identify all staff acquired from Privatization Contract DE-AC06-96-RL13308, associated with the WTP Conceptual Design that are currently employed by CHG that will be available for reassignment.
 - Provide a summary level description of the capabilities of the acquired staff. This description should include skill type, experience level, and years of experience. An identification of the location of the personnel, without names, on the CHG organizational chart for the interim design and transition shall also be provided. SOW 3.2 (1/15/01)
- CHG shall identify all subcontractors acquired from Privatization. SOW 3.2 (01/15/01)
- Ready to transfer BNFL Inc., acquired Subcontractors to new WTP Contractor. SOW 2.13 (1/15/01)
- The WTP Contractor shall begin to occupy the 3000 George Washington Way facility previously used by BNFL Inc. SOW 3.4 (1/16/01)
- CHG shall prepare monthly status reports and transmit same to DOE by the 30th of the following month. SOW 4.3 (1/30/01)
- CHG shall prepare monthly status reports and transmit same to DOE by the 30th of the following month. SOW 4.3 (2/28/01)

Project Controls

- CHG is directed to remove the electronic cost estimate from all computer systems, and all hard copies are to be returned to ORP. SOW 4.4.2 (12/15/00)
- Review the 1 billion dollar per year (BCR RPP-00-127) schedule and identify those activities that are unduly constrained. Revise the schedule to minimize the number of constrained activities. Maintain a document that shows the changes that are made to schedule. SOW 4.5.3.1 (1/15/01)
- Ready to transfer Cost Data to new WTP Contractor. SOW 2.14 (1/15/01)
- Prepare documentation that supports the FY 2002 and FY 2003 budget request in the RPP baseline budget. SOW 4.7 (2/28/01)

90-DAY LOOK AHEAD

Quality Assurance

- Continue closure of legacy open corrective action items. Eighteen items are forecast for closure in December. Frequency of Management Corrective Action meetings changed to biweekly with weekly exception sessions on delinquencies. All legacy items will be closed or forwarded by the end of the contract period. SOW 2.3
- Completion of performance-based audits of specific areas. Areas being audited are the Design Input Memorandum process, Design Criteria Database, and LAW System Descriptions. Field work and interviews are scheduled to commence in early December. SOW 9.2 (12/29/00)
- Complete procedure K70P567, "Graded Approach," and issue for WTP training. (12/29/00)
- Closeout new CAM items (target 60 days after opening).

Human Resources

- Ready to transfer BNFL Inc., acquired personnel to new WTP contractor. SOW 2.13 (1/15/01)
- WTP Project Employee Concerns Program and database shall be made available to the WTP Contractor during 45-day transition period. SOW 3.5 (1/16/01)

RIVER PROTECTION PROJECT-WASTE TREATMENT PLANT

CHANGE CONTROL LOG

Change Number	Change Title	Status
BCP-W375-00-00001	FY 2001 WTP Baseline Update	Cancelled/Supceded by BCP-W375-00-00005
BCP-W375-00-00002	Emergency Sirens	Approved 12/15/00 by ORP Board
BCP-W375-00-00003	Integration of TPA Milestones for TW-06	Approved 12/04/00 by ORP Board
BCP-W375-00-00004	TW-06 Building Permit Costs to Contingency	Approved 12/04/00 by ORP Board
BCP-W375-00-00005	FY 2001 WTP Baseline Revised	Approved 12/15/00 by ORP Board

JAN 31 2001

Addressees
01-AMPD-005

-3-

cc w/attach:

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C. E. Clark, RL

D. E. Jackson, RL

H. M. Rodriguez, RL w/Attachments

Administrative Record