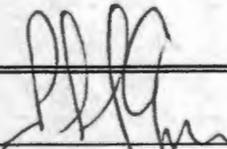
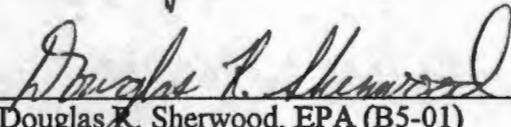


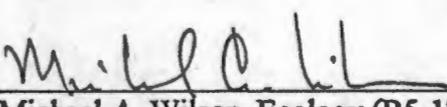
Meeting Minutes Transmittal/Approval  
Tri-Party Agreement Milestone Review Meeting  
EPA Conference Room  
February 23, 1999

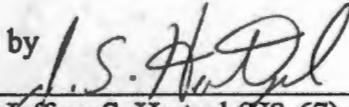
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Appvl.:  Date: 4/6/99  
P. M. Knollmeyer (A5-11) <sup>4/5</sup>  
IAMIT Representative <sub>4/7/99</sub>

Appvl.:  Date: 4/7/99  
Douglas R. Sherwood, EPA (B5-01)  
IAMIT Representative

Appvl.:  Date: 4/29/99  
Michael A. Wilson, Ecology (B5-18)  
IAMIT Representative

Prepared by  Date: 3-23-99  
Appvl.: Jeffrey S. Hertz (H8-67)  
Fluor Daniel Hanford, Inc.

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**Distribution**

Alexander, S.	Ecology	B5-18	Morrison, R. D.	FDH	H8-67*
Baker, T.	WMH	H6-06	Murphy-Fitch, E. J.	FDH	H8-67*
Black, G.	BHI	HO-11*	Olguin, L. J.	FDH	L5-65
Blazek, M. L.	ODOE	OR*	Piippo, R. E.	FDH	H8-67*
Cruz, R. O.	NezPerce*		Rasmussen, J. E.	RL	A5-15*
Cusack, L.	Ecology	B5-18*	Richards, J.	CTUIR*	
Dahl, S.	Ecology	B5-18*	Rodriguez, H. M.	RL	A5-15
DeLeon, M.	FDH	L5-65	Rogers, L.	RL	R3-79
Evans, D.	RL	R5-79	Romine, L. D.	RL	R5-79
Farabee, O. A.	RL	R3-79	Sanders, G. H.	RL	A5-15*
Hajner, R. S.	BHI	HO-11	Seaborg, W. D.	RL	R3-79
Hertzfel, J.	FDH	H8-67*	Sherwood, D. R.	EPA	B5-01*
Hopkins, A.	FDH	L5-65*	Skinaarland, E. R.	Ecology	
Hughes, M. C.	BHI	HO-14	Stone, A.	Ecology	
Huston, D.	ODOE	OR*	Taylor, W. J.	RL	A0-21*
Jarvis, M. F.	RL	A5-15	Templeton, D.	RL	L1-08
Jim, R.	YIN*		Valero, T.	Ecology	H5-18*
Knollmeyer, P.	RL	A5-11*	Walsh, J.	BHI	H0-11
Kronvall, C. M.	FDH	L1-08*	Wilson, M. A.	Ecology	B5-18*
McLaughlin, M. A.	FDH	H8-67*	Yerxa, J. K.	RL	A5-15
McLeod, R. G.	RL	H0-12	EDMC		H6-08
Miera, F.	RL	A5-15			
Mohan, S.	Ecology	B5-18			

\* W/Attachments

MSREV02.23

Tri-Party Agreement Milestone Review  
EPA Conference Room, 712 Swift Boulevard, Richland, Washington  
February 23, 1999

Environmental Restoration Project Quarterly Review

The status of the Environmental Restoration (ER) Project milestones was presented. There are two FY 1999 Enforceable Agreement milestones that will need to be renegotiated:

- M-16-03D, Complete Remediation of the Waste Sites in the 300-FF-1 Operable Unit as Defined in the Remedial Design Report/Remedial Action Work Plan for the 300 -FF-1 Operable Unit. Remediation is delayed due to finding uranium shavings in rusted barrels in the 618-4 Burial Grounds.. A Tri-Party Agreement Change Request is in process proposing two new milestones.
- M-16-08B, Complete Remediation and Backfill of 19 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Decision Report/Remedial Action Work Plan for the 100 Area . Backfill in the 100-BC-1/100-BC-2 Operable Units is delayed due to the discovery of Chrome 6. The cleanup level for chromium is being investigated.

Discussion with the regulators continues on FY 2000 and 2001 proposed budget/Tri-Party Agreement milestones.

Ecology requested that a discussion on the ground water wells be included as an agenda item for the March 23, 1999, IAMIT meeting.

B Plant Deactivation Project, M-82

Punchlist of items being worked prior to the turnover of B Plant to BHI.

Ecology is to meet with BHI and BWHC to address the issues raised by EPA on the B Plant Part A format and the S&M plan for the S&M contractor.

300 Area Stabilization Project, M-89

Major risk reduction activities are focusing on removal of processing the racks. The 1A Rack Size Reduction began in November 1998 and preparations were initiated for the removal of the 2A Rack. Tri-Party Agreement Milestone M-89-02 is approximately two months behind the recently revised Project Management Plan schedule. Schedule impacts include the repeated failures of the 324 Building Radiochemical Engineering Cell (REC) Cranes (Out of Service 75 out of the first 125 days of FY 1999) and a fire in the B-Cell on January 24, 1999, delayed progress by two weeks. A significant roadblock to size reducing was eliminated by dose profiling the 1A Rack, demonstrating an inventory of ~200 Ci versus the previously estimated 1.5 MCi. The dose data enabled the project to proceed directly to size reducing the 1A Rack, avoiding an additional one month delay for the preparation and issue of a 324 Building FSAR Addendum.

Discussion was held on the transuranic (TRU)/low-level waste (LLW) designation of Grout Containers in B-Cell. Six legacy grout containers, which were suppose to be LLW, are TRU and

cannot be shipped to the 200 Area Burial Grounds until waste designation is confirmed and the newly generated grout containers cannot be shipped at this time due to questions regarding the TRU/LLW designation. This could impact B-Cell cleanout due to inadequate storage causing a stop to work. Use of either A-Cell or C-Cell as an interim storage location will be carefully evaluated prior to actual movement of materials into these locations. A team is evaluating the dose methodology and calculations for TRU/LLW content determination. Corrective actions include a contractor team is evaluating the dose methodology and calculations; evaluating alternate storage locations outside of B-Cell; exploring alternate shipping/storage options are being explored that would allow for shipment/storage of TRU/LLW materials; and, evaluating direct TRU measurement technologies available from Pacific Northwest National Laboratories.

Ecology expressed their concern and displeasure that the current FY 2001 budget exercise takes money from FY 2000 and does not believe that the milestones can be maintained or met. Ecology would like to know what the bottom line is for the budget.

300 Area Stabilization Project (M-92)

Status of the 300 Area Stabilization Project was presented.

Plutonium Finishing Plant (PFP) Stabilization Project (M-83)

Status of PFP was presented.

Fast Flux Test Facility

Change package is being held in abeyance pending the Secretary of Energy's final decision on the future mission for FFTF. The decision will be made in April.

**NOTE: NEXT TRI-PARTY AGREEMENT MILESTONE REVIEW MEETING IS SCHEDULED FOR TUESDAY, MARCH 23, 1999**

**Milestones to be reviewed: M-34, -26-01I, -26-5F, -19-00, -91-00, -32-00, and -20-00**

**Chairperson: D. R. Sherwood**



# **B Plant Deactivation Project**

Milestone  
TPA-M-82

IAMIT Meeting February 23, 1999  
Tri-Party Agreement Milestone  
Status Report

Ecology Project Manager - S Mohan  
DOE-RL Program Manager - DT Evans  
FDH Environmental Sponsor - AM Hopkins

## Program Manager's Assessment

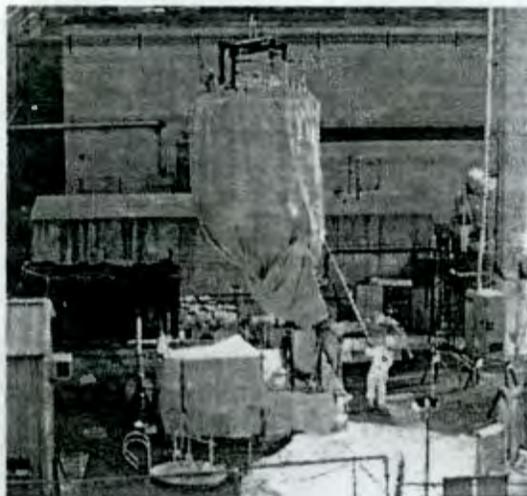
Since last quarterly review

### ***Environmental - Excellent***

The overall B Plant Project was completed on September 29, 1998, meeting or completing well in advance all of the associated TPA milestones.

### ***Cost - Excellent***

The B Plant/WESF Project delivered the deactivation of B Plant four years ahead of the original planning with approximately \$100 million in cost avoidance/savings. The B Plant Surveillance & Maintenance costs are being reduced from approximately \$20 million per year in 1995 to approximately \$0.8M in FY00.



### ***Safety - Excellent***

The safety track record on the B Plant/WESF Project has been excellent, particularly in consideration of the accelerated schedule and high number of man-hours, including overtime, involved with milestone completion.

### ***Schedule - Excellent***

In spite of several schedule problems, including the removal of Tank 100 from the WESF Low Level Liquid Waste system, the B Plant project recovered and met the September deactivation completion milestone.

## Major Accomplishments

in last three months

Revised Part A transmitted to Ecology

Pre-Closure Work Plan is Issued

Surveillance & Maintenance Plan is drafted

Other Punch List items are in progress



Kari McDaniel, HVAC Cog engineer, surveys completed Project W-059

## Planned Accomplishments

Next Six Months

### **M-82-00**

The final documentation will be presented to Ecology for final approval.

- Revised Part A permit
- Pre-Closure Work Plan
- Surveillance and Maintenance Plan

## Baseline Performance

### *FYTD Cost and Schedule Variance for FY '99 \**

BCWS	BCWP	ACWP	SV	CV
1,383	1,363	1,588	-19.9	-225

\* Data corrected for pending change requests for which advanced work authorization has been issued

### *FYTD Schedule Variance*

The deactivation project was completed on time and the schedule variance is insignificant.

### *FYTD Cost Variance*

The cost variance is due to the Liquid Low Level Waste project exceeding the budget. There will be no impact to completing the TPA milestone or turning B Plant over to BHI. The cost overrun will be made up through efficiencies within facility stabilization.

## *Issues*

**Issue:** Revised Part A issued to Ecology. Ecology concerned about the B Plant Part A format.

- **Impact** - Delay of transfer.
- **Status/Corrective Actions** - Meeting to be set up to resolve issue.

**Issue:** S&M plan for the S&M contractor must be approved by Ecology. Ecology has questioned which contractor will issue the S&M plan.

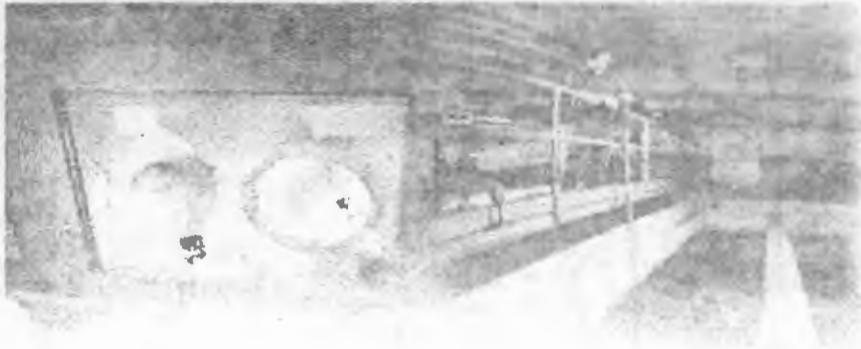
- **Impact** - Missed TPA milestone.
- **Status/Corrective Actions** - Meeting to be set up to resolve issue.

## *Project Summary*

### **Excellent**

The B Plant Project is a major success story demonstrating what can be achieved when DOE, Contractors and Regulators work together in a partnering relationship to achieve "Breakthrough" projects on accelerated schedules with multi-million dollar cost avoidance.





# **300 Area Stabilization Project**

**Milestone  
TPA-M-89**

**IAMIT Meeting February 23, 1999  
Tri-Party Agreement Milestone  
Status Report**

**Ecology Program Manager - AB Stone  
DOE-RL Program Manager - DW Templeton  
FDH Environmental Sponsor - AM Hopkins**

## Program Manager's Assessment

Since last quarterly review

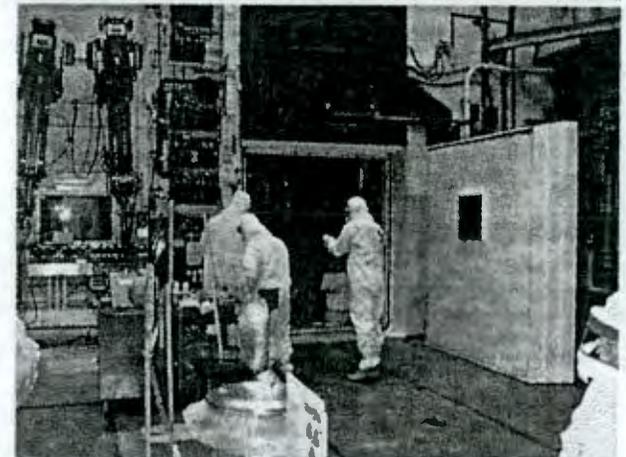
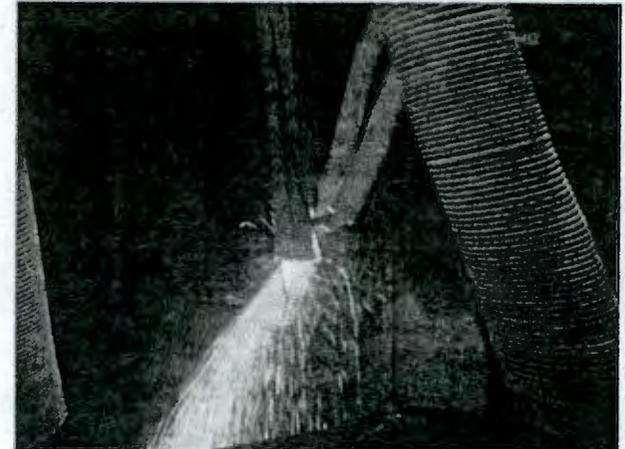
### Environmental - *Excellent*

Currently, major risk reduction activities at 324 Building B-Cell are focusing on removal of processing racks. 1A Rack Size Reduction began in November 1998. Preparations have been initiated for the removal of the 2A Rack.

Approximately 1/4 of the 1A Rack materials have been sampled. Samples were sent to the 222-S Laboratories February 16, 1999 for analyses. The 1B Rack samples have been analyzed for radioactive material composition to determine whether the materials will be classified as either Transuranic (TRU) and/or Low Level Waste (LLW). Characterization results will also support shipment of B-Cell waste materials to the 200 Area Burial Grounds.

### Safety - *Satisfactory*

A B-Cell fire occurred 1/24/99 when sparks from size reduction activities ignited combustibles in a Grout Container. No injuries or environmental releases occurred as a result of the fire. Recovery Actions were completed 2/7/99. Upgrades have been made to the B-Cell Fire Protection equipment. A new camera and a new fire protection hose have been installed and tested that are improvements over the systems that they replaced..



## Program Manager's Assessment

Since last quarterly review

### *Cost - Satisfactory*

Baseline Change Request (BCR) BCR-FSP-99-008 was approved on February 16, 1999. This BCR reflects current plans to Size Reduce the 1A Rack ahead of the 2A Rack.

The B-Cell Cost Variance is attributable to costs for the NAC-1 Cask purchased in FY 1998 showing up in FY 1999. The cost variance will disappear once the accrual is reversed.

## Program Manager's Assessment

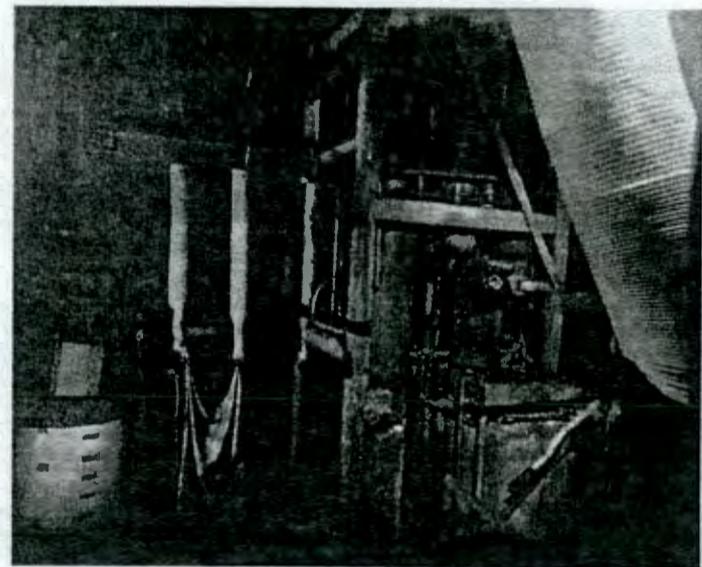
Since last quarterly review.

### Schedule - *Unsatisfactory*

M-89-02 is two months behind the recently approved catch-back schedule (Schedule that is included in BCR-FSP-99-008). The BCR reflects current plans to size reduce the 1A Rack ahead of the 2A Rack. Significant factors contributing to the schedule variance are:

- Repeated failures of the 324 Building Radiochemical Engineering Cell (REC) Cranes (Out of Service 75 out of the first 125 days of FY 1999)
- A fire in the B-Cell on 1/24/99 delayed progress by 2 weeks.

A significant roadblock to size reducing was eliminated by dose profiling the 1A Rack, demonstrating an inventory of ~200 Ci versus the previously estimated 1.5MCi. The dose data enabled the project to proceed directly to size reducing the 1A Rack, avoiding an additional one month delay for the preparation and issue of a 324 Building FSAR Addendum.



## Major Accomplishments

in last three months

### **M-89-00**

- A proposed due date for completion of closure activities has been established as 10/31/05, replacing the TBE date status for Major Milestone M-89-00.

### **M-89-02**

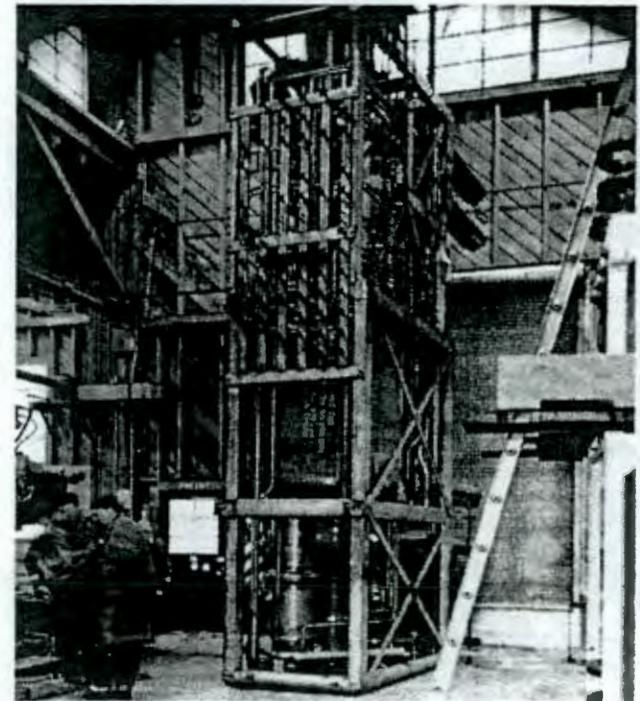
- Based on the radiological characterization of the B-Cell 1A Rack, an addendum to the 324 Building SAR will no longer be required. Dose profile data indicate the presence of 200Ci versus the previously estimated 1.5MCi. The dose data enabled the project to proceed directly to size reducing the 1A Rack, avoiding an additional one month delay for the preparation and issue of a 324 Building FSAR Addendum.
- The B-Cell 10-Ton Crane has been available for use since repairs were completed on January 5, 1999.
- The 324/327 Buildings Stabilization/Deactivation Project Project Management Plan was revised and issued in December 1998. The revision includes improved schedule logic, implementing recommendations from the B-Cell Optimization Study.
- The B-Cell optimization study was issued. The study evaluated all in-cell activities and project interfaces for schedule acceleration.
- 1A Rack Size Reduction activities were initiated.
- A Deployment Plan for the ASTD Proposal for "Deploying a Robot Work Platform for Large Hot Cell Deactivation" has been submitted. Funding from EM-50 (\$1.544 Million) is expected to be available by the end of March.
- All above ground connections for the 2A Rack have been removed; only below grade jumpers remain to be removed.
- An upgraded camera system has been installed in B-Cell that is expected to improve visibility within B-Cell.
- A technical paper has been approved for implementation that exempts materials in "lidded" Grout Containers from inclusion in the B-Cell combustibles inventory.
- RL and Ecology approved TPA change package M-89-98-03, that establishes November 30, 2000 as the M-89-02 completion date

## Planned Accomplishments

Next Three Months

### M-89-02

- Ninety percent (90%) of the 1A Rack size reduction will be completed, and the associated LLW will be shipped in grout containers to the 200 Area Burial Grounds. Note: Grout container shipment is pending resolution of the TRU/LLW grout container designation.
- 2A Rack jumper removal will be completed.
- Design and fabrication of equipment to enable transfer of Spent Nuclear Fuel equipment from the B-Cell to the A-Cell will be completed.
- Determine the level of readiness required to reopen the PUREX tunnels to receive special-case waste.
- Repair of the B-Cell 3 1/2-ton crane will be completed. 3 1/2-ton crane operations are currently restricted due to cable damage and a twisted wire rope.
- Engineering studies for the B-Cell decontamination and dispersible collection/vacuuming will continue.
- The Robotics ASTD Proposal Request for Interest (RFI) will be issued, the Project Management Plan (PMP) will be drafted and the Request for Proposals (RFP) will be initiated.



## Baseline Performance

### **FY 1998 Schedule Variance -**

**Summary Variance Analysis** -The B-Cell project continues to lag two months behind the revised Project Management Plan schedule (approved for use via BCR-FSP-99-008 on February 16, 1999). The schedule variance is primarily due to the repeated failures of the REC cranes in the months of October, November, and December 1998. A fire in B-Cell accounted for a two week delay in January. Clean-out activities have resumed in February. Formation of a dedicated Crane Improvement Team is expected to identify activities that will improve crane reliability. Assignment of swing shift maintenance resources dedicated to crane/manipulator repairs is being evaluated.

### **FY 1999 Cost Variance**

**Summary Variance Analysis** -. Following approval of BCR-FSP-99-008, costs for work completed to date are within required reporting limits. Costs are tracking closely with the work being performed.

## Issues

**Issue:** A question has been raised regarding TRU/LLW designation of Grout Containers in B-Cell

- **Impact** - Six legacy grout containers in B-Cell cannot be shipped to 200 Area Burial Grounds until their waste designation is confirmed and newly generated grout containers cannot be shipped at this time due to questions regarding the TRU/LLW designation. This could impact B-Cell clean-out due to inadequate storage causing a stop to work. Use of either A-Cell or C-Cell as an interim storage location will be carefully evaluated prior to actual movement of materials into these locations.
- **Corrective Action** -
  - An FDH, BWHC, and WMH Team is evaluating the dose methodology and calculations for TRU/LLW content determination that have been recently proposed.
  - Alternate storage locations outside of B-Cell (ex. 324 Building A-Cell and C-Cell) are being evaluated.
  - Alternate shipping/storage options are being explored that would allow for shipment/storage of TRU/LLW materials.
  - Direct TRU measurement technologies available from PNNL are being evaluated

## Issues

**Issue:** Progress towards completion of the M-89-02 milestone continues to lag 2 months behind the revised Project Management Plan schedule (approved for use via BCR-FSP-99-008 on February 16, 1999).

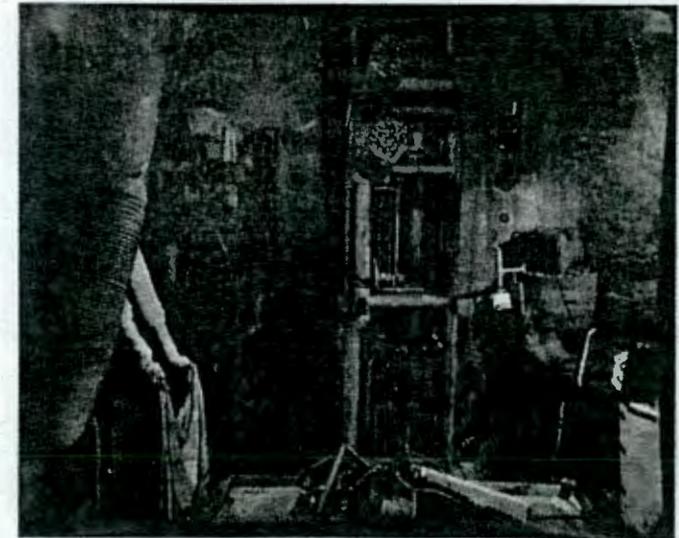
- **Impact** - If not recovered, could delay completion of Phase I Closure Activities.
- **Status/Corrective Actions** - Actions completed are:
  - Formation of a dedicated Crane Improvement Team. The Team is expected to identify activities that will improve crane reliability.
  - Assignment of Swing Shift maintenance resources dedicated to crane/manipulator repairs is being evaluated. The resources would be expected to be available to make timely repairs, thus reducing down-time due to crane and manipulator failures.
  - Upgrades have been made to the B-Cell Fire Protection equipment. A new camera and a new fire protection hose have been installed and tested that are improvements over the systems that they replaced..
  - Agreement has been reached with FDH regarding the classification of waste materials in a "lidded" Grout Container. Classifying materials in "lidded" Grout Containers as "non-combustible" will reduce the need for movement of Grout Containers in and out of the REC Cells during "cutting" operations. Time spent moving Grout Containers will now be available for clean-out.

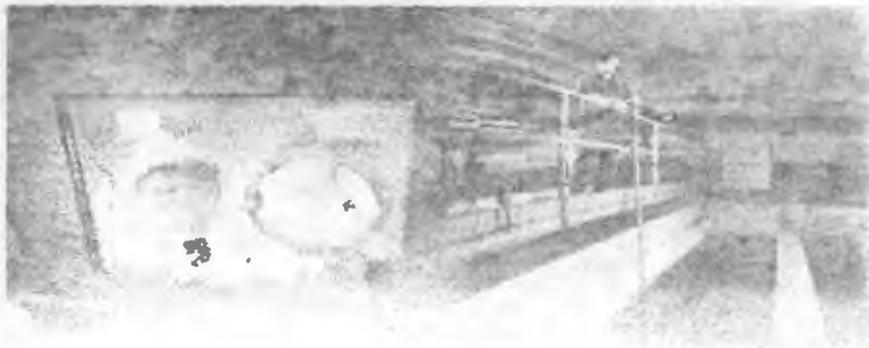
## Project Summary

10-ton crane unavailability and a fire in B-Cell caused major delays in the 1A Rack Size Reduction, and the 2A Rack removal and size reduction. The 10-ton crane has been operational since 1/5/99. Additional corrective actions being taken to further improve crane reliability include formation of a 324 Building Crane Team and evaluation of a Swing Shift Maintenance Crew.

Shipment of Grout Containers is on hold, pending completion of a joint FDH/WMH evaluation of the revised BWHC Dose methodology and calculations for TRU/LLW designation. As a result of questions raised by the new methodology, a revised Grout Container Waste Management Plan may be developed. Newly generated waste is not being "Grouted", pending the outcome of the review.

Studies are underway to evaluate alternate temporary storage locations for the Grout Containers now in B-Cell. Identification of an alternate, temporary storage location will ensure that B-Cell clean-out will not be affected by waste hold-up.





# **300 Area Stabilization Project**

**Milestone  
TPA-M-92**

**IAMIT Meeting February 23, 1999  
Tri-Party Agreement Milestone  
Status Report**

**Ecology Program Manager - AB Stone  
DOE-RL Program Manager - DW Templeton  
FDH Environmental Sponsor - AM Hopkins**

## Program Manager's Assessment

Since last quarterly review

### *Cost - Excellent*

Key Milestone M-92 activities are being completed within budget. FY 1999 funding for performance of the 327 Building Legacy Waste Bucket Verification and packaging is included in BCR-FSP-99-009.

### *Safety - Excellent*

No negative safety impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special-Case Waste inventory.

## Program Manager's Assessment

Since last quarterly review

### *Environmental - Excellent*

No negative environmental impacts or issues have arisen out of the storage and/or handling, packaging, or transportation of the Special- Case Waste inventory.

### *Schedule - Excellent*

- The near-term milestones are being completed on and ahead of schedule.
- M-92-13 through M-92-16 are well ahead of schedule and are projecting early completion.
- Sodium Disposition items (M-92-09, -10, and -11-T01) are on-hold pending a decision regarding future missions at the FFTF.
- Uranium disposition discussions are continuing to make progress. The current discussions would ship 90-100% of the Hanford Uranium inventory to Oak Ridge. (MX-92-06T)
- BNFL has completed its optimization study to include the capability to process the Cs/Sr capsule in its Phase 1 HLW vitrification facility; RL is currently evaluating that recommendation (scheduled completion 4/99). NOTE: If RL accepts the BNFL recommendation to include the Cs/Sr processing scope as part of Phase 1, we will be able to close out the Milestone M-92-05 as being complete.

## Major Accomplishments

in last three months

- M-92-04** Closure letter was submitted by RL to EPA and ECOLOGY on 12/21/98.
- M-92-05** Potential for M-92-05 to be completed early if TWRS/BNFL recommendations are accepted.
- M-92-12** Continued administrative activities to allow reopening of the No.2 PUREX tunnel and finalize the path forward for the 324 and 327 Facilities' Special Case Waste destined for the tunnel.
- M-92-13** Continued coordination efforts with other owners of SCW to ensure an integrated PMP is produced. MOA in RL concurrence cycle. PMP ahead of schedule.
- M-92-14** Ahead of schedule.
- M-92-15** Ahead of schedule.
- M-92-16** Ahead of schedule.

## Planned Accomplishments

### **M-92-00**

- Finalize Memorandum of Agreement.

### **M-92-05**

- Continue discussions with RL regarding the BNFL recommendation to include the capability to process the CS/Sr capsules in its Phase 1 HLW vitrification facility. DOE-RL is currently preparing a Supplemental Record of Decision to the TWRS Environmental Impact Statement that would add the disposition of the Cs/Sr capsules to the TWRS tank waste treatment and disposal mission (scheduled completion 4/99).

### **MX-92-06T**

- Continue discussions regarding transfer of 90-100% of the Hanford Uranium inventory to Oak Ridge.
- Uranium disposition team developing pathway options.

### **M-92-12**

- Continue administration and physical activities associated with reopening of the PUREX Tunnel #2.

### **M-92-13**

- Continue to coordinate with PNNL and WMH regarding the 300 Area Project Management Plan for Special-Case Waste. Finalize Special-Case Waste inventory.
- PNNL and BWHC PMP information drafted. Begin integration and internal reviews.

### **M-92-14, -15, -16**

- Continue to package legacy waste buckets within the 327 Building hot cells and ship the waste buckets to storage in the 200 Waste Area.

## Issues

### **M-92-09,10,11-T01**

#### **Issues**

On hold pending disposition of Hanford Federal Facility Agreement and consent order change control form, change number M-92-98-01. The change form requests that these milestones be held "in abeyance" pending a decision on the future mission of the FFTF.

#### **Impact**

Schedule commitments for M-92-09 and -10 have not been met. Schedule commitments for M-92-11-T01 may not be met.

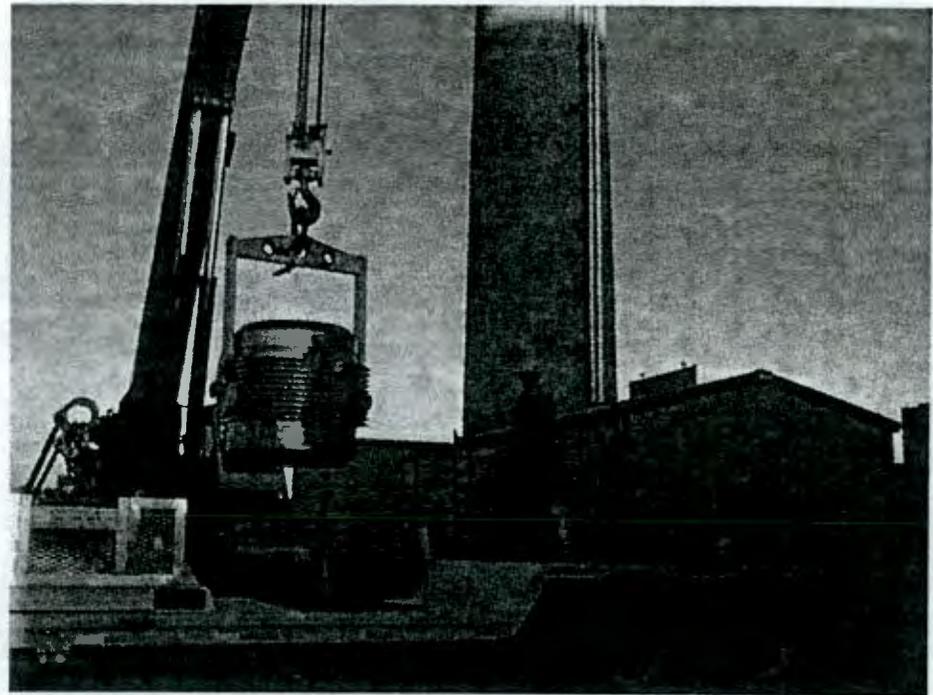
## Project Summary

- **M-92-04.** All cesium material in the 324 Building identified in the PMP has been packaged and shipped to the WESF Facility. Closure letter was submitted by RL to EPA and ECOLOGY on 12/21/98.

The near-term milestones are being completed on or ahead of schedule.

To date:

- M-92, all activities required to date have been completed ahead or on schedule. All future milestones are ahead or on schedule. Exceptions: M-92-09 and M-92-10 are on-hold, pending an FFTF Mission Decision.
- M-92-14, -16: 59 waste buckets have been loaded into 12 waste drums in FY 1999.
- M-92-13, On schedule
- M-92-15, Ahead of schedule



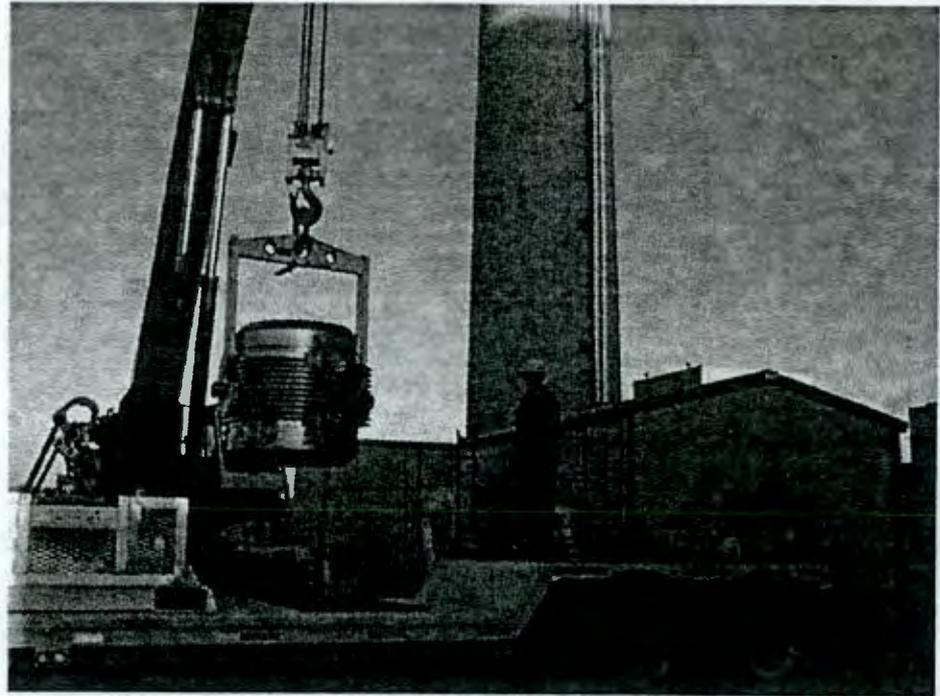
## Project Summary

•**M-92-04 Completed.** All cesium material in the 324 Building identified in the PMP has been packaged and shipped to the WESF Facility. Closure letter was submitted by RL to EPA and ECOLOGY on 12/21/98.

The near-term milestones are being **completed** on and ahead of schedule.

To date:

- M-92, all activities required to date have been completed ahead or on schedule. All future milestones are ahead or on schedule. Exceptions: M-92-09 and M-92-10 are on-hold, pending an FFTF Mission Decision.
- M-92-14, -16: 59 waste buckets have been loaded into 12 waste drums in FY 1999.
- M-92-13, On schedule
- M-92-15, Ahead of schedule





# Plutonium Finishing Plant Stabilization Project

Milestone  
TPA-M-83

IAMIT Meeting February 23, 1999  
Tri-Party Agreement Milestone  
Status Report

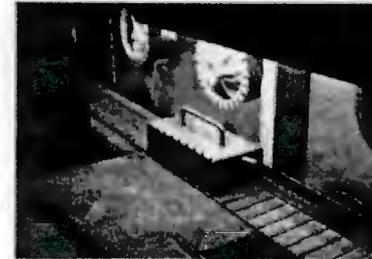
Ecology Project Manager - S Mohan  
DOE-RL Program Manager - LD Romine  
FDH Environmental Sponsor - AM Hopkins

## Program Manager's Assessment

- **Environmental:** Project continues to make significant progress on completing Chemical Hazard Mitigation issues identified during Ecology compliance inspection.
- **Safety:** Safety performance has degraded with a noted increase in injuries. Injury trends have been analyzed and in investigative report prepared for PFP senior management. Corrective actions are being worked.
- **Cost and Schedule:** Cost and Schedule continue to be an issue; however, approval of BCR #FSP-99-010 and customer concurrence to accept delay on Tank 241-Z-361 activities due to higher Tank Farm priorities will help to recover.

## Major Accomplishments

- PFP Operations resumed January 15, 1999 with restart of Thermal Stabilization process.
- 1998 update to the PFP Final Safety Analysis Report submitted to DOE-RL January 27, 1999.
- Completed draining and removal of approximately 100 feet of piping associated with PRF Tank A-106.
- Completed corrective measure 6.
- PFP cementation treatment unit Part A permit application submitted to Ecology and EPA, December, 1998.



## Planned Accomplishments

- Re-baseline project and issue IPMP and subproject planning documents consistent with new project baseline (April 1999).
- Perform critical analysis of IPMP.
- Resume technical discussions with Ecology/EPA and reach agreement on proposed schedule and scope to restart transition negotiations.
- Issue the Surplus Plutonium Disposition Environmental Impact Statement Record of Decision.
- Complete resolution of technical issues outside TPA discussions in accordance with Ecology letter dated December 11, 1997.
- Complete Tank 241-Z-361 venting activities in March and core sampling in July 1999.

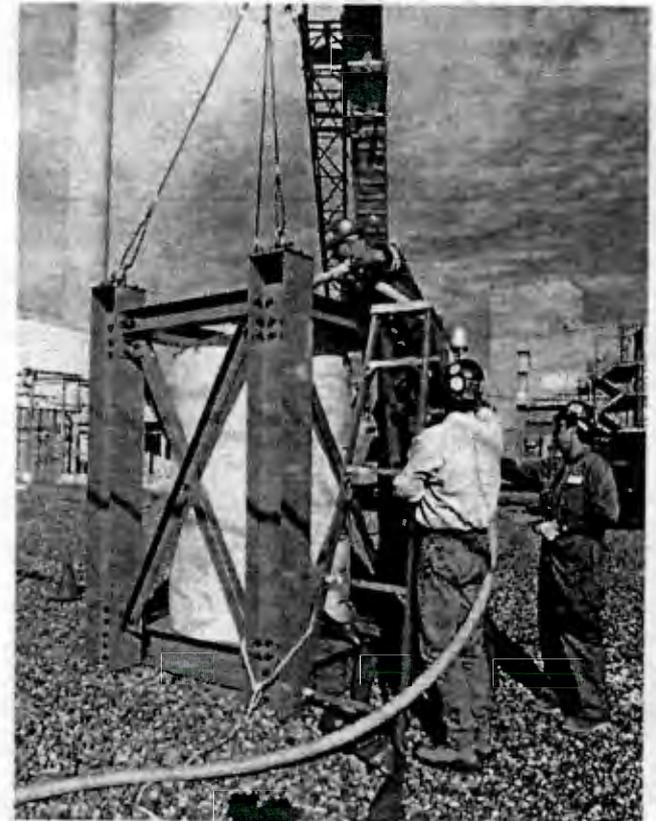
## Tank 241-Z-361

### – FY 1998 Progress

- Load Tests Completed (Crawler + Dome)
- Riser Dimensions verified
- Risers sampled for flammable gas - none detected
- Risers smeared for contamination - some fixed, no smearable
- Ground Penetrating Radar inspection completed - no unexpected items found

### – FY 1999 Planned Actions

- Tank venting scheduled for March completion
- Core sampling scheduled for June 1999
- Lockheed Martin Hanford team undergoing additional training



## Baseline Performance

(Against the PFP MYWP)

- Cost: <\$7.7M>
- Schedule: <\$1.9M>
- **Impact:** Minor delay to plutonium stabilization restart.
- **Corrective actions:** A) Submitted baseline change request to align final funding profile to the current MYWP workscope. B) Complete project rebaselining by May 1999. Rebaselining to include a revised path forward for Project W-460, which is the primary cause for the schedule variance. C) Accelerate schedule for characterizing Tank 361 samples.

## Issues

**Issue:** Scope of the PFP transition negotiations is not clearly defined.

- **Impact** - Negotiations remain suspended until issue resolved.
- **Status/Corrective Actions** - IPMP defining scope of PFP transition activities.

**Issue:** Schedule of necessary and planned PFP transition work not clearly defined.

- **Impact** - Cannot proceed with negotiations until issue resolved.
- **Status/Corrective Actions** - "Tiger Team" activities to re-baseline project will assist in producing a well-defined project schedule.

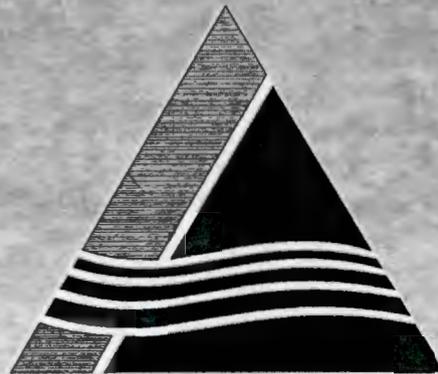
**Issue:** Timely and definitive waste/material designations and management of wastes and materials accordingly.

- **Impact** - Manner of resolution will affect the scope of the negotiations.
- **Status/Corrective Actions** - Surplus Plutonium Disposition Environmental Impact Statement ROD. Will work with Ecology to establish approach to managing materials.

Richland Environmental Restoration Project

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# TPA Quarterly Review



*Tri-Party Agreement*

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

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**February 23, 1999**

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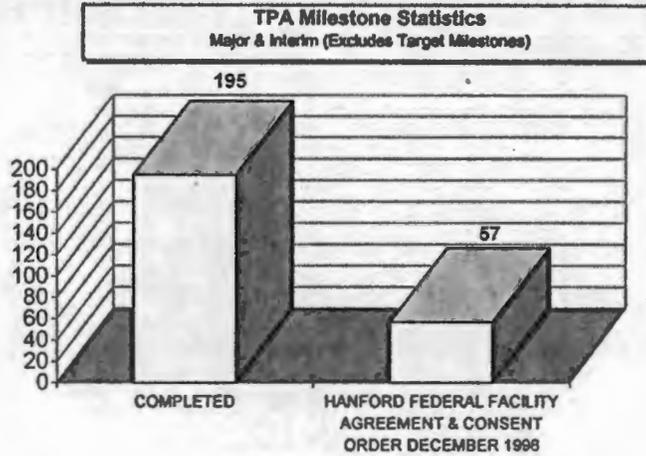
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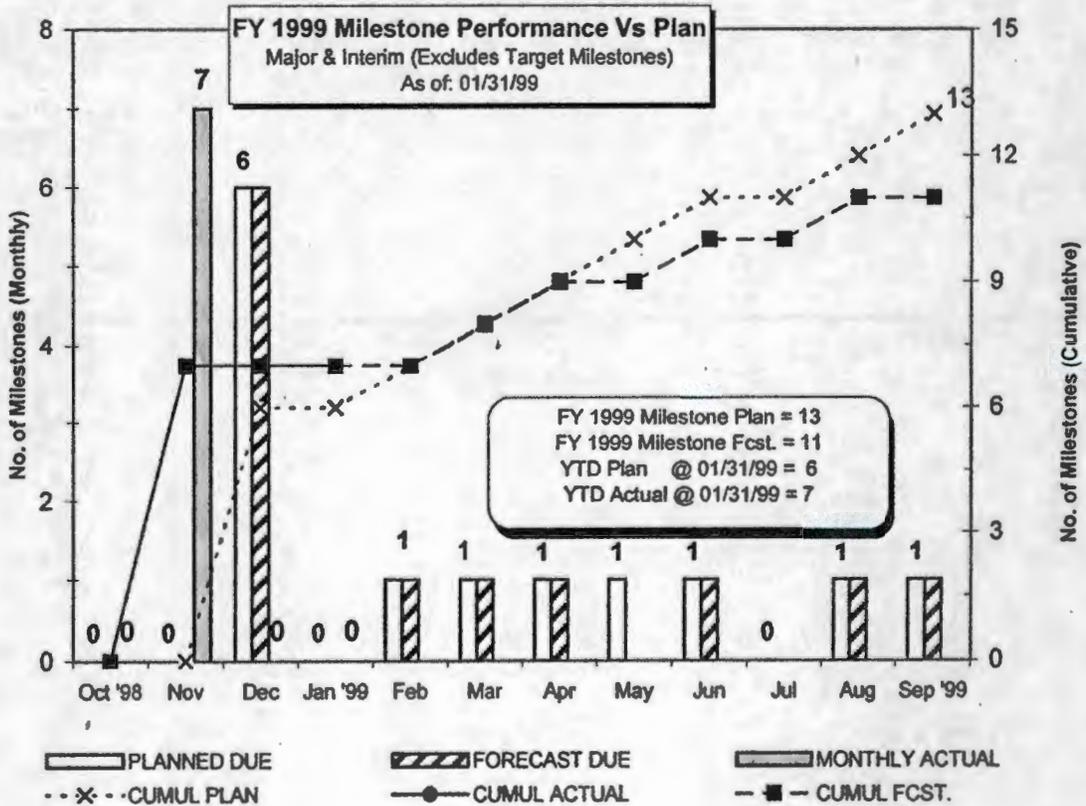
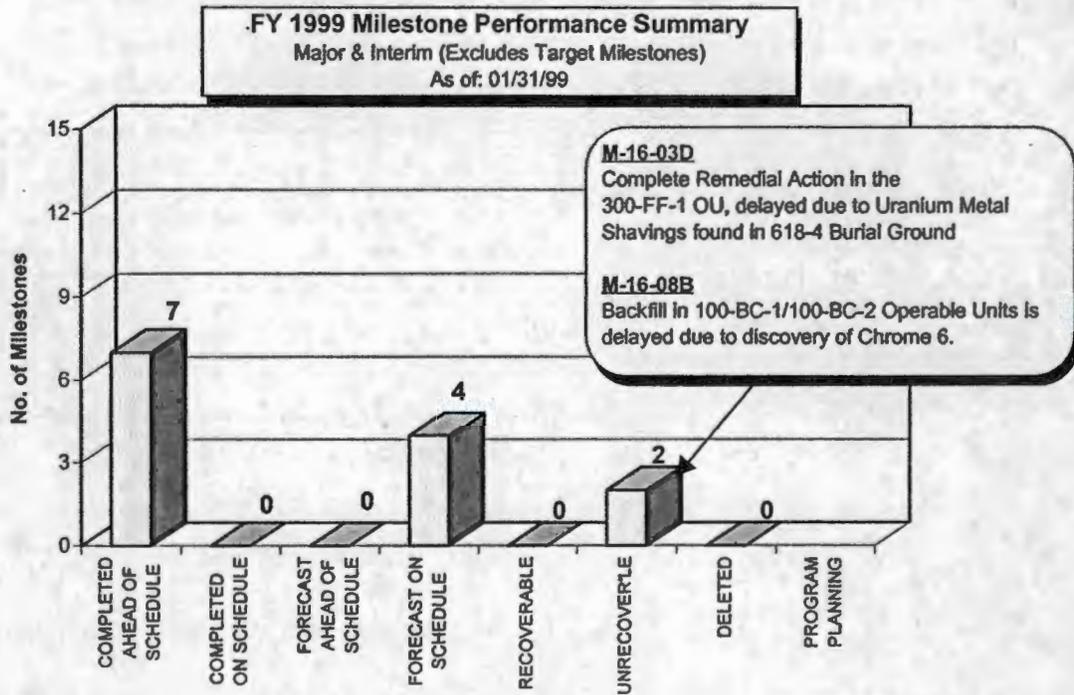
- Overview
- TPA Schedule
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**TPA Milestone Statistics**  
Major & Interim (Excludes Target Milestones)

	Compliance Due Date	Total Active @12/98	Milestone Number	Compliance Due Date	Milestone Number	Compliance Due Date
<b>M-13-00</b> Submit Workplans for RFI/CMS or RI/FS Studies	<b>12/31/2005</b> (M-13-00P)	<b>12</b>	M-13-00K	12/31/2000	M-13-19 (C)	02/28/1999
			M-13-00L	12/31/2001	M-13-20	04/30/1999
			M-13-00M	12/31/2002	M-13-21	08/31/1999
			M-13-00N	12/31/2003	M-13-22	12/31/1999
			M-13-00O	12/31/2004	M-13-23	04/30/2000
			M-13-00P	12/31/2005	M-13-24	08/31/2000
<b>M-15-00</b> Site Investigations / Feasibility Studies	<b>12/31/2008</b> (M-15-00C)	<b>5</b>	M-15-00	12/31/2008		
			M-15-00A	12/31/1999		
			M-15-00B	12/31/1999		
			M-15-00C	12/31/2008		
			M-15-23B	11/30/1999		
<b>M-16-00</b> Remedial Design / Remedial Action	<b>9/30/2018</b> (M-16-00)	<b>16</b>	M-16-00	09/30/2018	M-16-08B	09/30/1999
			M-16-00A	TBD	M-16-10A	07/31/2002
			M-16-00B	TBD	M-16-13A	01/31/2000
			M-16-00F	12/31/2001	M-16-13B	08/31/2003
			M-16-01	TBD	M-16-26A	03/31/1999
			M-16-03A	06/30/2002	M-16-26B	02/28/2001
			M-16-03D	05/31/1999	M-16-26C	08/31/2000
			M-16-07B	04/30/2000	M-16-92B	12/31/1999
<b>M-20-00</b> Submit Closure Plans for All RCRA TSD Units	<b>2/28/2004</b> (M-20-00)	<b>10</b>	M-20-00	02/28/2004	M-20-53	12/31/2003
			M-20-29A	12/31/1999	M-20-54	02/28/2004
			M-20-33	10/31/2003	M-20-56	12/31/2000
			M-20-39	02/28/2003	M-20-57	12/31/2000
			M-20-52	12/31/2003	M-20-58	12/31/2003
<b>M-24-00</b> RCRA Groundwater Monitoring	<b>12/31/2003</b> (M-24-00O)	<b>6</b>	M-24-00J (C)	12/31/1998	M-24-00M	12/31/2001
			M-24-00K	12/31/1999	M-24-00N	12/31/2002
			M-24-00L	12/31/2000	M-24-00O	12/31/2003
<b>M-70-00</b> ERDF Operational	<b>7/01/1996A</b> (M-70-00)	<b>0</b>				
<b>M-93-00</b> Reactors on River Final Disposition	<b>TBD</b> (M-93-00)	<b>8</b>	M-93-00	TBD	M-93-11	09/30/2003
			M-93-04	06/30/1999	M-93-12	02/28/2002
			M-93-05	06/30/2000	M-93-14	06/30/2003
			M-93-10	07/31/2003	M-93-15	12/31/2003
<b>TOTAL</b>		<b>57</b>				
<b>COMPLETED SINCE 12/98</b>			<b>2</b>			

FY 1999 TPA MILESTONE PERFORMANCE



TPA First Quarter Review

**FY 1999 TPA MILESTONE SUMMARY AS OF 1/31/99  
(Excludes Target Milestones)**

Item	FY99 Month	Milestone	Description	Planned Due Date	Forecast/ Actual Date	Completed		Forecast		Recov-erable	Unrecov-erable	Deleted
						Ahead Schedule	On Schedule	Ahead Schedule	On Schedule			
1	Dec-98	<sup>3</sup> M-24-36	Install one (1) Replacement RCRA Well for the 216-U-12 Crib	12/31/98	11/25/98A	X						
2		<sup>3</sup> M-24-37	Install two (2) Replacement RCRA Wells for the SST WMA T	12/31/98	11/25/98A	X						
3		<sup>3</sup> M-24-38	Install four (4) Replacement RCRA Wells for the SST WMA	12/31/98	11/25/98A	X						
4		<sup>3</sup> M-24-39	Install two (2) Replacement RCRA Wells for the SST WMA U	12/31/98	11/25/98A	X						
5		<sup>3</sup> M-24-40	Install one (1) Additional RCRA Wells for the SST WMA B-BX-BY	12/31/98	11/25/98A	X						
6		M-24-00J	Install RCRA Groundwater Monitoring Wells @ the Rate of 0 to 50 in CY 1998 (if Required)	12/31/98	11/25/98A	X						
7	Jan-99	C-10-06	The Hanford Site Waste Management Units Report	01/31/99	12/28/98A	X		(Not included in total)				
8	Feb-99	M-13-19	Submit 200 North Pond & Trench Cooling Water Plan	02/28/99	11/02/98A	X						
9	Mar-99	M-16-26A	Initiate Remedial Action for 100-HR-1 OU	03/31/99	03/15/99F				X			
10	Apr-99	M-13-20	Submit 200 Gable Mountain /B Pond & Ditch Cooling Water Group Work Plan	04/30/99	04/30/99F				X			
	May-99	<sup>1</sup> M-16-03D	Complete Remediation of the 300-FF-1 Waste Sites	05/31/99	08/31/01F						X	
11	Jun-99	M-93-04	Submit 105-B Hazards Assessment & Characterization Report to EPA	06/30/99	06/30/99F				X			
12	Aug-99	M-13-21	Submit 200 Chemical Sewer Group Work Plan	08/31/99	08/31/99F				X			
13	Sep-99	<sup>2</sup> M-16-08B	Complete Remediation & Backfill of 19 Liquid Waste Sites & Process Effluent Pipelines in 100-BC-1/100-BC-2 OUs.	09/30/99	12/31/99F						X	
<b>TOTAL FY 1999 TPA Milestones</b>				<b>13</b>	<b>7 (A); 4 (F)</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>0</b>

<sup>1</sup>M-16-03D Completion of the 300-FF-1 Remediation is delayed due to 618-4 Burial Grounds finding of Uranium Shavings in rusted barrels.

<sup>2</sup>M-16-08B Backfill in 100-BC-1/100-BC-2 Operable Units is delayed due to the discovery of Chrome 6.

<sup>3</sup>These milestones are not listed in the December 1998 Hanford Federal Facility Agreement and Consent Order.

# STATUS BY PROJECT

## Overall Status

Remediation work continued at the 100 B/C, D, DR, and 300 Areas, where soil excavation is proceeding ahead of schedule. More than 125 truckloads of contaminated soil were transported daily to the ERDF. Expansion of two new cells at the ERDF is progressing ahead of schedule.

## B/C Area Remediation.

- For FY99, 61,657 tons of contaminated material have been removed and disposed through December from the B/C sites. Presently, 627,820 tons of waste have been removed.

## D Area Remediation.

- Remedial action work at the 100-D site continued, with major excavation activities occurring in the 116-DR-9-retention basin. A total of 510,857 tons have been removed since work began in November 1996.

## H Area Remediation.

- Estimates for performing H Area remediation have been received and are being evaluated from five bidders. The contract is expected to be awarded in January. *(The H Area Remediation contract was awarded in January. Contractor mobilization will occur in February with excavation scheduled to start in March. )*
- *(An ERC office facility is being set up at the site.)*

## 100-NR-1 Remedial Design.

- Soil samples from the 1301-N and 1325-N Cribs were collected ahead of schedule. Dose readings from the samples were much lower than expected which could result in project savings.

## 300 Area Remediation.

- Radiological postings were removed from the 300 Area Process Trenches and the site has been seeded for revegetation. This site has been cleaned up in accordance with the criteria specified in the CERCLA Record of Decision.
- Contamination in the 300 Area North Process Pond continues to extend well beyond previous estimates. Excavation has now extended 25 feet below the original design elevation. This has increased the estimated amount of contaminated soil by almost 30,000 tons and has extended the project schedule by two months. *(A Baseline Change Proposal (BCP) has been approved to address this additional scope.)*

- Excavation of contaminated soil has commenced in the South Process Pond.
- Work is progressing towards 300-FF-2 waste site categorization. All 420 waste site walkdowns have been completed. 129 waste sites were removed from the CERCLA process.
- On December 11, the ten thousandth container of 300-FF-1 remediation project waste was excavated and shipped to the ERDF. 45,025 tons of material have been removed and disposed through December 1998. To date, 192,099 tons have been removed and disposed.

## ERDF Operations.

- For FY99, 174,279 tons of contaminated waste have been transported to ERDF. A total, 1,376,042 tons of material have been placed in the disposal facility which is ahead of the plan.
- 1,000,000 miles have been driven without a spread of contamination.
- New safety devices have been installed on all truck trailers to ensure that hoist cables connected to containers remain taut.
- A new device is being designed to eliminate repetitive motion injuries associated with opening and closing of the roll-off container tailgates.

## ERDF Cells 3 and 4 Construction.

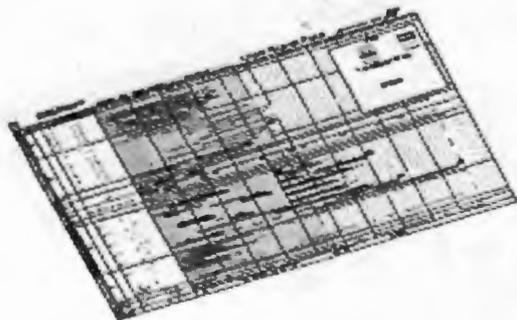
- ERDF expansion of two new cells proceeded ahead of schedule, with over 800,000 cubic yards excavated through December.
- Completed soil placements on the north and south embankments, installation of the leachate transfer line (LTL) piping to the UP-1 tie-in in 200 West Area, placement and compaction of the 1½" crushed rock, and loading/unloading slab extension activities. Pump house tie-in work was also completed.
- The leachate collection system (LCS) lines on the existing north and south embankments have been installed and tested, with backfill operations nearing completion. *(Completed in January.)*



## Overall Status

Five pump and treat units operated at or above planned availability. Six *Tri-Party Agreement* milestones, all related to groundwater well installations, were completed ahead of schedule.

The *Groundwater/Vadose Zone Integration Project Specification, Baseline, and Long Range Plan* documents were completed ahead of schedule. Public involvement activities continued as scheduled.



## Groundwater/Vadose Zone activities:

- Preparations began for hosting the GW/VZ Integration Project Expert Panel meeting, which will be held in early February. (*The Expert Panel and Public Participation meetings were held February 1-3.*)
- The Hanford Advisory Board ER Committee was briefed on the project status.
- Weekly Policy Working Group meetings continued to work on policy issues for the GW/Vadose Zone Integration Project.
- Project representatives met with the management representatives from the national laboratories and with National Academy of Sciences representatives. The team from the national laboratories issued a draft of the Science and Technology Plan.

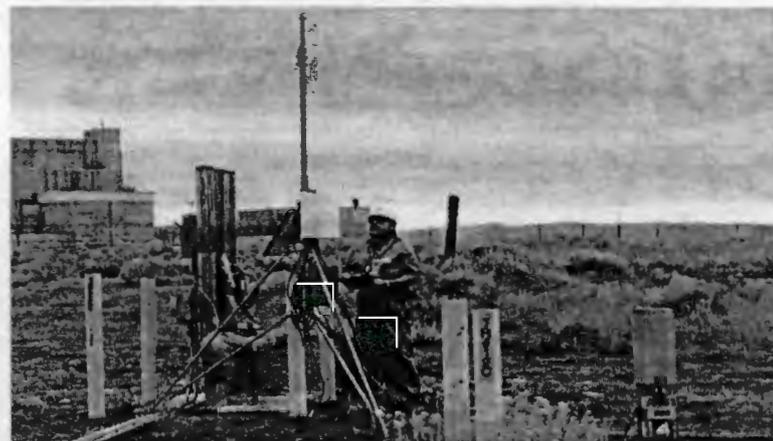
## Groundwater Management activities:

### Well Drilling, Sampling, Maintenance, and Decommissioning.

- Drilling of 10 RCRA-compliant monitoring wells in the 200 West Area was completed, satisfying five *Tri-Party Agreement* milestones (M-24-36 through 40) ahead of schedule. These wells comply with RCRA operational monitoring requirements.
- Two monitoring wells were installed, satisfying *Tri-Party Agreement* milestone M-24-00J ahead of schedule.
- Well sampling continued at various locations around the Hanford Site.

### Long-Term Monitoring.

- Through December samples have been collected from 142 of the 181 planned long-term monitoring wells for the year (78%).
- 435 analytical results were received through December, out of 477 planned.
- The *RCRA Groundwater Assessment Plan* for the Single Shell Tank (SST) Waste Management Area (WMA) was submitted to RL for review.
- The *Proposal for Fiscal Year 1999 Vadose Zone Monitoring and Guidance for Subsequent Years for Liquid Waste Disposal Facilities* was issued in December for a 60-day review and comment period.



## Interim Action Monitoring.

- Well sampling to support interim action monitoring for the pump and treat systems continued. Samples were collected from the 100-HR-3, 100-KR-4, 200-UP-1 and 200-ZP-1 units. The aquifer sampling tube effort was completed.

## Consolidated Modeling.

- A regulator/stakeholder meeting on groundwater consolidated modeling was held. This was followed by the first onsite peer review of the consolidated modeling task (on November 20-21). *(Reviewer's comments were received on January 29<sup>th</sup> and issued electronically January 30<sup>th</sup>.)*

## 200-ZP-1 Pump and Treat.

- Through December, 80,442,000 liters of groundwater have been processed, with 302.22 kg of carbon tetrachloride removed. From inception to date, 695,312,000 liters have been processed.

## 200-ZP-2 Vapor Extraction.

- The 500-cfm vapor extraction system was shut down on September 30 for cold weather protection. The system will be down during the winter months. It is scheduled to be restarted in April 1999.

## N-Springs Pump and Treat.

- 25,724,000 liters of groundwater have been processed for FY99 to date, removing .02 curies of strontium. 329,503,000 liters have been processed from inception to date.

## HR-3 Pump and Treat.

- The 100-HR-3 system was shut down as a result of control system failure during November's high winds. An evaluation of the radio signal timer for the AMP transfer stations is in progress.
- 64,533,000 liters have been processed for FY99 to date; 12.04 kg of chromium have been removed. 458,262,000 liters of groundwater have been processed from inception to date, with 50.563 kg of chromium removed.
- The DQO process was initiated for installation of 12 remedial design wells in the 100 D Area. The wells will be installed in the spring of 1999 to define the chromate plume.

## KR-4 Pump and Treat.

- 67,702,000 liters have been processed from inception to date, with 9.52 kg of chromium removed.

## UP-1 Pump and Treat.

- 20,330,000 liters have been processed for FY99 to date. 159,453,000 liters have been transported to the Effluent Treatment Facility (ETF) for processing. 295,819,000 liters have been processed from inception to date at both facilities.
- The ERDF leachate pipeline tie-in was completed in December.

## 200 Area Remedial Actions.

- Regulatory review of the Draft A, 200 Area Remedial Investigation/Feasibility Study (RI/FS) Implementation Plan was completed.
- Ecology's review of the draft 200-CW-1 Gable/B Pond and Ditches Cooling Water Group Data Quality Objective (DQO) Workbook was completed and comments are being incorporated. Based on Ecology's comments, additional characterization will be required over what is planned at an estimated additional cost of \$450,000.
- Draft B of the *200 Area Remedial Investigation/ Feasibility Study (RI/FS) Implementation Plan* began a public review in November. *Tri-Party Agreement* Milestone M-13-19, "Submit 200 North Pond Cooling Water Work Plan," was achieved on November 2, ahead of schedule meeting this milestone.



### Overall Status

The FY99 structural demolition activities at the F Reactor Interim Safe Storage (ISS) project were completed ahead of schedule. DR Reactor ISS work is proceeding ahead of schedule. 108-F demolition planning activities, including preparation of safety documentation, were initiated. Decommissioning of the 233-S Plutonium Concentration Facility continued.

### F/DR ISS.

- Repair of the F & DR yard fire loops that are used for demolition dust suppression were completed.
- Laboratory analysis of the F/DR Reactors Phase II (balance of above grade structures) demolition release samples was completed.
- Installation of the DR septic drain field was completed.
- DR exterior duct removal, setup of the DR temporary power and light load centers and light stringers was completed.
- Asbestos abatement, hazardous material removal, and liquid pipe check activities were also in progress.
- Structural demolition of the F Reactor northeast reactor area and the control/outer rod room was completed ahead of schedule. This completes the FY99 demolition scope for the F Reactor.

### 108-F Building Demolition Project.

- The 108-F Biology Laboratory was released for demolition activities, after being placed on management hold pending release of FY 1999 funding. Re-baseline activities were initiated in December, along with development of the draft hazard classification document and schedule.

### 233-S Plutonium Concentration Facility Demolition.

- Installation of an airlock connecting the can storage room, load-out room, viewing room, and stairwell was completed. A back flow damper between the pipe gallery and viewing room was also installed.
- A glovebag was installed for future metal cutting work needed on the loadout hood exhaust duct.

- Three cold trench pipelines were isolated. Two of the pipes were sectioned, packaged, and temporarily stored as waste.
- The potentially combustible gas identified in the resin makeup line in November was purged and collected for analysis in December. The load out hood work was curtailed for approximately three weeks while techniques were developed for purging the line. The resin line was removed.
- 62 boxes, totaling over 4200 cubic feet of contaminated material, have been shipped to date to ERDF.

### Balance of Decommissioning Projects.

- Final closeout activities continued for the C Reactor ISS roofing contract.



## Overall Status

Facility surveillance and maintenance activities continue to be performed on schedule.

## Canyon Disposition Initiative (CDI).

- A National Electric Code inspection of the 221-U Canyon crane was completed. The inspection identified 16 pre-existing code non-conformances. An estimate of the cost and schedule impact is under development. The crane inspection and repairs delayed Canyon Disposition Initiative (CDI) work. *(Commenced work package preparation for corrective actions identified during National Electric Code Inspection of U Canyon crane. Completed Notice of Construction for removing cover blocks. Anticipate the work to be completed the end of February.)*

## Facility Transition.

- Preparatory work for stabilization of the PUREX and 1303-N facilities is proceeding on schedule.
- Project personnel interfaced with B&WHC to develop a punchlist completion schedule for the turnover of B Plant at the end of March 1999.

## Other S&M Activities.

- Surveillance activities at B Reactor and N Area were completed.
- Fall re-vegetation activities were completed.
- Surveillances at D and H Areas commenced.



- The interim stabilization of contamination on the ground at the TC-4 railroad spur is in process. This site covers approximately four acres, and will be stabilized by covering the site with clean soil until final remediation can be completed.



- Three outfalls with the potential to discharge water directly into the Columbia River were isolated, stabilized, and backfilled.
- Annual surveillances were completed at the 105-H and 105-KW reactors. DQO workbooks were completed for the 107-KE/KW and 107-F pipe removal tasks.
- An air-monitoring plan was completed for the removal of the legacy waste located at the front face of the 105-B and 105-KE reactors.
- The bid evaluation was completed for performing the 105-N and 109-N roof repairs, and a bidder was selected.
- Approximately 1800 gallons of contaminated liquid was pumped from the V-11-10 tank at the PUREX Facility. Final disposition will be at the Effluent Treatment Facility.
- The *Management Plan for Inactive Miscellaneous Underground Storage Tanks (IMUST) (BHI-01018)* was issued. There are 22 IMUST. All are located in the 200 Areas. The management plan provides historical data about the tanks, hazard and safety analyses, and a schedule for resolving issues.
- The *Surveillance/Maintenance and Facility Transition Communication Plan* was issued.

**Design Engineering**

- A self-assessment of the Environmental Restoration (ER) design change process was performed to verify if appropriate walkdowns are being carried out and to assess the benefits derived from such walkdowns.

**Technology Applications**

- A concept was developed for using the CDI project as a pilot to facilitate better integration with, and support from, other EM-50 focus areas and crosscut programs.
- Equipment demonstrations were conducted to test ultrasonic means and radiography as potential technologies for detection of freestanding liquid in equipment and pipes.

**Environmental Sciences**

- A memorandum of agreement is being prepared for 1100 Area land transfer. An intranet-based, Sample Summary Report, was developed that will allow the ER projects to quickly view a summary of their sampling activities.

**External Affairs.**

- Various communications products were prepared for the Secretary of Energy's visit to Hanford in November, which included the completion ceremony for the C Reactor ISS project. Among these products were a media advisory, news release editing, invitations, coordination of site/event logistics, development of briefing presentation, and talking points for ceremony speakers.

**Project and Program Support**

- ER has exceeded its socio-economic goals through December.

**Planning & Controls**

- The ER *Long Range Plan* (LRP) was completed on November 30, satisfying the December 1 deliverable to RL. The LRP includes three baseline books that contain narratives, cost/man-hour reports, schedules, and graphs. A wall chart was also prepared that depicts ER scheduled activities and milestone deliverables through 2044. The chart includes required funding, technology insertion points (TIPS), and quantity data. Wall charts for the 100/200/300 Areas sites and facilities were also completed.

**Compliance, Quality, Safety & Health**

- Y2K (year 2000 problem) testing was completed, and validation reports were prepared for five software applications (including the electronic time-card system).

**ISSUES**

### REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

**Issue:** Lead-contaminated soil that exceeds ERDF waste acceptance criteria was discovered in Landfill 1D and the 618-4 burial ground, at 300-FF-1. These soils cannot be disposed at the ERDF until a plan for further characterization/treatment/disposal is developed. EPA has advised RL that the 42 containers at the ERDF will need to be treated.

**Strategy/Status:** A proposal has been submitted to the EPA for concurrence. ER has suggested that some of the soil may be allowed to remain in place without treatment, if the interspersed debris is removed and sent to the ERDF. EPA is considering this option and, if approved, it could result in significant volume reduction.

### GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

**Issue:** The effectiveness for removing uranium at 200-UP-1 has decreased. The path forward on 200-UP-1 is still uncertain.

**Strategy/Status:** Operations have been approved through FY99. Discussions with the Washington State Department of Ecology will continue regarding future plans.

**Issue:** Barrier demobilization scheduled to start in October has been re-scheduled to start in February.

**Strategy/Status:** EPA has requested that the decision to close out the barrier be delayed while EPA and RL review the additional funding needs to extend the testing through the end of the fiscal year.

**Issue:** Capital Groundwater monitoring well installation funds will be expended this year with no funds available for out-years at this time.

**Strategy/Status:** RL is reviewing the need for additional funding (either capital or expense) for well replacement/installation in FY 2000 – FY2001.

**Issue:** System assessment capability (SAC) is behind schedule because clarifications of requirements were more complex than initially thought. Drafting of candidate set criteria, candidate sets, and scoping studies are planned for completion in April.

**Strategy/Status:** A meeting is planned for February 24<sup>th</sup> with the regulators and stakeholders to clarify the role of SAC in decision making.

### DECOMMISSING PROJECTS

**Issue:** The PHMC is preparing to re-call nuclear process operators who, due to higher seniority, "bumped" former ER craft personnel (who were then laid off by the ERC). As a result of the re-call, some of the trained D&D craft workers will need to be replaced again. This will create additional hiring, training, and other administrative costs, and is expected to temporarily slow scheduled progress.

**Strategy/Status:** The ER project is in the process of identifying potential replacements, particularly from the D&D recall list of laid-off D&D workers, in accordance with the HAMTC labor agreement. New or rehired employees will be trained as quickly as possible.

### SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS

**Issue:** The Action Memo for RARA waste must be approved prior to the start of fieldwork for the 107 KE/KW, F pipe removal activities.

**Strategy/Status:** The EE/CA was completed on November 19, 1998. Due to delays during the RL legal review the document did not get transmitted to EPA/Ecology until December 7, 1998. In order to meet the DWP schedule, the Action Memo needs to be issued by March 31, 1999. Currently the Action Memo is anticipated to be issued by mid-April, 1999.

**Issue:** The scope covered by the proposed RARA EE/CA has not been agreed to.

**Strategy/Status:** RL to contract the regulators regarding the original intent identified in the DWP.

### PROGRAM MANAGEMENT AND SUPPORT

**Issue:** FY 2000 and FY 2001 budget guidance does not support TPA compliance milestones.

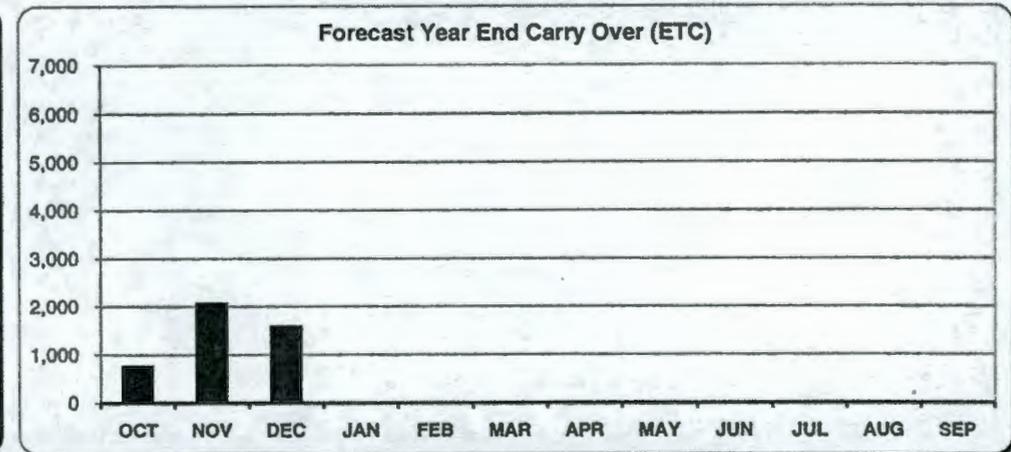
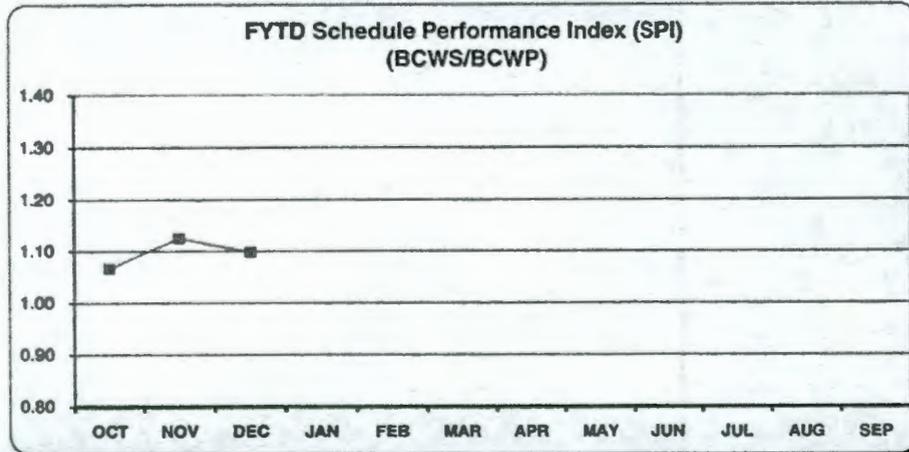
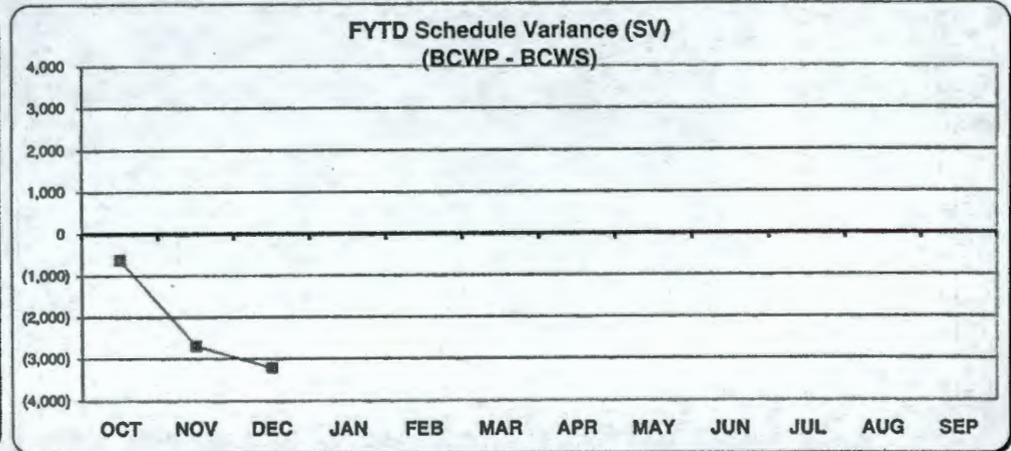
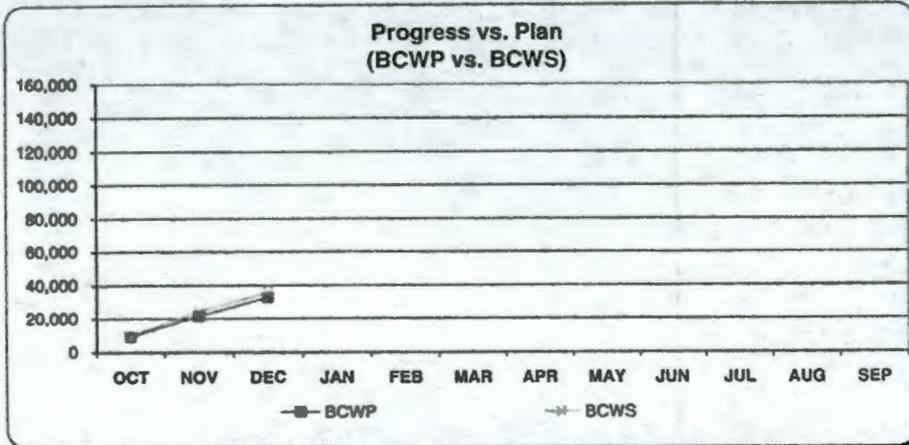
**Strategy/Status:** Meetings and discussions continue in an attempt to resolve funding issues.

# **COST/SCHEDULE STATUS**

OVERVIEW

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

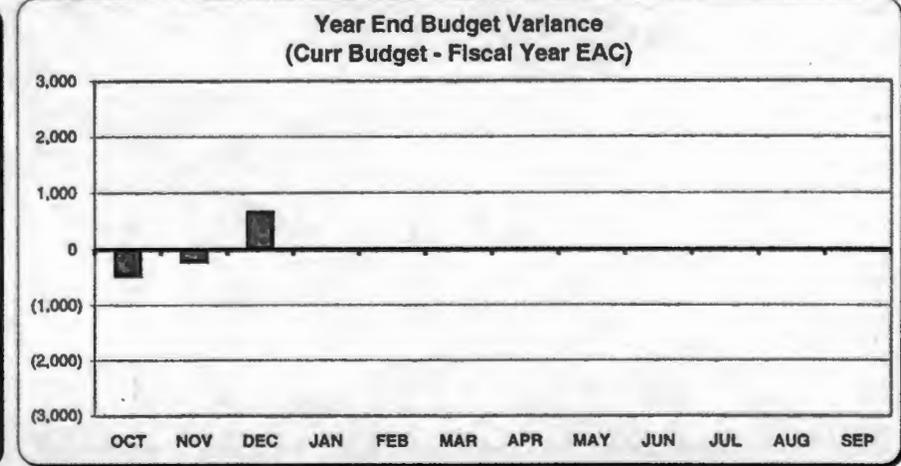
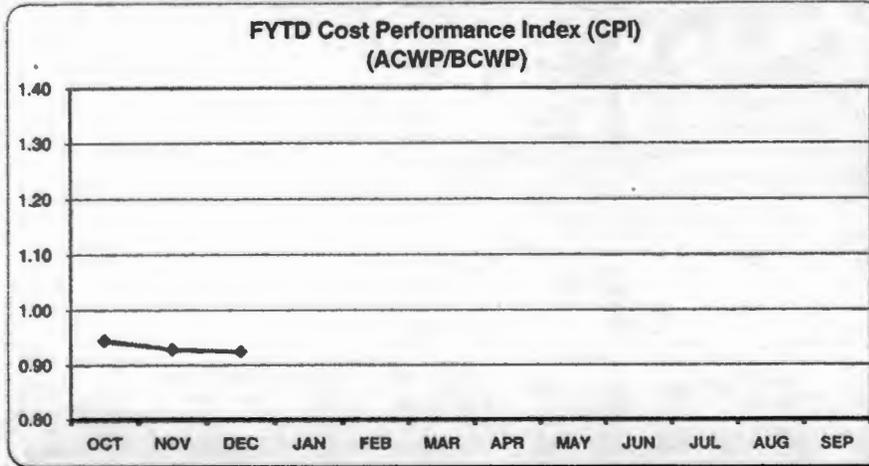
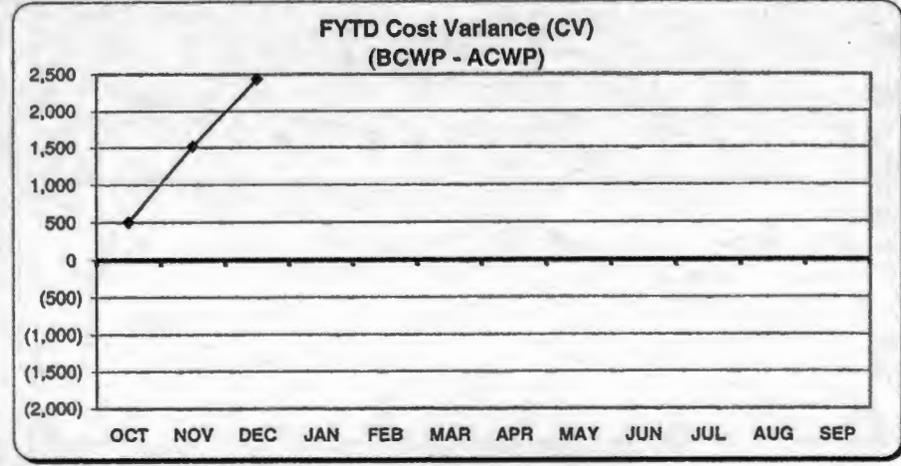
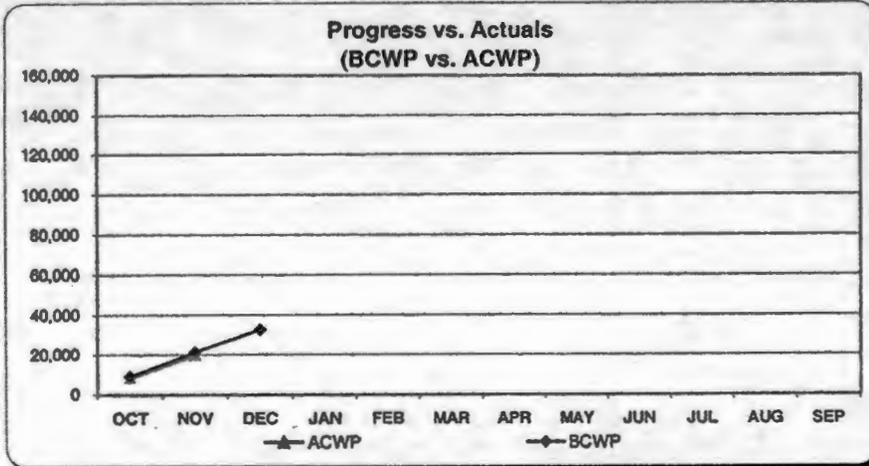


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	8,130	11,566	9,643	12,098	10,057	10,402	11,643	15,120	11,235	10,344	12,581	14,180
DWP (Accum)	8,130	19,696	29,339	41,437	51,494	61,896	73,539	88,659	99,894	110,238	122,820	137,000
<b>CURRENT PERIOD</b>												
BCWS	9,899	14,316	11,730	14,395	11,566	12,144	13,136	16,617	12,432	11,499	14,114	13,584
BCWP	9,278	12,245	11,204	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	9,899	24,215	35,945	50,340	61,906	74,050	87,186	103,802	116,235	127,734	141,848	155,432
BCWP	9,278	21,523	32,727	-	-	-	-	-	-	-	-	-
SV	(621)	(2,691)	(3,218)	-	-	-	-	-	-	-	-	-
SPI	1.07	1.13	1.10	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	755	2,052	1,561	-	-	-	-	-	-	-	-	-

**OVERVIEW**

**TPA First Quarter Review**

**COST PERFORMANCE (\$'s in 000)**



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	8,773	11,234	10,284	-	-	-	-	-	-	-	-	-	-
BCWP	9,278	12,245	11,204	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	8,773	20,007	30,291	-	-	-	-	-	-	-	-	-	-
BCWP	9,278	21,523	32,727	-	-	-	-	-	-	-	-	-	-
CV	505	1,516	2,436	-	-	-	-	-	-	-	-	-	-
CPI	0.95	0.93	0.93	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	8,773	20,007	30,291	45,300	57,518	70,272	83,579	100,150	112,201	125,045	139,435	153,202	154,764
Yr End Budget Var	(470)	(217)	668	-	-	-	-	-	-	-	-	-	1,561

**Schedule Variance Report**

<b>Project</b>	<b>Variance</b>	<b>Reason</b>	<b>Impact</b>	<b>Corrective Actions</b>
Remedial Actions	(\$0.9M)	The EPA has requested that closeout of the prototype barrier be delayed until additional funding is secured to extend testing through the end of the fiscal year; delays in disposal of lead contaminated soil; and deferred purchase of burial containers. These are offset by ERDF operations and new cell construction proceeding ahead of schedule, and early settlement of a contractor claim.	No impact to project milestones. Current projections indicate Landfill 1D can be completed in FY99.	A BCP is being prepared to re-baseline the project.
GW/VZ	(\$0.9M)	Preparation of candidate sets and risk assessment dependency webs documents are behind schedule; well monitoring and maintenance activities behind schedule; delays in groundwater modeling.	Project milestones are not in jeopardy.	Additional staff has been identified to assist with technical documentation preparation; recovery schedules have been implemented for monitoring and modeling activities.
Decommissioning Projects	(\$0.5M)	Decommissioning work at the 233-S Plutonium Concentration Facility is behind schedule due to delays from the discovery of a potential combustible gases during removal of loadout hood resin pipe; CAM alarm due to weather inversion induced RADON buildup; delayed re-commencement of 108-F demolition; schedule delays are partially offset by work progressing ahead of schedule at the F Reactor ISS project.	Activities that are delayed at the 233-S project are expected to be recovered within two months; 108-F delays will require a project re-baseline but work will be completed in FY99.	A recovery plan has been implemented at the 233-S project; a BCP is being prepared to re-baseline the 108-F demolition.
Surveillance & Maintenance	(\$0.2)	Corrective actions from the electrical hazard investigation have delayed cell cover block removal and radiological surveys of the cells.	A preliminary evaluation identified a four-month schedule delay.	A baseline change request is being prepared to incorporate the additional work scope.
Program Management	(\$0.7M)	Billing not received for site-wide assessments.	N/A	Payments will be made in December.
<b>Total</b>	<b>(3.2M)</b>			

**Cost Variance Report**

<b>Project</b>	<b>Variance</b>	<b>Reason</b>	<b>Impact</b>	<b>Corrective Actions</b>
Remedial Actions	<b>\$1.2M</b>	Underruns in B/C excavation costs and startup at the 100-HR near-river sites; waste transportation underruns due to high volume and mild weather; underruns in ERDF construction costs; Group 5 design effort less than planned; North Slope sampling underrun; streamlining technical document preparation; offsetting increase for container claim settlement.	Cost underrun.	Excavation costs will be offset by increases from the discovery of chromium plumes at two other waste sites. The potential also exists to utilize underrun dollars if unknown construction difficulties occur. Other savings will be used for other environmental restoration work.
GW/VZ	<b>\$1.0M</b>	Underruns due to late booking of planning and offsite analysis costs; labor requirements less than planned.	Cost underrun.	Savings will be used for other ER work.
Decommissioning Projects	<b>(\$0.0M)</b>	233-S project overruns relating to discovery of a potentially combustible hazard, and higher radiation levels than anticipated; increased closeout costs of the C Reactor ISS roofing contractor; offsetting productivity underruns at the F and DR Reactors ISS project.	Performance (relative to costs) increased in December, resulting in a reduction to the prior period's cost overrun.	Additional equipment and labor will be required to remove the combustible hazard at the 233-S facility.
Surveillance & Maintenance	<b>\$0.1</b>	Productivity savings in RARA stabilization and B Reactor maintenance.	Cost underrun.	Savings will be used for other ER work.
Program Management	<b>\$0.1M</b>	The underrun reflects staff labor efficiencies.	Underrun.	Savings will be used for other ER work.
<b>Total</b>	<b>\$2.4M</b>			





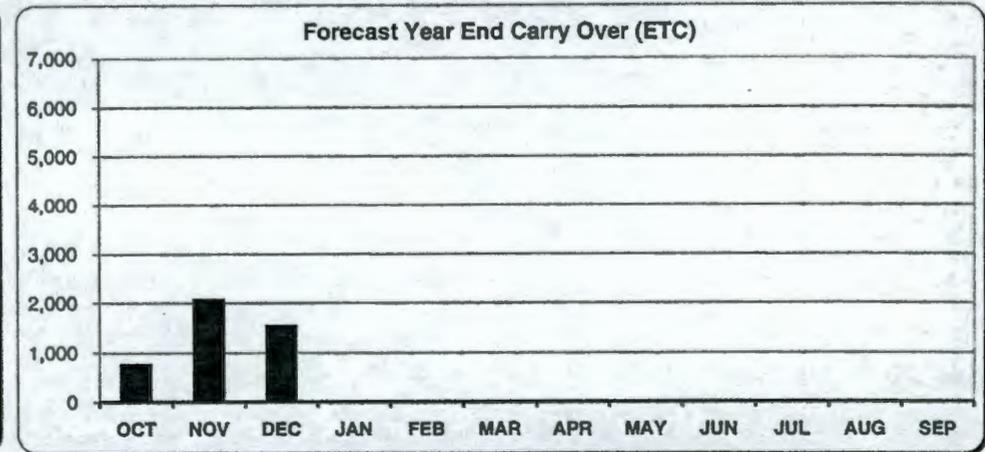
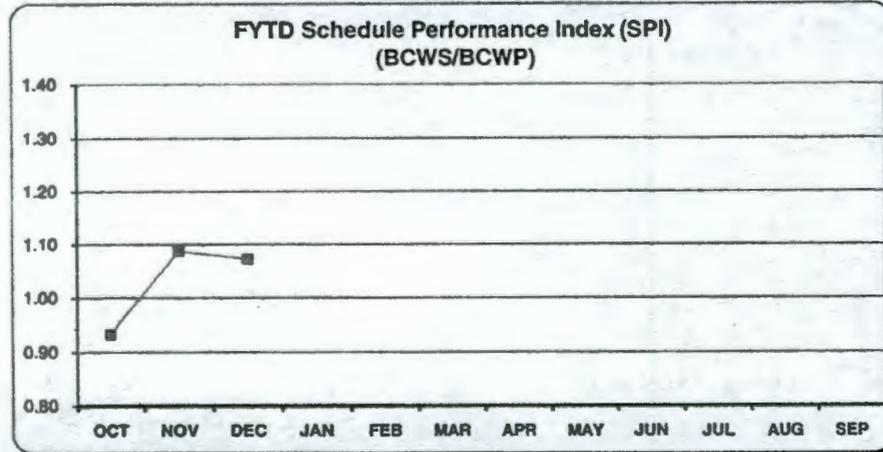
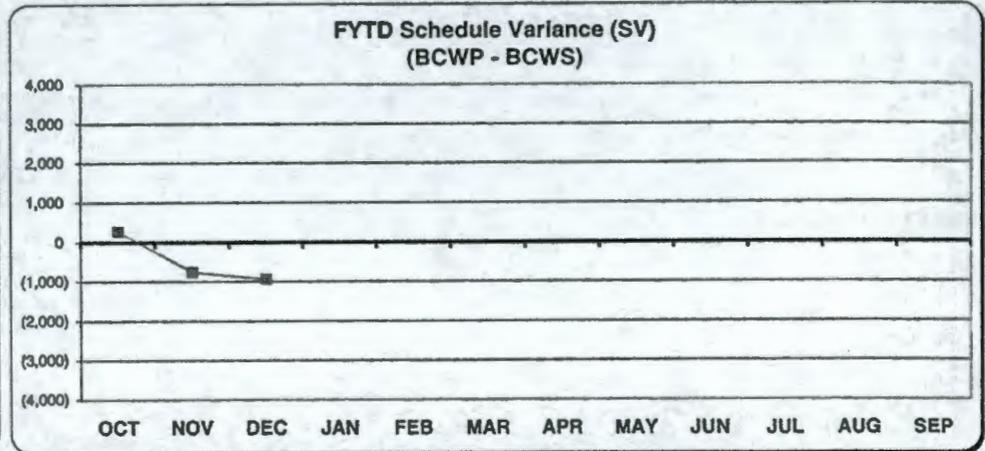
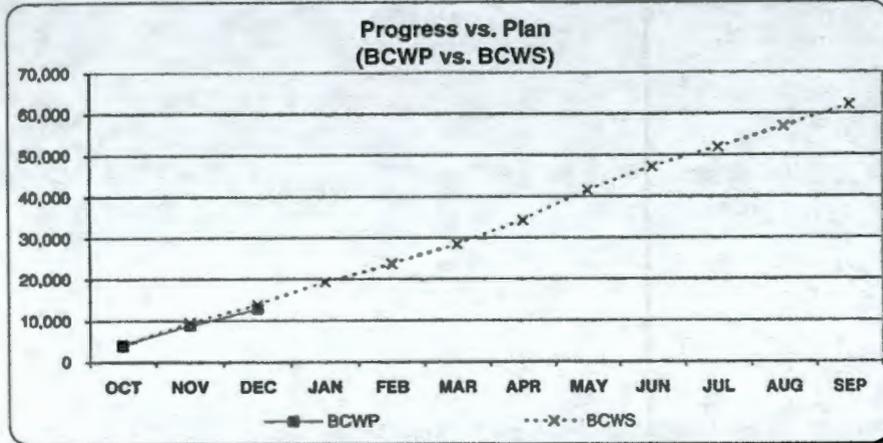




REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

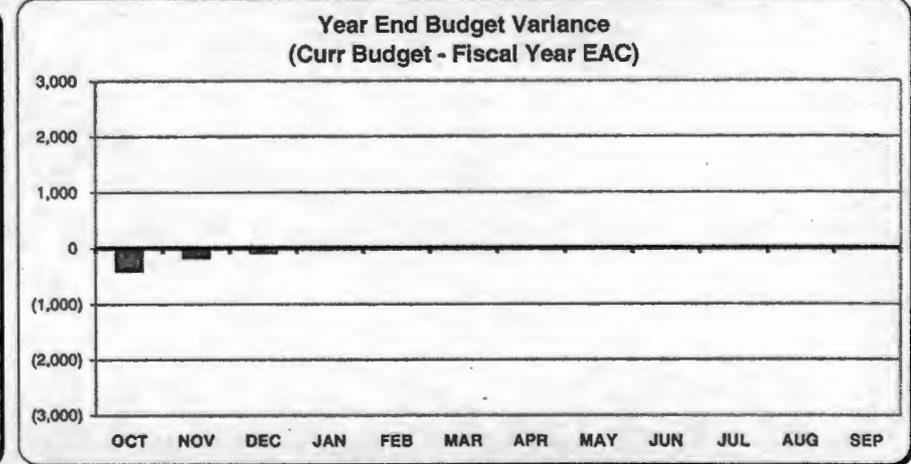
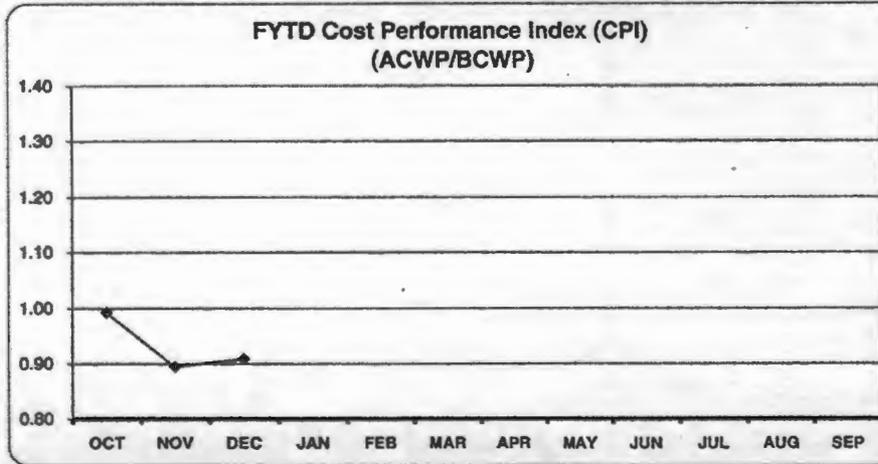
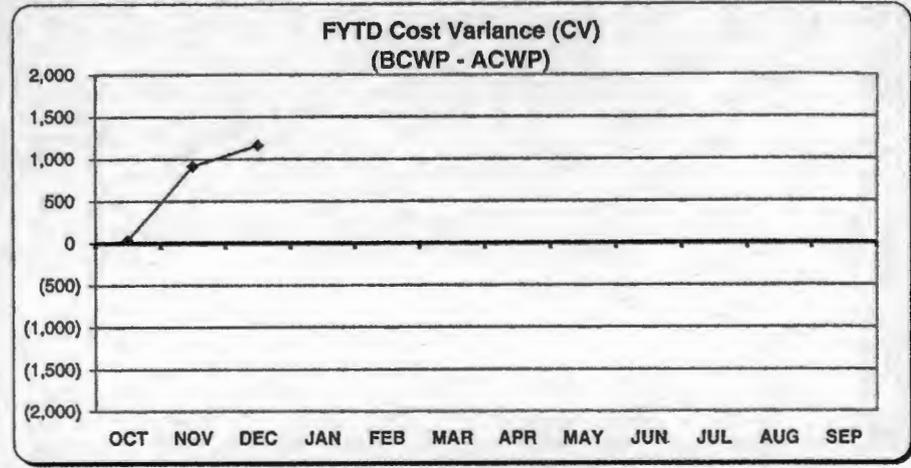
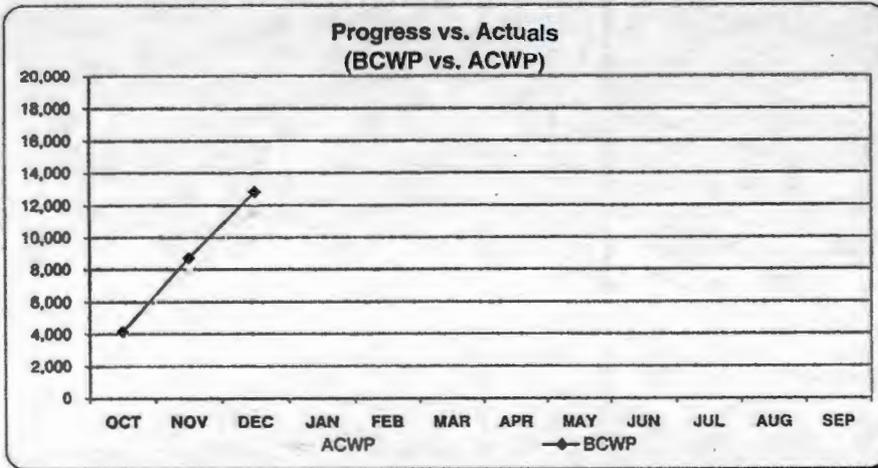


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	3,614	5,314	4,146	5,459	4,343	4,553	5,575	7,004	5,476	4,470	5,039	5,524
DWP (Accum)	3,614	8,928	13,074	18,532	22,875	27,428	33,003	40,007	45,482	49,953	54,992	60,516
<b>CURRENT PERIOD</b>												
BCWS	3,889	5,594	4,296	5,467	4,486	4,749	5,861	7,160	5,688	4,685	5,092	5,153
BCWP	4,170	4,550	4,123	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	3,889	9,483	13,778	19,245	23,731	28,480	34,341	41,501	47,189	51,874	56,967	62,120
BCWP	4,170	8,720	12,843	-	-	-	-	-	-	-	-	-
SV	281	(763)	(936)	-	-	-	-	-	-	-	-	-
SPI	0.93	1.09	1.07	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	755	2,052	1,530	-	-	-	-	-	-	-	-	-

REMEDIAL ACTION AND WASTE DISPOSAL PROJECT

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)

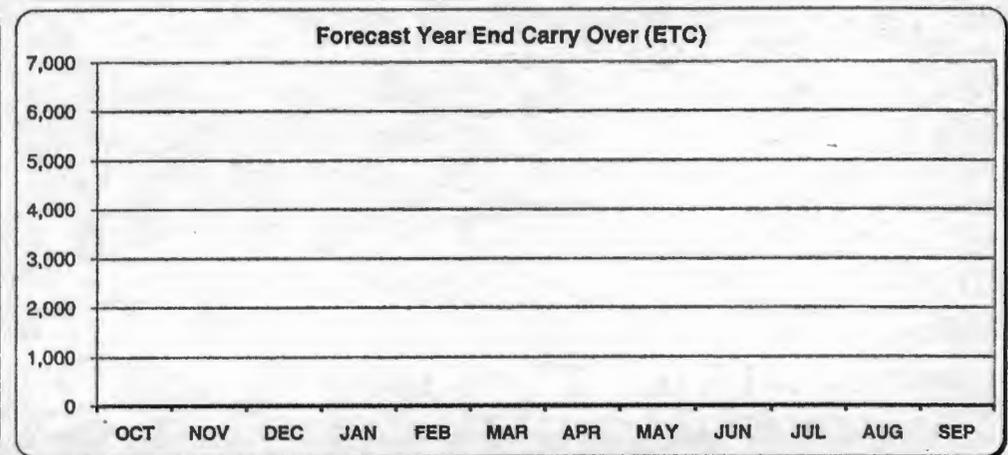
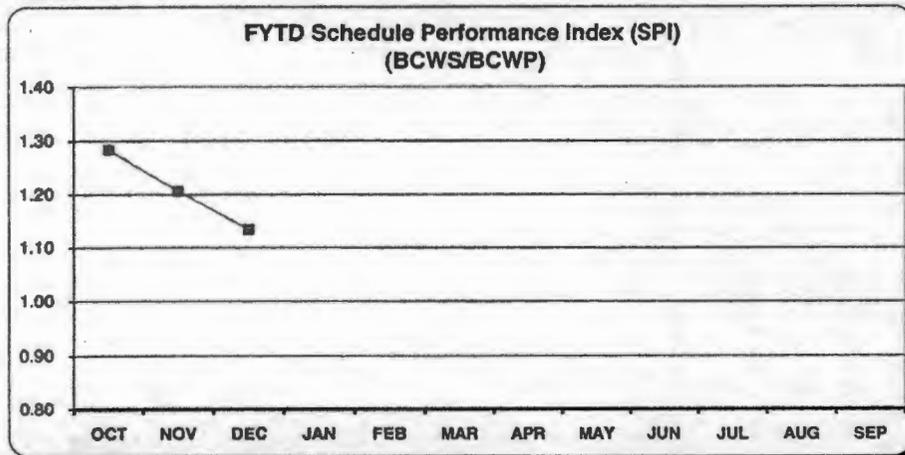
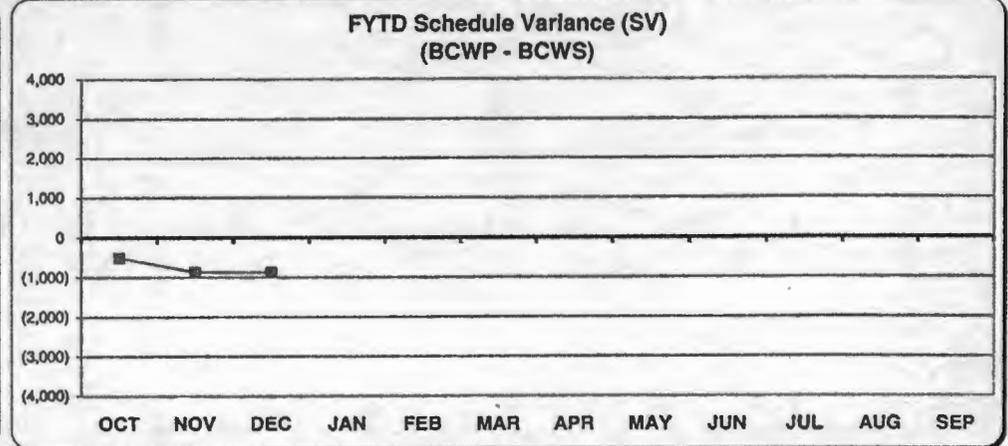
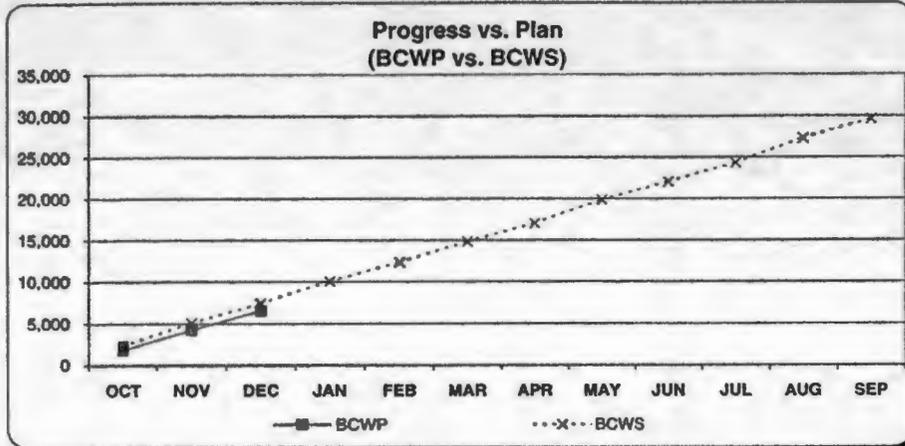


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	4,139	3,668	3,876	-	-	-	-	-	-	-	-	-	-
BCWP	4,170	4,550	4,123	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	4,139	7,807	11,683	-	-	-	-	-	-	-	-	-	-
BCWP	4,170	8,720	12,843	-	-	-	-	-	-	-	-	-	-
CV	31	912	1,160	-	-	-	-	-	-	-	-	-	-
CPI	0.98	0.90	0.91	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	4,139	7,807	11,683	17,403	22,353	27,284	33,242	40,160	46,045	50,895	56,134	60,672	62,202
Yr End Budget Var	(409)	(173)	(82)	-	-	-	-	-	-	-	-	-	1,530

**GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT**

**TPA First Quarter Review**

**SCHEDULE PERFORMANCE (\$'s in 000)**

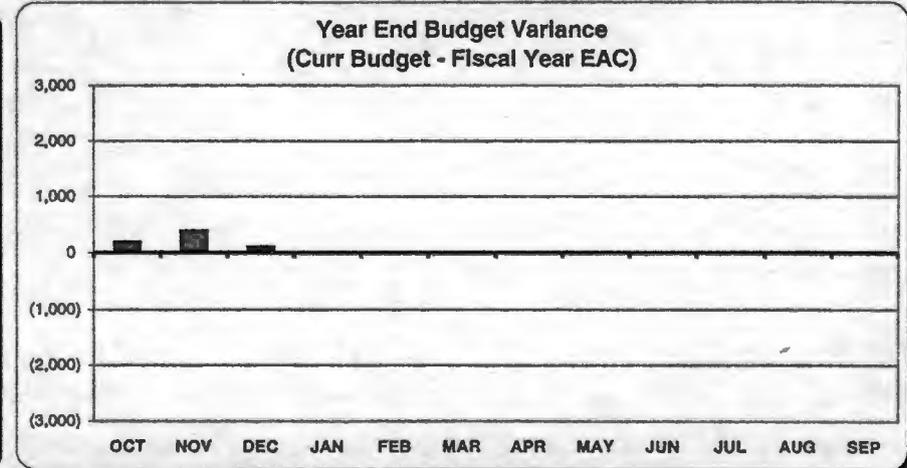
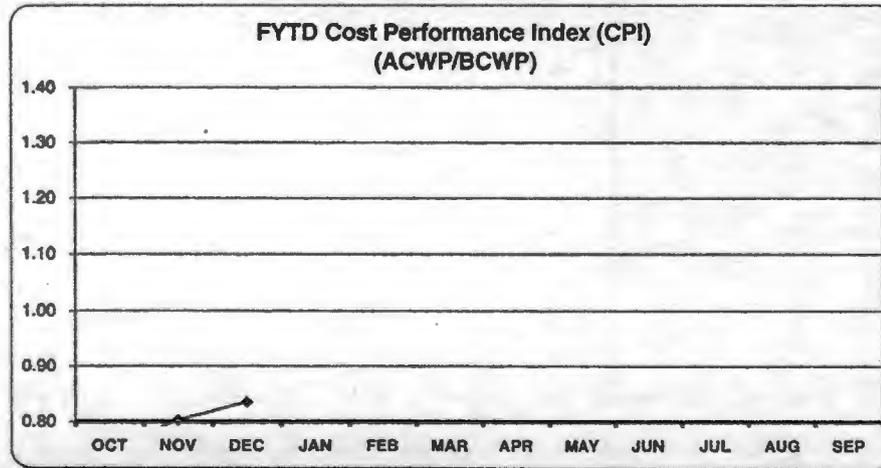
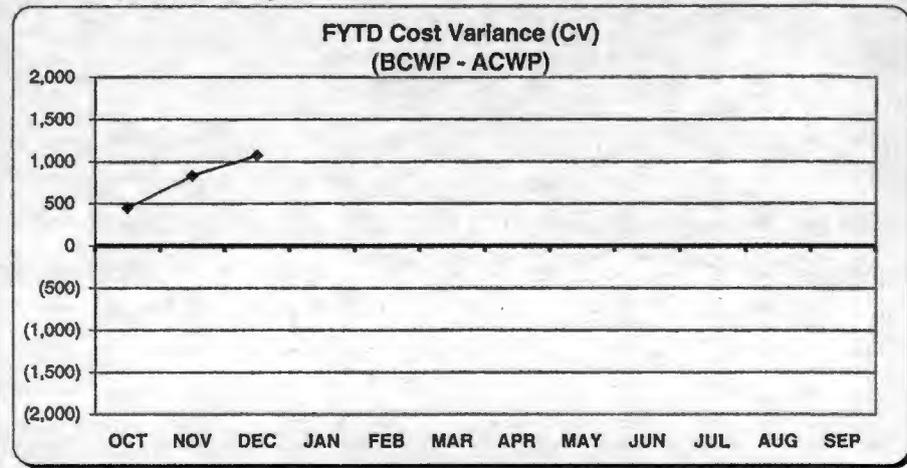
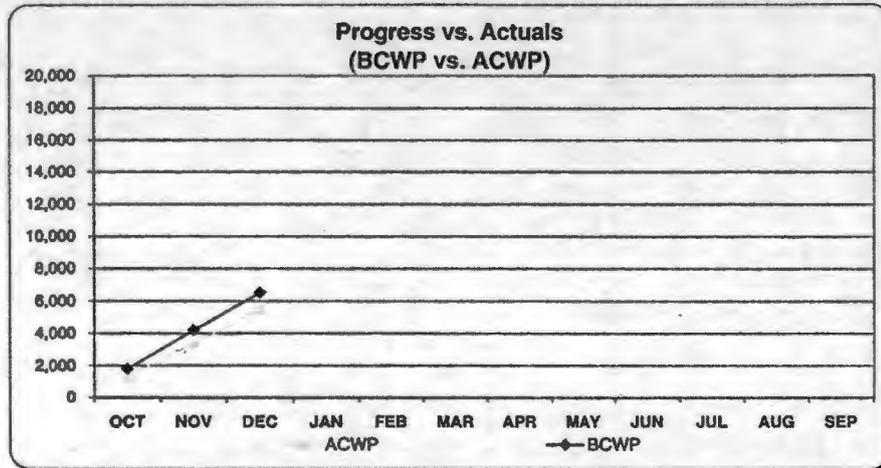


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,703	1,811	1,767	1,779	1,783	1,871	1,963	2,354	1,791	1,660	2,511	2,125
DWP (Accum)	1,703	3,515	5,282	7,061	8,844	10,715	12,678	15,032	16,823	18,483	20,994	23,120
<b>CURRENT PERIOD</b>												
BCWS	2,300	2,770	2,319	2,650	2,308	2,495	2,190	2,807	2,173	2,294	2,997	2,330
BCWP	1,792	2,410	2,312	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	2,300	5,070	7,389	10,039	12,347	14,843	17,033	19,840	22,013	24,307	27,304	29,633
BCWP	1,792	4,203	6,515	-	-	-	-	-	-	-	-	-
SV	(508)	(867)	(874)	-	-	-	-	-	-	-	-	-
SPI	1.28	1.21	1.13	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	-	-	-	-	-	-	-	-	-	-

GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT

TPA First Quarter Review

COST PERFORMANCE (\$'s In 000)

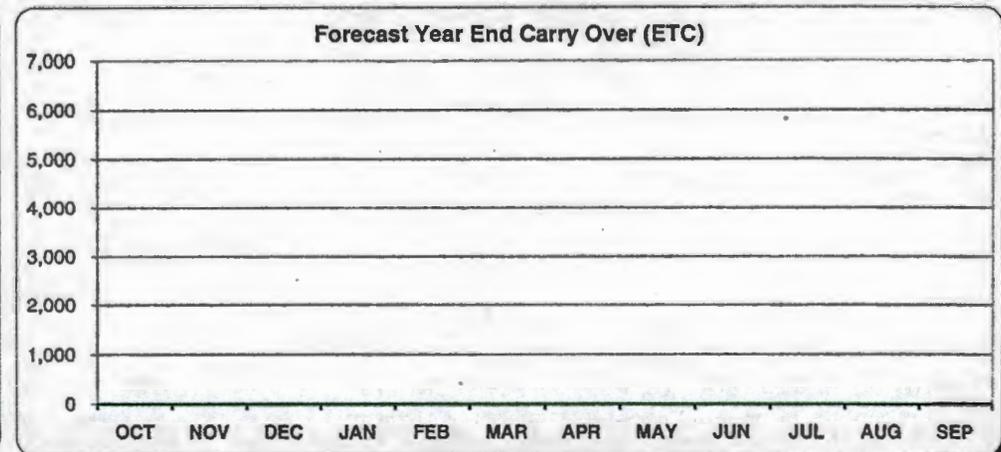
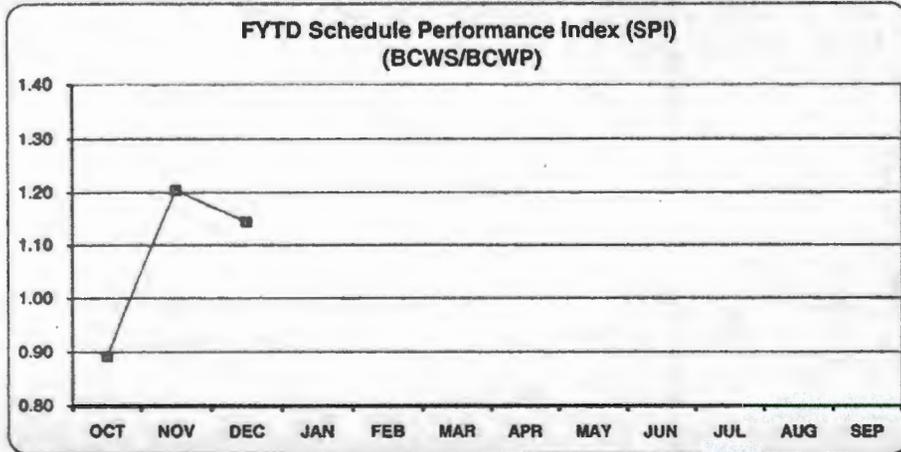
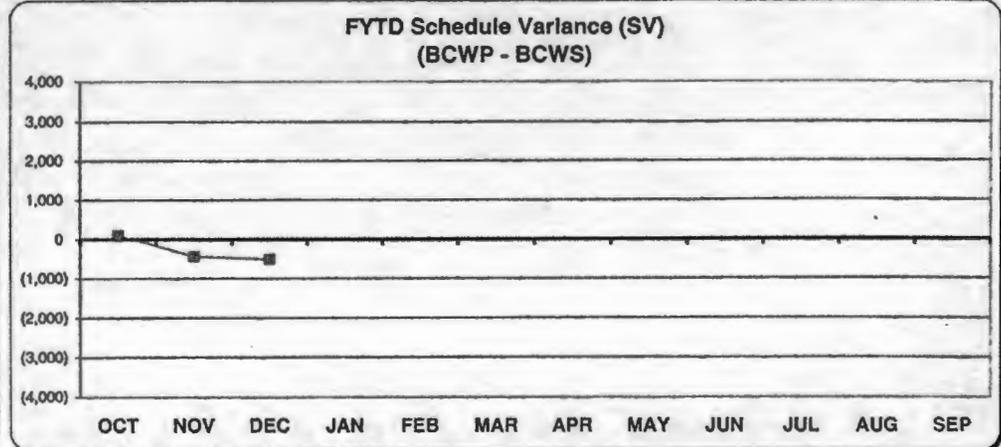
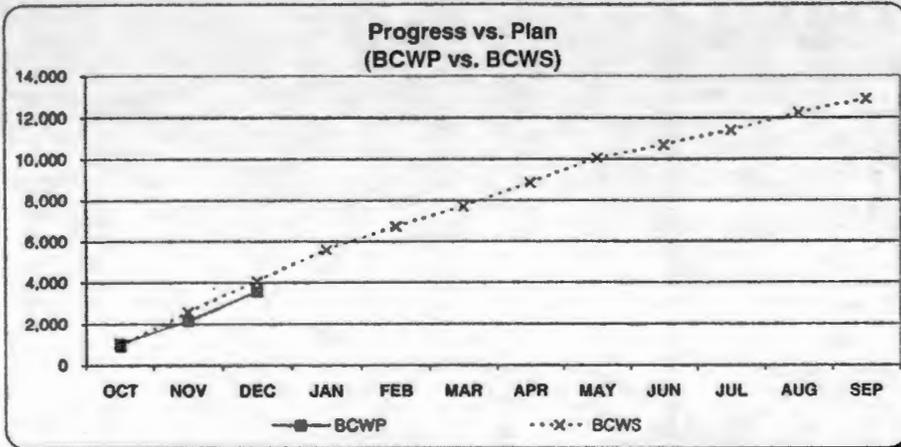


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	1,344	2,029	2,070	-	-	-	-	-	-	-	-	-	-
BCWP	1,792	2,410	2,312	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	1,344	3,374	5,443	-	-	-	-	-	-	-	-	-	-
BCWP	1,792	4,203	6,515	-	-	-	-	-	-	-	-	-	-
CV	448	829	1,072	-	-	-	-	-	-	-	-	-	-
CPI	0.75	0.80	0.84	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	1,344	3,374	5,443	8,429	11,016	13,801	16,219	19,192	21,504	23,814	26,832	29,522	29,522
Yr End Budget Var	193	395	111	-	-	-	-	-	-	-	-	-	-

DECOMMISSIONING PROJECTS

TPA First Quarter Review

SCHEDULE PERFORMANCE (\$'s in 000)

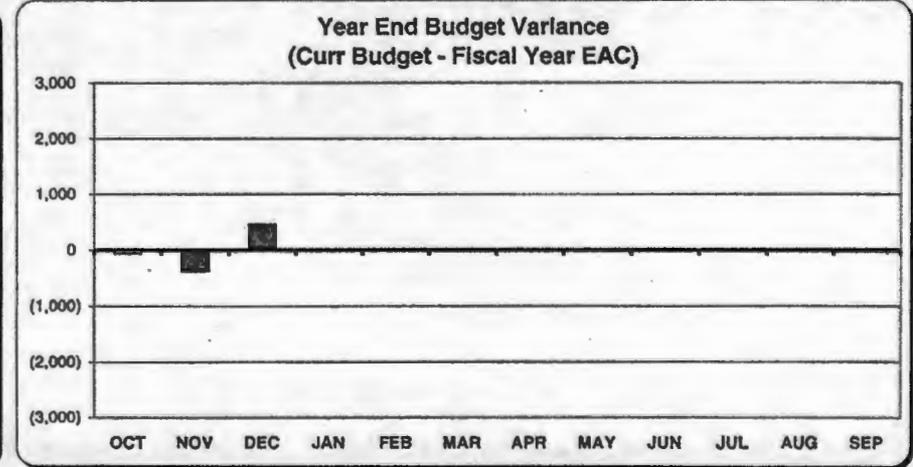
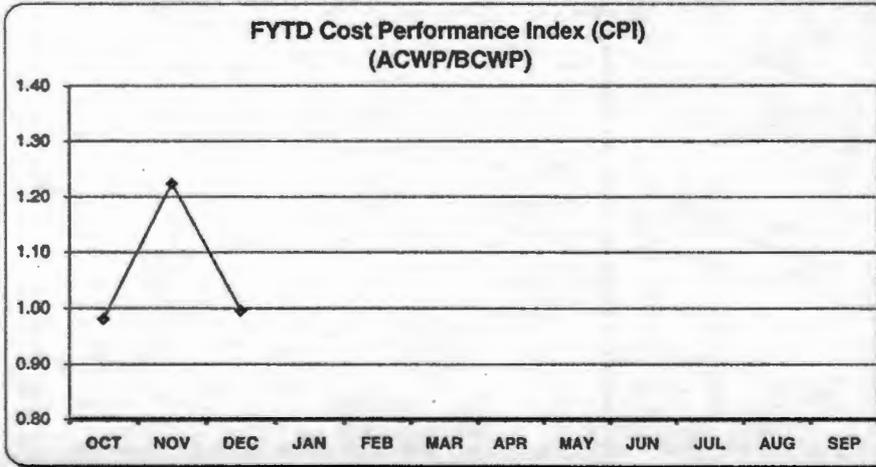
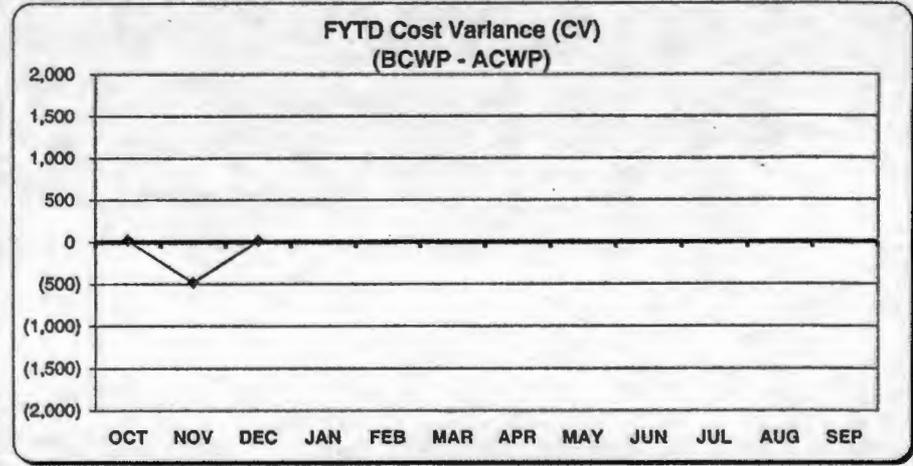
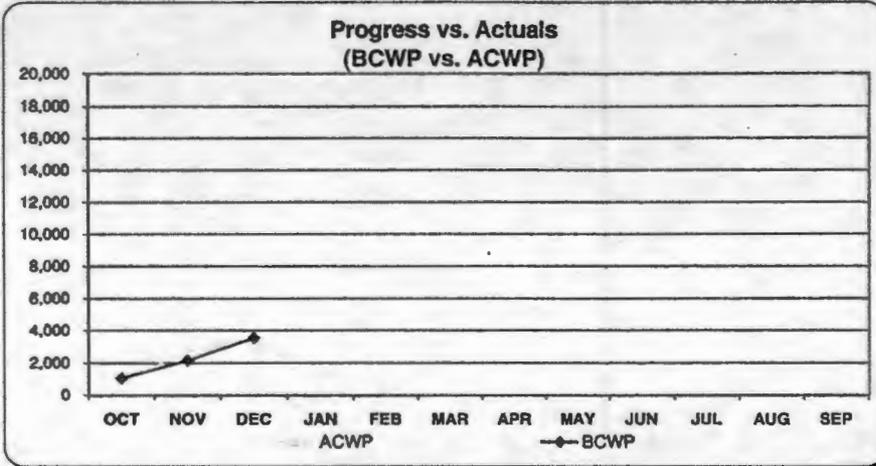


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	311	619	573	636	614	481	600	603	401	514	713	473
DWP (Accum)	311	930	1,503	2,139	2,753	3,234	3,834	4,437	4,838	5,353	6,066	6,539
<b>CURRENT PERIOD</b>												
BCWS	926	1,657	1,484	1,518	1,159	955	1,166	1,193	635	722	815	664
BCWP	1,038	1,107	1,409	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	926	2,582	4,066	5,584	6,744	7,699	8,865	10,057	10,692	11,414	12,229	12,892
BCWP	1,038	2,145	3,554	-	-	-	-	-	-	-	-	-
SV	112	(437)	(512)	-	-	-	-	-	-	-	-	-
SPI	0.89	1.20	1.14	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	-	-	-	-	-	-	-	-	-	-

DECOMMISSIONING PROJECTS

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)

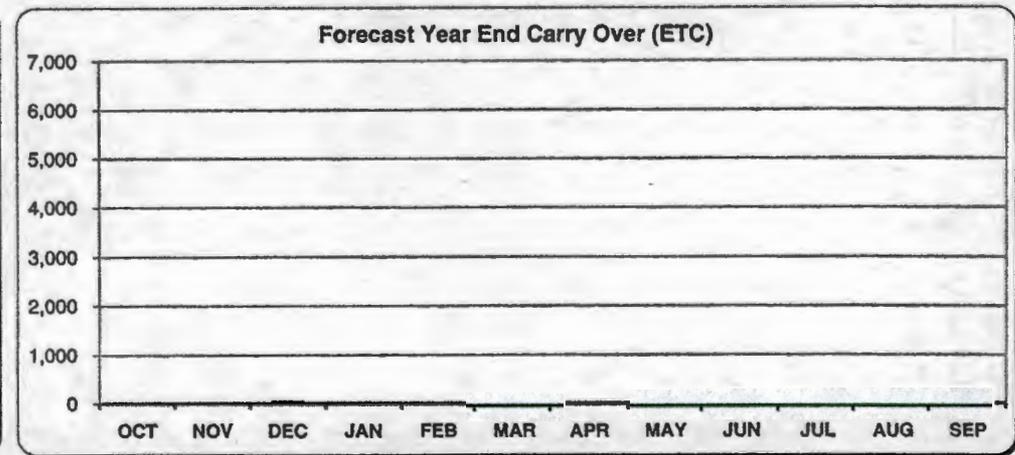
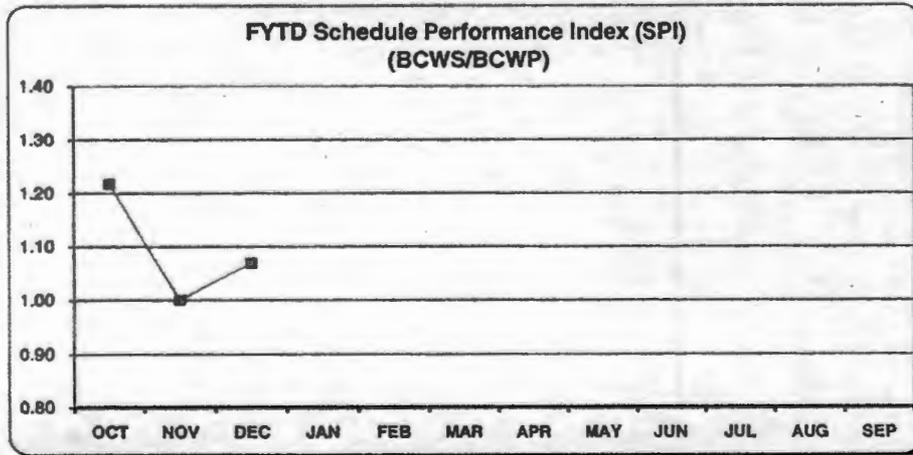
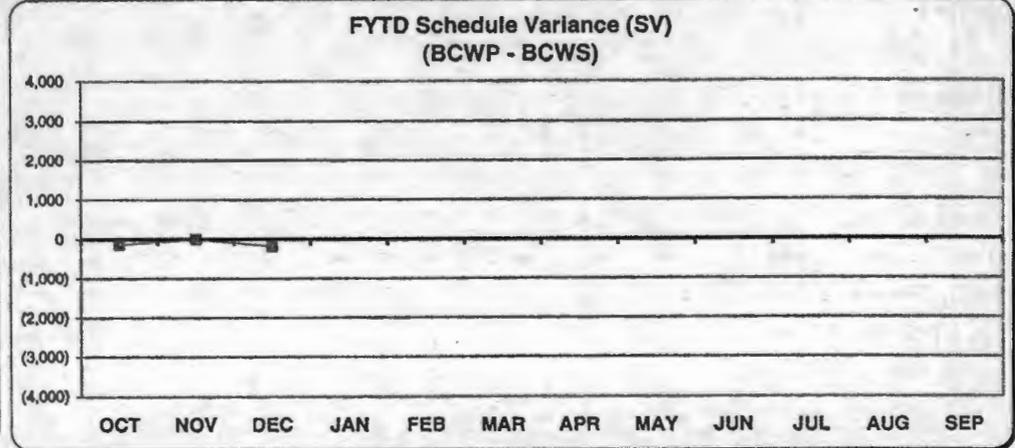
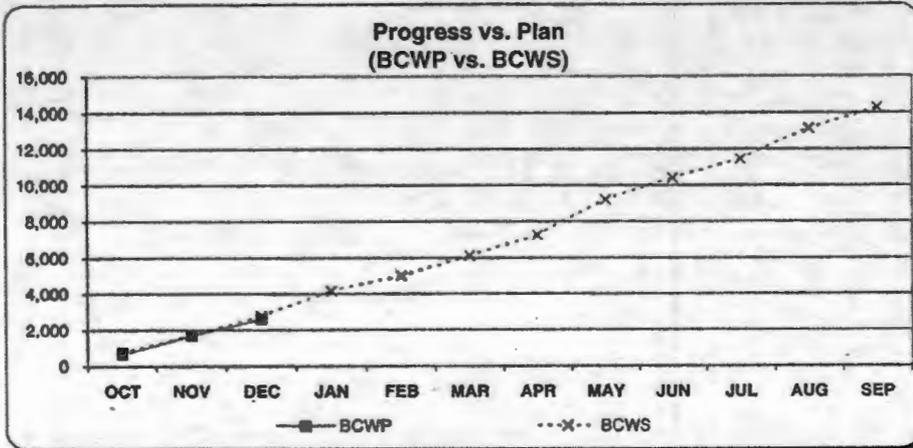


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	1,019	1,607	914	-	-	-	-	-	-	-	-	-	-
BCWP	1,038	1,107	1,409	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	1,019	2,626	3,540	-	-	-	-	-	-	-	-	-	-
BCWP	1,038	2,145	3,554	-	-	-	-	-	-	-	-	-	-
CV	19	(481)	14	-	-	-	-	-	-	-	-	-	-
CPI	0.98	1.22	1.00	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	1,019	2,626	3,540	5,015	6,074	7,310	8,314	9,593	10,385	11,042	11,860	12,434	12,434
Yr End Budget Var	(56)	(371)	459	-	-	-	-	-	-	-	-	-	-

**SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS**

TPA First Quarter Review

**SCHEDULE PERFORMANCE (\$'s In 000)**

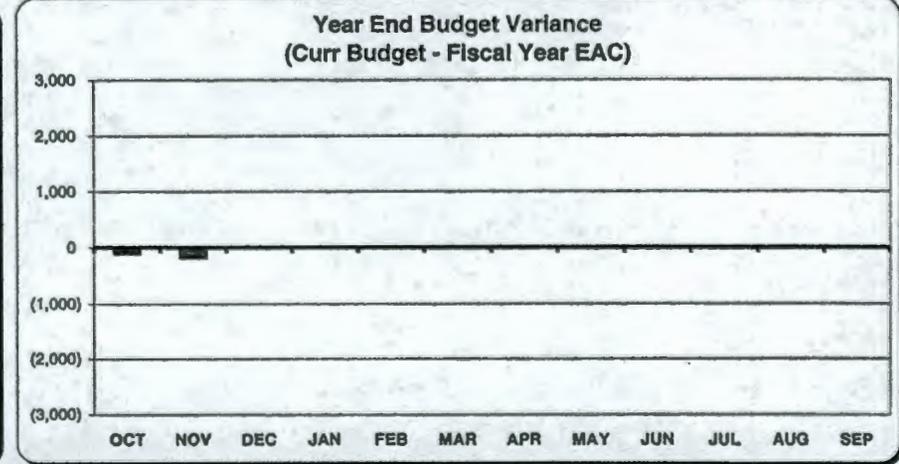
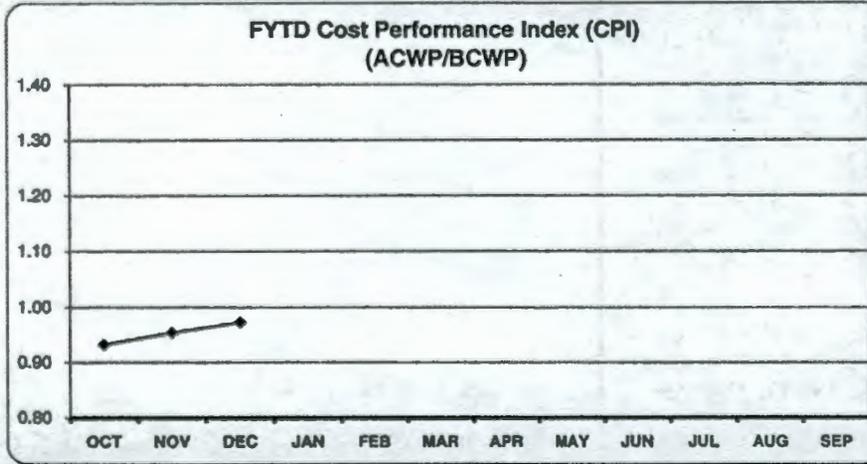
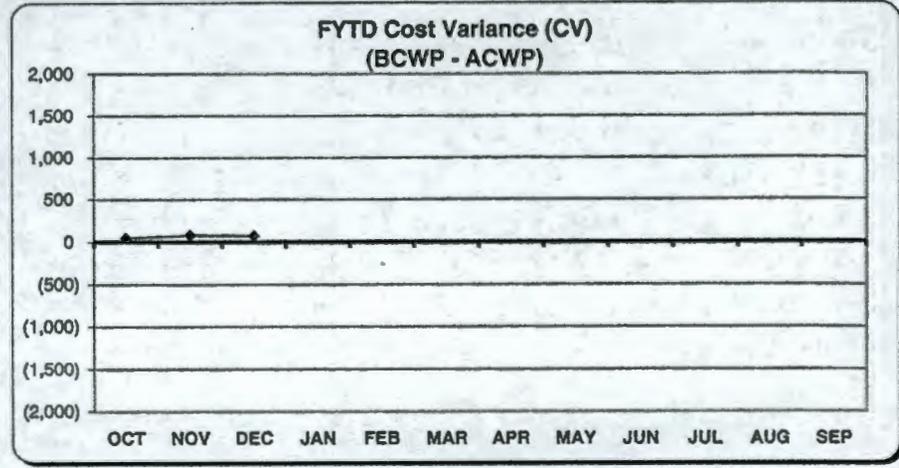
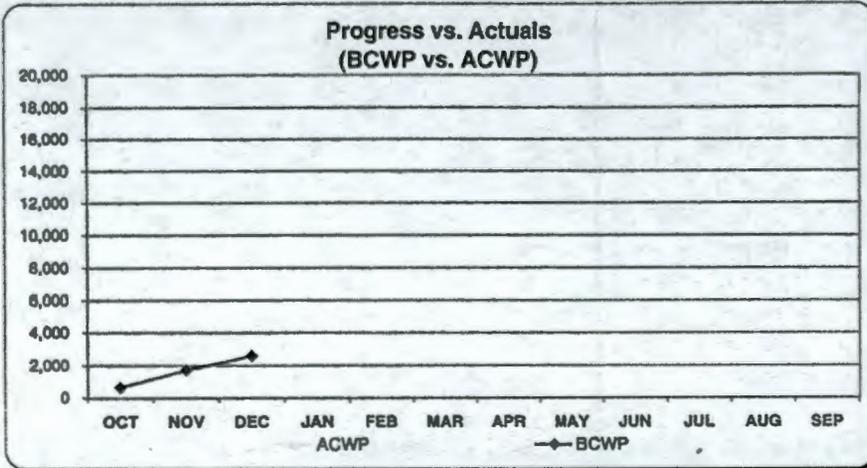


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	655	985	953	1,306	1,009	1,063	1,059	2,070	1,204	1,335	1,208	1,056
DWP (Accum)	655	1,640	2,593	3,899	4,908	5,971	7,030	9,100	10,304	11,639	12,847	13,903
<b>CURRENT PERIOD</b>												
BCWS	765	925	1,081	1,384	848	1,126	1,110	1,965	1,220	1,040	1,687	1,119
BCWP	629	1,060	902	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	765	1,690	2,771	4,155	5,002	6,129	7,239	9,204	10,424	11,464	13,151	14,270
BCWP	629	1,689	2,591	-	-	-	-	-	-	-	-	-
SV	(137)	(1)	(180)	-	-	-	-	-	-	-	-	-
SPI	1.22	1.00	1.07	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	31	-	-	-	-	-	-	-	-	-

**SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS**

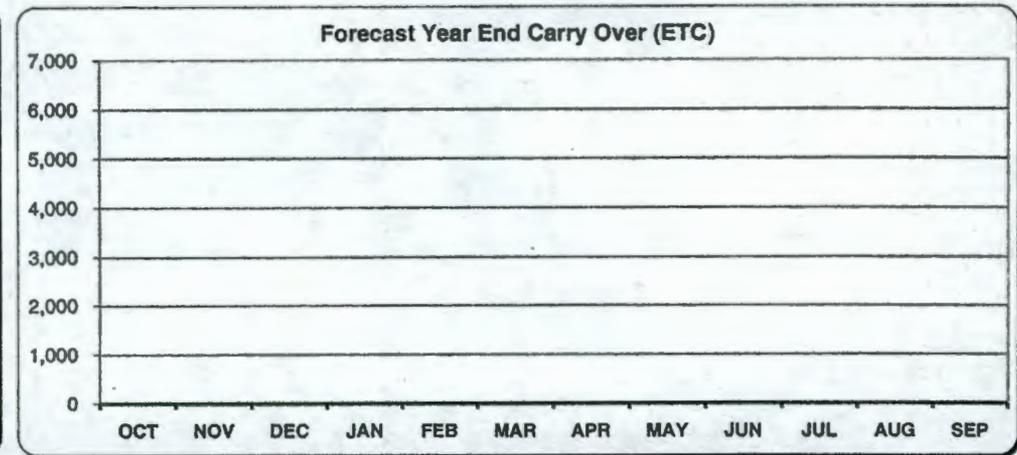
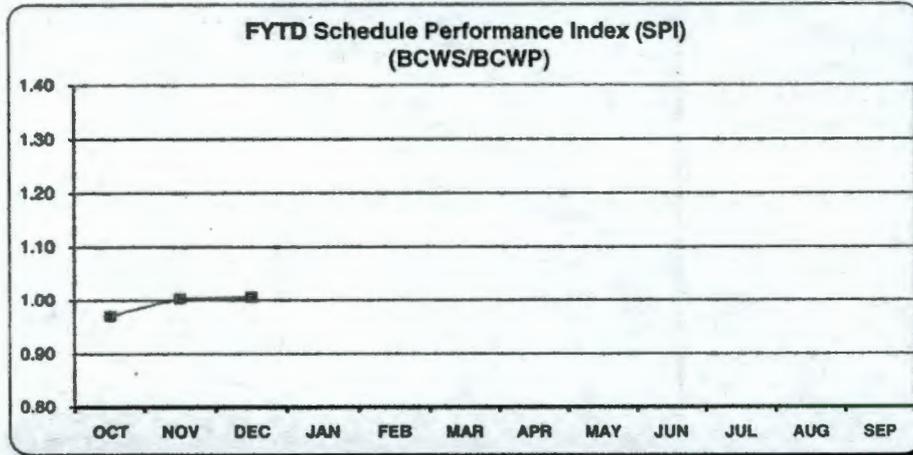
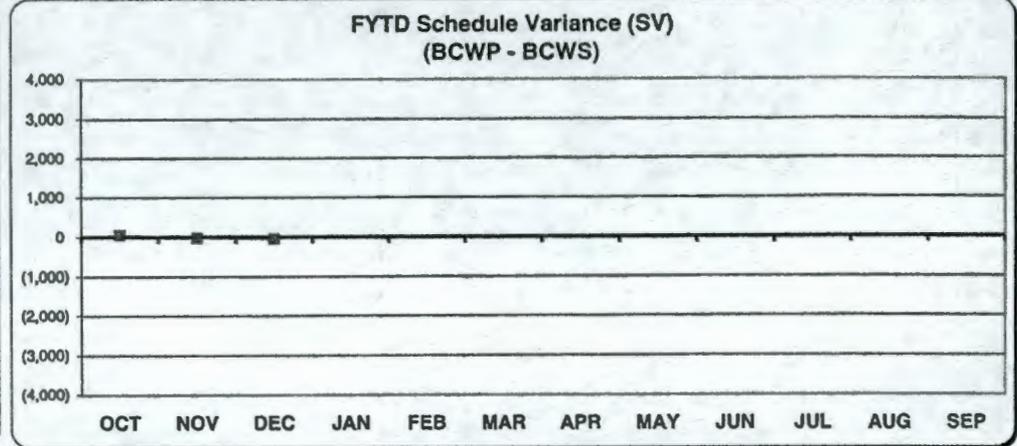
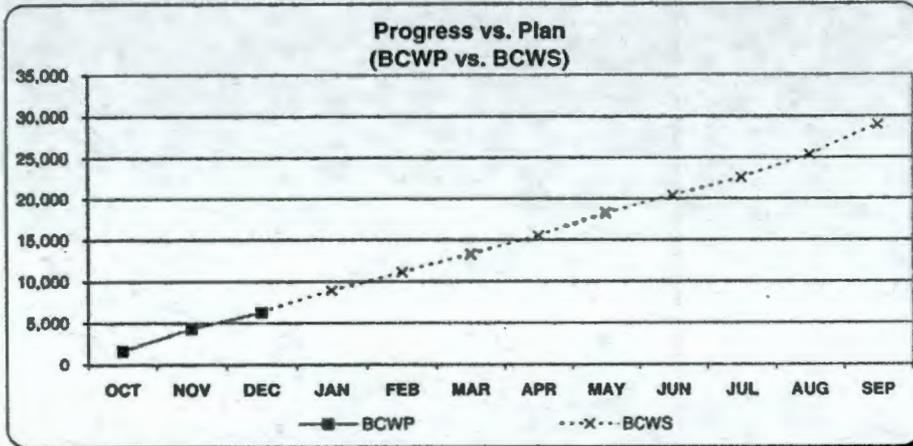
**TPA First Quarter Review**

**COST PERFORMANCE (\$'s in 000)**



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	586	1,026	910	-	-	-	-	-	-	-	-	-	-
BCWP	629	1,060	902	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	586	1,612	2,521	-	-	-	-	-	-	-	-	-	-
BCWP	629	1,689	2,591	-	-	-	-	-	-	-	-	-	-
CV	42	77	69	-	-	-	-	-	-	-	-	-	-
CPI	0.93	0.95	0.97	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	586	1,612	2,521	3,691	4,477	5,632	6,757	8,641	10,024	11,232	13,035	14,253	14,284
Yr End Budget Var	(112)	(189)	(14)	-	-	-	-	-	-	-	-	-	31

SCHEDULE PERFORMANCE (\$'s In 000)

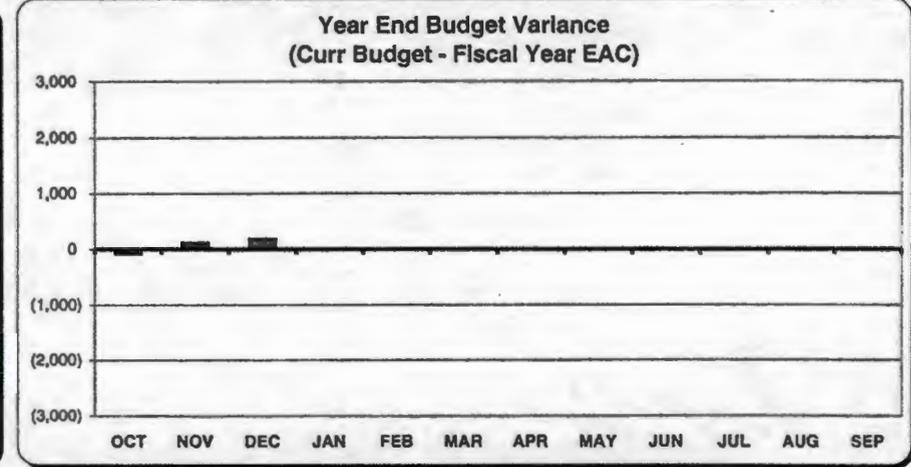
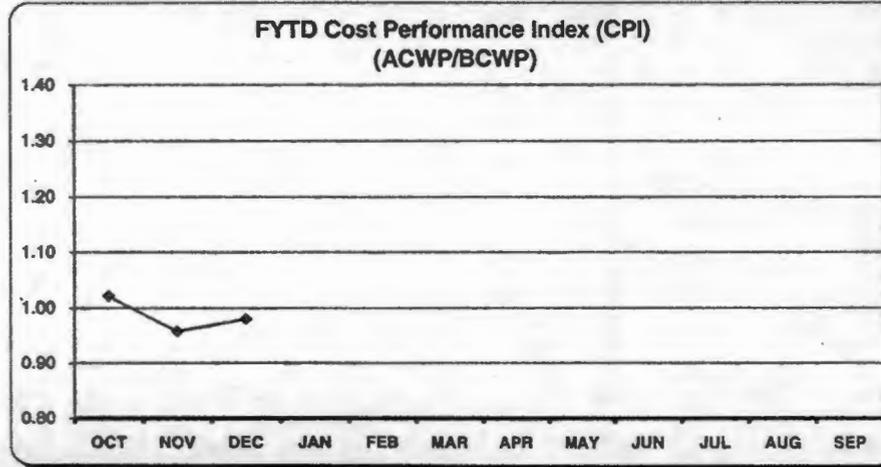
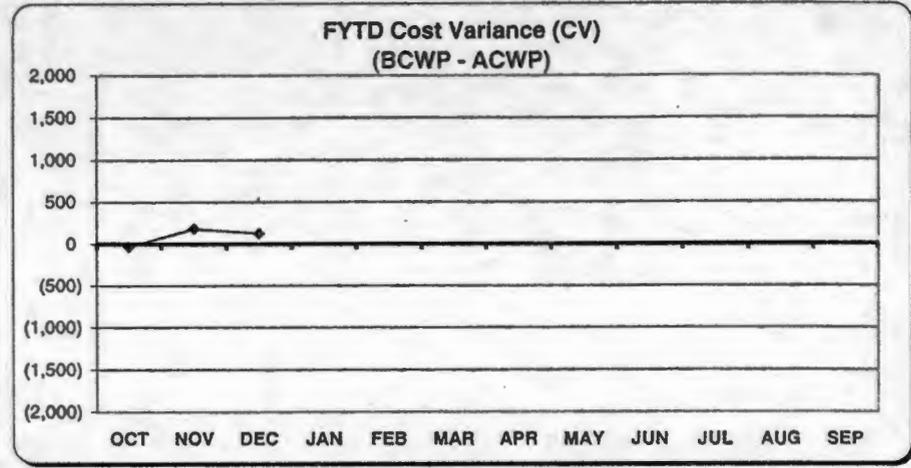
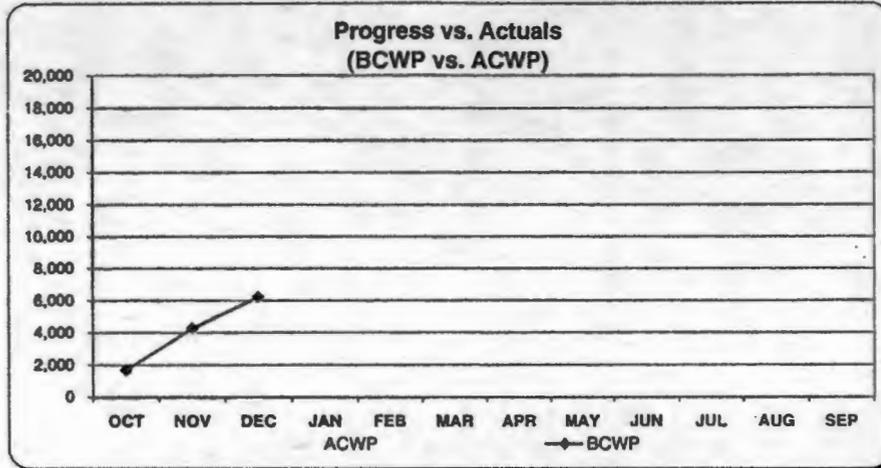


	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	1,446	2,295	1,779	2,354	1,860	1,962	1,974	2,500	1,916	1,916	2,521	4,460
DWP (Accum)	1,446	3,741	5,520	7,873	9,734	11,696	13,670	16,170	18,085	20,001	22,523	26,982
<b>CURRENT PERIOD</b>												
BCWS	1,618	2,683	1,980	2,665	2,170	2,201	2,191	2,757	2,123	2,165	2,787	3,625
BCWP	1,668	2,617	1,957	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>												
BCWS	1,618	4,301	6,282	8,946	11,116	13,317	15,508	18,265	20,388	22,553	25,340	28,966
BCWP	1,668	4,284	6,241	-	-	-	-	-	-	-	-	-
SV	49	(17)	(41)	-	-	-	-	-	-	-	-	-
SPI	0.97	1.00	1.01	-	-	-	-	-	-	-	-	-
Yr End Sch Carry Over	-	-	1	-	-	-	-	-	-	-	-	-

PROGRAM MANAGEMENT AND SUPPORT - ERC

TPA First Quarter Review

COST PERFORMANCE (\$'s in 000)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
<b>CURRENT PERIOD</b>													
ACWP	1,703	2,402	2,015	-	-	-	-	-	-	-	-	-	-
BCWP	1,668	2,617	1,957	-	-	-	-	-	-	-	-	-	-
<b>FISCAL YEAR TO DATE</b>													
ACWP	1,703	4,105	6,120	-	-	-	-	-	-	-	-	-	-
BCWP	1,668	4,284	6,241	-	-	-	-	-	-	-	-	-	-
CV	(36)	179	121	-	-	-	-	-	-	-	-	-	-
CPI	1.02	0.96	0.98	-	-	-	-	-	-	-	-	-	-
EAC (Cumulative)	1,703	4,105	6,120	8,777	11,019	12,989	15,234	18,014	20,160	22,325	25,102	28,770	28,771
Yr End Budget Var	(86)	120	195	-	-	-	-	-	-	-	-	-	1