

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

DEC 5 1995

95-CHD-095

Mr. John T. Conway, Chairman Defense Nuclear Facilities Safety Board 625 Indiana Avenue, N.W., Suite 700 Washington D.C. 20004

Dear Mr. Conway:

TRANSMITTAL OF CHARACTERIZATION DIVISION, SEPTEMBER 1995 MONTHLY REPORT, IN ACCORDANCE WITH THE U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE (RL), IMPLEMENTATION PLAN FOR BOARD RECOMMENDATION 93-5

The enclosed Characterization Division September Monthly Report is being submitted to you to provide information and status of actions associated with the 93-5 Implementation Plan.

Significant Accomplishments:

Westinghouse Hanford Company (WHC) submitted an acceptance test report for an X-ray sample imaging device that measures sample recovery. The development of the X-ray imaging device supports completion of DNFSB Commitment 3.18, "Develop Means for Measuring Complete Sample Recovery". The report will be forwarded to the DNFSB after RL has performed its review and found the document and associated activities acceptable.

RL submitted the required items and requested closure of the following 14 DNFSB 93-5 commitments during the month of September:

Commitment 1.16, Commitment 1.21.1,	"Complete Historical Tank Layering Models" "Ferrocyanide Safety Issue Data Quality Objectives"
Commitment 1.21.2,	"C-103 Vapor DQO Draft Report"
Commitment 1.21.3,	"C-103 Dip Sample DQO"
Commitment 1.21.5,	"Organic Safety Issue DQO Report (PNL)"
Commitment 1.21.7,	"Waste Compatibility DQO Report"
Commitment 1.21.9,	"Vapor Rotary Core DQO Final Draft Report"
Commitment 1.21.10,	"Hydrogen Generating DQO Final Report"
Commitment 1.21.11,	"Pretreatment DQO Draft Report"
Commitment 1.21.12,	"High-Level Waste Immobilization DQO Draft Report"
Commitment 1.21.13,	"Low-Level Waste Immobilization DQO Draft Report"
Commitment 2.1,	"DQO's for All Six Safety Issues"
Commitment 2.2,	"Safety Screening Module DQO Report"

John T. Conway 95-CHD-095

WHC submitted the following letters to RL with the intent to meet DNFSB commitments:

Letter 9555033 "... field procedures and Conduct of Operations Review" DNFSB Commitment 3.02, "Review Characterization Field Procedures/DOE Conduct of Operations."

Letter 9555144 "Documentation of Qualifications for Two Additional Core Sample Crews" DNFSB Commitment 3.10, "Complete Qualification of Two Additional Core Sampling Crews."

The letters will be reviewed by RL and once the associated activities are found to be acceptable the letters will be forwarded to the DNFSB.

If you have any questions, you may contact me at (509) 376-7395 or your staff may contact Mr. Jackson Kinzer, Assistant Manager for Tank Waste Remediation System, at (509) 376-7591.

Sincerely,

Wagoner lahager

CHD:CAB

Enclosure

- cc w/encl:
- R. Guimond, EM-2
- M. A. Hunemuller, EM-30
- K. T. Lang, EM-36
- S. L. Trine, RL DNFSB Liaison
- J. C. Tseng, EM-30
- M. B. Whitaker, EH-9

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CHARACTERIZATION PROJECT BIWEEKLY REPORT FOR THE PERIOD ENDING SEPTEMBER 15, 1995

SIGNIFICANT ACCOMPLISHMENTS

Westinghouse Hanford Company (WHC) letter 9554924 was submitted to the U.S. Department of Energy, Richland Operations Office (RL), on September 14, 1995, transmitting an acceptance test report for an X-ray sample imaging device. The original means for measuring sample recovery was envisioned to be an instrumented sample receiver to replace the existing receiver; however, the alternate concept of using the X-ray imaging device proved to be more successful. This transmittal met Defense Nuclear Facilities Safety Board (DNFSB) commitment 3.18, "Develop Means for Measuring Complete Sample Recovery" of the core sample systems, and WHC milestone T2D-95-153.

The following eight DNFSB 93-5 commitment items, previously submitted to RL, were forwarded to the DNFSB:

Commitment 1.21.1, "Ferrocyanide Safety Issue Data Quality Objective (DQO)" Commitment 1.21.2, "C-103 Vapor DQO Draft Report" Commitment 1.21.3, "C-103 Dip Sample DQO" Commitment 1.21.5, "Organic Safety Issue DQO Report [Pacific Northwest Laboratory (PNL)]" Commitment 1.21.10, "Hydrogen Generating DQO Final Report" Commitment 2.1, DQO's for All Six Safety Issues" Commitment 2.2, Safety Screening Module DQO Report."

PROBLEMS/ISSUES

None to report.

DETAILED WORK ACTIVITIES

TECHNICAL INTEGRATION AND PLANNING (WBS 1.1.1.2.4.1)

None to report.

TECHNICAL DEVELOPMENT AND APPLIED ENGINEERING (WBS 1.1.1.2.4.2)

None to report.

FIELD SAMPLING AND MEASUREMENT (WBS 1.1.1.2.4.3)

Inspection of drill string sections, performed by Characterization Equipment Development engineers on September 7, revealed that the internal diameter of the drill string was below specification requirements. It is believed that this reduced dimension is the reason that the remote latching unit is sticking during drilling operations. Future drill string sections will be inspected prior to use, and followup measures are being taken with the drill string manufacturer.

An engineering change notice is being developed to utilize Diamond Drill rod with o-ring groove. This change will result in a significant cost savings over using a similar rod from Longyear.

An engineering change notice and work package were completed to fabricate four drill string Camlok adapters with a sample port. This change will enable sampling of single-shell flammable gas tanks without using fresh air all the time.

Comments from the 30% design review, as well as from the acceptance test procedure for the prototype cone penetrometer moisture probe, are being dispositioned. The test is scheduled for the week of September 18 at the Science Applications International Corporation facility in San Diego, California.

Push Sampling

Push mode core sampling was completed for the first core in tank 241-S-107 using rotary mode core sampling (RMCS) truck #1 after the grapple hoist problem was resolved.

Rotary Sampling

Rotary core sampling, using truck #2, yielded five pushed segments from tank 241-BY-110, core 109. Recovery was poor. Plans are to pull the remaining segment from the drill string and install a new drill string with a push bit. The unit will be rotated to a new position over the waste within the same riser. Setup and preparations have begun.

Rotary mode truck #3 is located at the RMCS Test Site for training and new bit testing.

Using rotary mode truck #4, six segments of Core 108 were obtained for tank 241-BY-105. Plans are to change the bit from a rotary to a push bit to improve sample recovery, because segment #2 (rotary mode) had less than 13% recovery and segment #3 (push mode with bumping) had 45% recovery. Tank 241-BY-105 has not been classified flammable gas; however, certain requirements and limits were placed on this sampling activity.

The video camera and X-ray imager are both undergoing maintenance.

Auger Sampling

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Auger sampling for the first of three cores in tank 241-SX-108 was completed.

Vapor Sampling

All vapor sampling scheduled for FY 1995 has been completed and preparations are underway for FY 1996.

Vapor sampling of tank 241-U-108 was cancelled after it was determined not to be required based on evaluation by Safety of the existing data.

Setup, work package preparation, and mockup training are in progress for sampling tank 241-C-301, a miscellaneous underground storage tank. Sampling in this tank will be a "first" for this type of tank.

Grab Sampling

Grab sampling was completed for tank 241-AN-101. Due to insufficient supernatant to support a successful grab sample, no samples were obtained from tanks 241-AN-103, AN-105, or AY-102.

ANALYTICAL INTEGRATION (WBS 1.1.1.2.4.4)

222-S Laboratory

The following samples were extruded at the Laboratory:

Date		Туре	<u>Core</u>	<u>Riser #</u>	<u>Sample #</u>	Qty Recovered Solid/Liquid
9-01-95	241-BY-110	Rotary	107/5	7	95-192	199.6g/
9-01-95	241-BY-110	Rotary	107/6	7	95-193	353.9g/
9-01-95	241-BY-110	Rotary	107/7	7	95-194	346.8g/
9-05-95	241-BY-110	Rotary	107/8	7	95-195	266.4g/
9-05-95	241-BY-110	Rotary	107/9	7	95-196	460.5g/
9-06-95	241-BY-110	Rotary	101/6A	7	95-147A	130.0g/
9-08-95	241-BY-110	Rotary	101/7	7	95-148	437.8g/
9-08-95	241-BY-110	Rotary	101/8	7	95-149	419.5g/
9-08-95	241-BY-110	Rotary	101/9	7	95-150	523.2g/
9-11-95	241-BY-105	Rotary	108/1	12A	95-197	56.2g/123.0g
9-11-95	241-BY-105	Rotary	108/1A	12A	95-197A	51.5g/50.8g
9-11-95	241-BY-105	Rotary	108/1B	12A	95~197B	72.1g/
	241-BY-105	Rotary	108/1C	12A	95-197C	No sample

Laboratory Reports completed:

Tank_#	Report <u>(Davs)</u>	Scheduled <u>Due Date</u>	Completion Date	<u>Performance</u>
241-BX-103	90	08/39/95	08/30/95	On schedule

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WHC-SD-WM-DP-135, Rev. 1, 90-Day Safety Screen Results and Final Report for Tank 241-BX-103, Push Mode, Cores 86 and 87.

DATA EVALUATION AND REPORTING (WBS 1.1.1.2.4.5)

None to report.

Attachment 2 to 9453193.31

DNFSB 93-5 COMMITMENTS STATUS, Pages 1-3 As of September 15, 1995

Please contact Larry Pennington on (509) 376-1863, if you have any questions.

DNFSB 93-5 COMMITMENTS STATUS

Number	Description	<u>Due Date</u>	<u>Submitted</u> to DOE-RL	<u>Submitted</u> to DNFSB
1.01	Enhance WHC Characterization Program	28Feb94	28Feb94	27Jun94
1.02	Management Staff Reduce Management Layers in WHC TWRS	31Mar94	24Mar94	30Jun94
1.02	Improve RL Oversight	31May94	31May94	31May94
1.04	Plan to Improve Char. Prog. Tech. Staff	30Apr94	29Apr94	29Apr94
2	Competencies			
1.05	Implement Plan to Improve Tech Staff Competencies	31May95		
1.06	Define Resp of Key Characterization Managers	31Mar94	31Mar94	12Ju194
1.07	Streamline DQO Process	31Jan94	31Dec93	26May94
1.08	Issue TWRS Characterization Quality Assurance Plan	28Feb94	28Feb94	26May94
1.09	Plan for Blind Samples	31May94	24May94	01Jun94
1.10.41	Issue Quarterly Progress Reports	30Apr94	03May94	03May94
1.10.42	Issue Quarterly Progress Reports	30Ju194	25Ju194	25Ju194
1.10.43	Issue Quarterly Progress Reports	300ct94	200ct94	200ct94
1.10.44	Issue Quarterly Progress Reports	31Jan95	20Jan95	20Jan95
1.10.51	Issue Quarterly Progress Reports	30Apr95	21Apr95	10May95
1.10.52	Issue Quarterly Progress Reports	31Ju195	25Ju195	08Aug95
1.10.53	Issue Quarterly Progress Reports	200ct95		
1.10.54	Issue Quarterly Progress Reports	19Jan96		
1.10.61	Issue Quarterly Progress Reports	19Apr96		
1.10.62	Issue Quarterly Progress Reports	19Ju196		
1.10.63	Issue Quarterly Progress Reports	180ct96		
1.11	Field Schedule for Sampling All Activities FY95 & 96	30Jun94	30Sep94	
1.12	Management Staff Complete System Eng Training	31May94	15Feb94	25May94
1.13	Charact. Functions/Requirements in Functional Analysis	31Jan94	28Apr94	01Jun94
1.14	Charact. Part of Initial Systems Eng Analysis Results	30Jun94	30Jun94	30Jun94
1.15	Integrate Vapor Sample Prog into Charact. Program	310ct94	03Nov94	03Dec94
1.16	Complete Historical Tank Layering Models	30Sep94	18May95	
1.17	Historical Tank Content Est Reports NE/SW	30Jun94	29Jun94	30Jun94
1.18	Historical Tank Content Est Reports NW/SE	31Mar95	30Ju195	24Aug95
1.19	Develop Statistical Tools for Samples Needed	30Dec94	29Dec94	08Aug95
1.20	TWRS Risk Acceptance Criteria	31Aug94	19May95	
1.21.01	Ferrocyanide Safety Issue DQO	15Dec93	01May95	12Sep95
1.21.02	C-103 Vapor DQO Draft Report	31Jan94	25Mar94	12Sep95
1.21.03	C-103 Dip Sample DQO	16Dec94	25Mar94	12Sep95
1.21.04	C-106 High Heat DQO Final Report	20Dec94	19Jan94	12Sep95
1.21.05	Organic Safety Issue DQO Report (PNL)	31Jan94	01May95	12Sep95
1.21.06	Safety Screening Module DQO	31Jan94	01May95	
1.21.07	Waste Compatibility DQO Report	28Feb94	01May95	
1.21.08	In-tank Generic Vapor DQO Final	03Mar94	01May95	
1.21.09	Vapor Rotary Core DQO Final Draft Report	20Jan94		

DNFSB 93-5 COMMITMENTS STATUS

As of September 15, 1995

1.21.10Hydrogen Generating DQO Final Report29Apr9401May951.21.12HUW Immobilization DQO Draft Report22Aug9423Jun951.21.12HUW Immobilization DQO Draft Report21Sep9429Jun951.21.12HUW Immobilization DQO Draft Report21Sep9429Jun951.22Update FY94 Field Sched to Incorp New Tech.28Feb9408Feb94Approach12Sep1429Jun9527Jun941.23Identify 'Bounding Tanks' for Disposal30Nov9429Jun952.01DQOs for all Six Safety Issues29Apr9401May9512Sep952.02Safety Screening Module DQO Report31Jan9401May9512Sep952.03Complete Sampling & Analysis of All Watch List31Oct9531Mar9430Mov9315Nov933.01Initiate Const. of 2nd & 3rd Rotary Core30Nov9301Nov9315Nov933.02Review Char. Field Proc's/DOE Conduct of Ops31Jan9430Jun943.03Complete Qualif. of 1st Push Mode Crew28Feb9424Feb9430Jun943.04Redeploy Push Mode Core Sampling31Mar9430Mar9430Jun943.06Restore Rotary Mode Sampling (TPA)31Mar9430Mar9430Jun943.04Detailed Plans for Acquiring/Training Add'130Apr9524Apr9523Jun953.10Qual of 2 Additional Crews/Push & Rotary30Jun9430Jun943.11Additional Rotary Mode Core Systems30Sep9430Jun943.12Hire/Train/Qualify 4 Add'1 Rotary Mode Crew31Aar9530Jun94 <th><u>Number</u></th> <th>Description</th> <th><u>Due Date</u></th> <th><u>Submitted</u> to DOE-RL</th> <th><u>Submitted</u> to_DNFSB</th>	<u>Number</u>	Description	<u>Due Date</u>	<u>Submitted</u> to DOE-RL	<u>Submitted</u> to_DNFSB
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Page 2

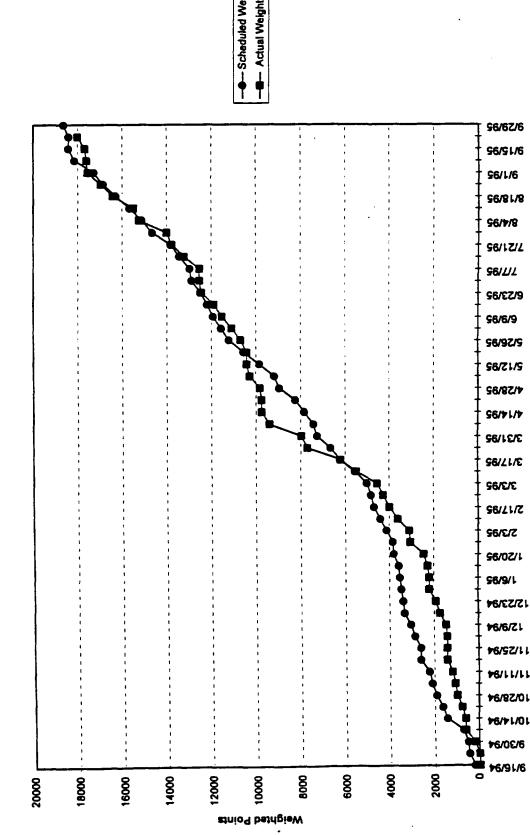
DNFSB 93-5 COMMITMENTS STATUS

As of September 15, 1995

<u>Number</u>	Description	<u>Due Date</u>	<u>Submitted</u> to DOE-RL	<u>Submitted</u> to DNFSB
5.07	Develop & Implement Training for Laboratory Staff	31Aug94	30Jun94	13Ju194
5.08	Procure & Receive 2 PAS-1 Casks	30Sep94	18Aug94	25Aug94
5.09	Plan to Upgrade INEL Lab	31Jan94	08Feb94	28Jun94
5.10	Plan to Upgrade LANL Lab	29Mar94	28Mar94	30Jun94
5.11	Develop Min/Max Lab Capacity Strategy	28Feb94	28Feb94	30Jun94
5.12	Upgrade INEL Lab to Ready to Serve Mode	310ct94	310ct 94	04Nov94
5.13	Upgrade LANL Lab to Ready To Serve Mode	28Feb95	06Feb95	10Apr95
5.14	Two PAS-1 Casks will be ready for use Jan. 1995	31Jan95		·
6.01	Prepare a Customer Needs Analysis (data)	30Apr94	02May94	23Jun94
6.02	Issue a Data Mgmt Improvement Plan	31May94	01May94	26May94
6.03	Initial On-Line Capability for LABCORE-1	31Jan94	31Jan94	23Jun94
6.04	Demonstrate Off-Site Access to Tank Charact. Database	31Jan94	28Jan94	12Ju194
6.05	Complete data Loading of 20 Tanks into Database	30Sep94	30Sep94	250ct94
6.06 7.01 7.02	Evaluate 12 Validated Data Reports for Safety Formally Submit Changes to Commitments Address Changes to Milestones in Quarterly	31Jan94	25Apr94	30Jun94

FIELD SAMPLING CHART, Page 1 of 1, As of September 18, 1995

This chart is an Excel, version 5.0 file. If you want a copy of Attachment 3, please contact Patsy Culver on (509) 373-3002.





Dates

-- Scheduled Weighted Total Actual Weighted Total

FY95 SAMPLING SCHEDULE

Attachment 4 to 9453193.31

SAMPLING STATUS SUMMARY, Page 1 of 1, As of September 15, 1995

Characterization Program Tank Sampling Status Summary

October 1, 1994 to September 15, 1995

	Tanks Scheduled/Completed	Samples Scheduled/Completed
Auger	22/22	46/44
Push	13/13	29/27
Rotary	1.5/1.5	9/9
Vapor	40/40	40/40
Grab	31/31	31/31

Notes:

Tank samples are counted as follows: Rotary, Push, and Auger 1 sample per riser/ average 2 risers per tank. Grab and Vapor 1 sample per tank

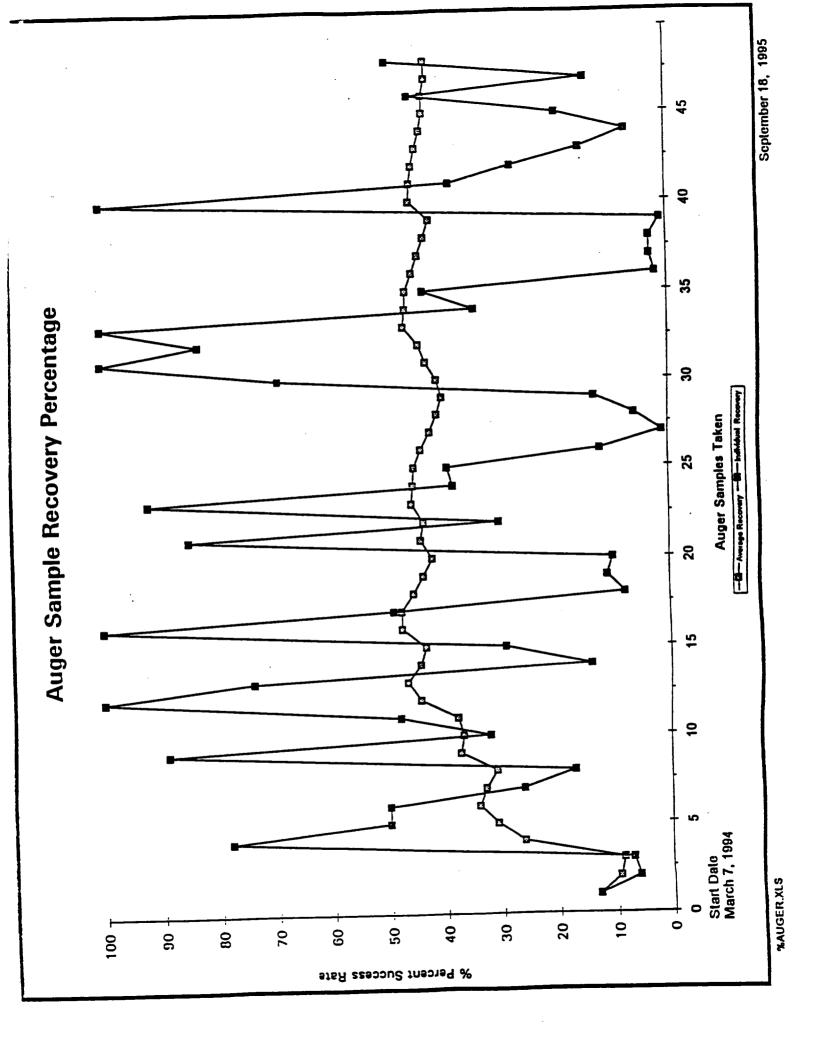
Grab and Vapor 1 sample per tank

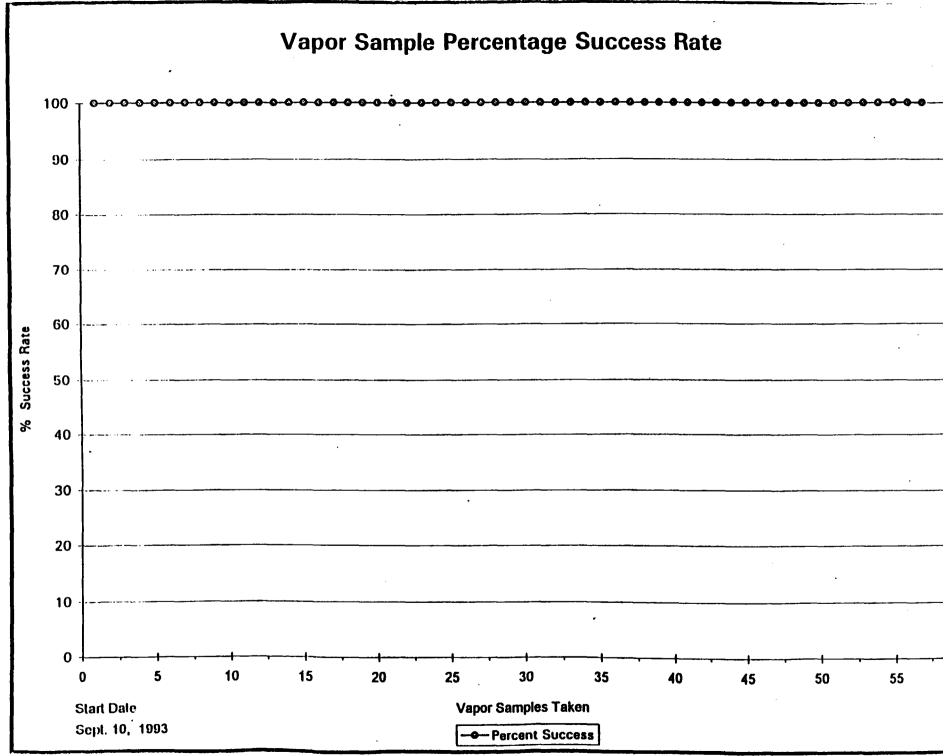
Rev 4.4 schedule is approved. All rotary cores from BY-108 and 110 are being counted in both scheduled and completed columns.

Attachment 5 to 9453193.31

SAMPLE RECOVERY CHARTS, Pages 1-5, As of September 18, 1995

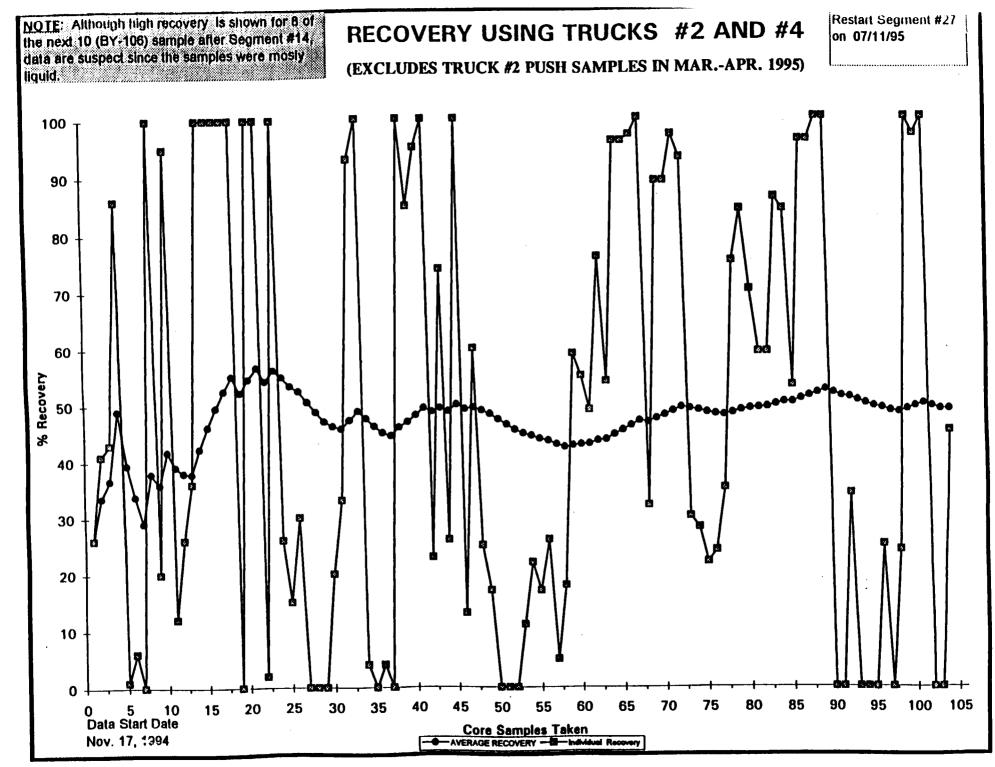
These charts are Excel, version 5.0 files. If you want a copy of Attachment 5, please contact Patsy Culver on (509) 373-3002.





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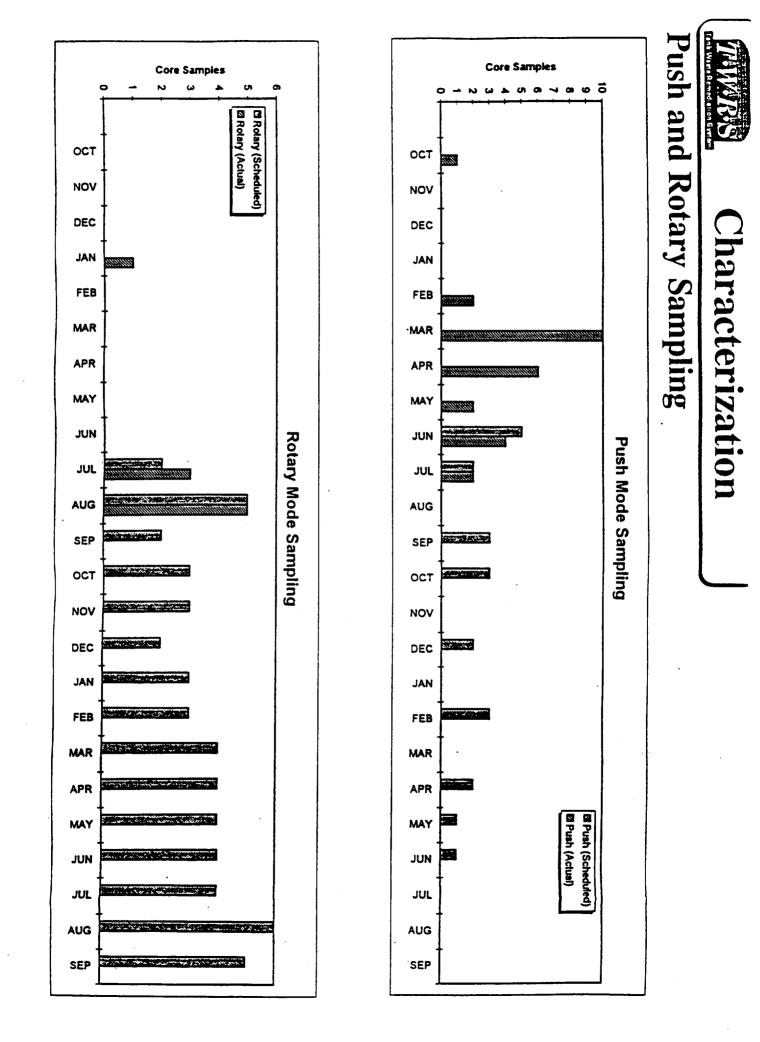
September 18, 199

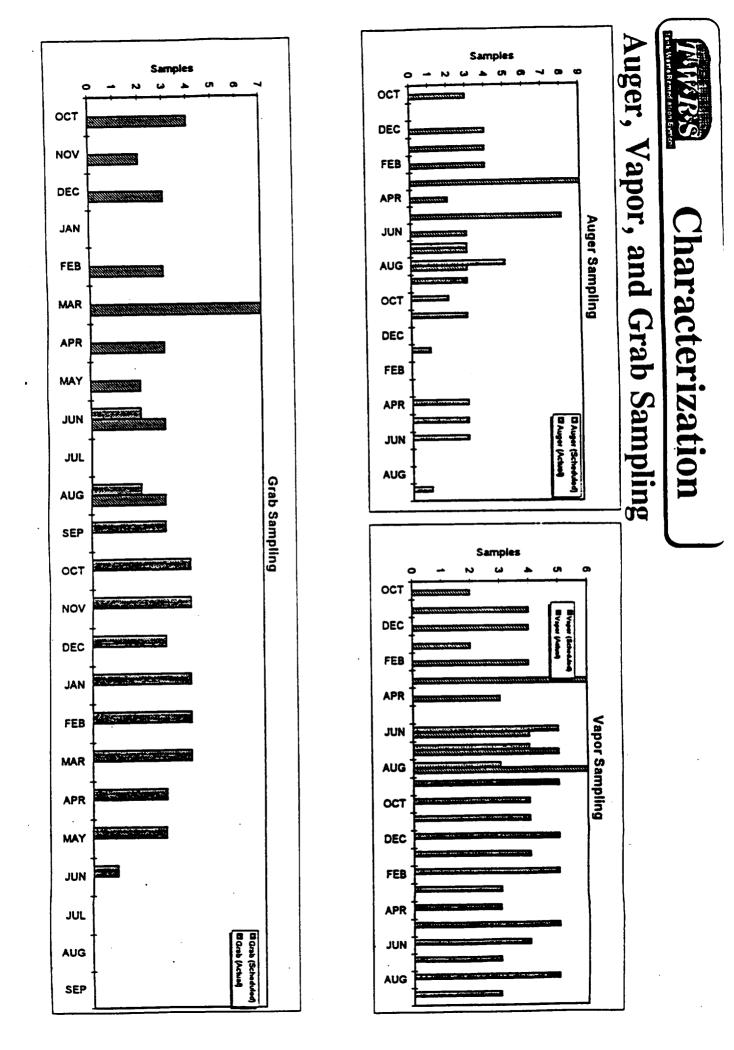


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CHARACTERIZATION PROJECT PERFORMANCE INDICATORS AUGUST 1995 Pages 1-12

These charts are Excel, version 5.0 files. If you want a copy of Attachment 6, please contact Patsy Culver on (509) 373-3002.



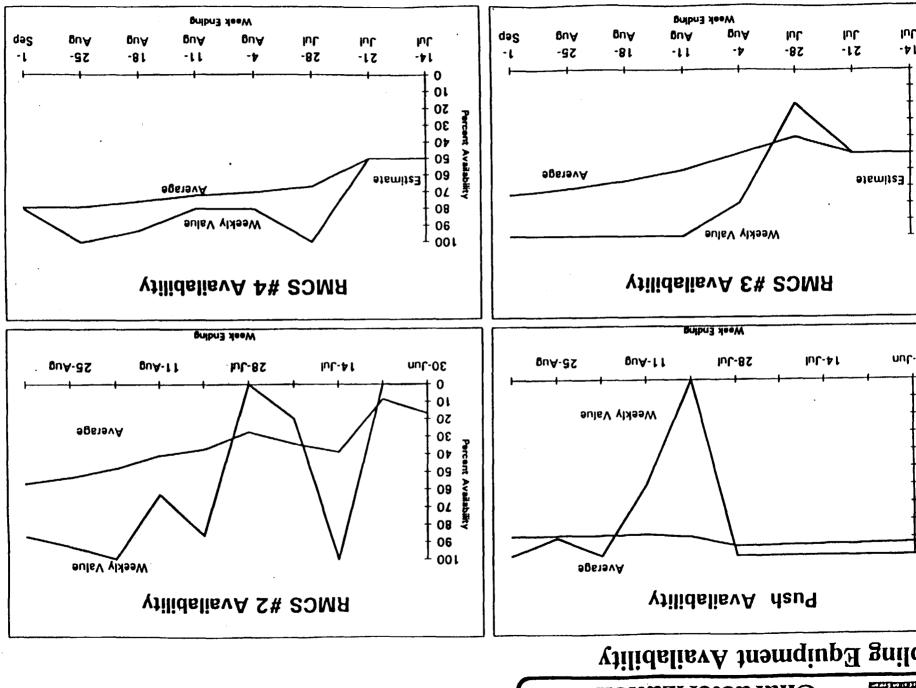


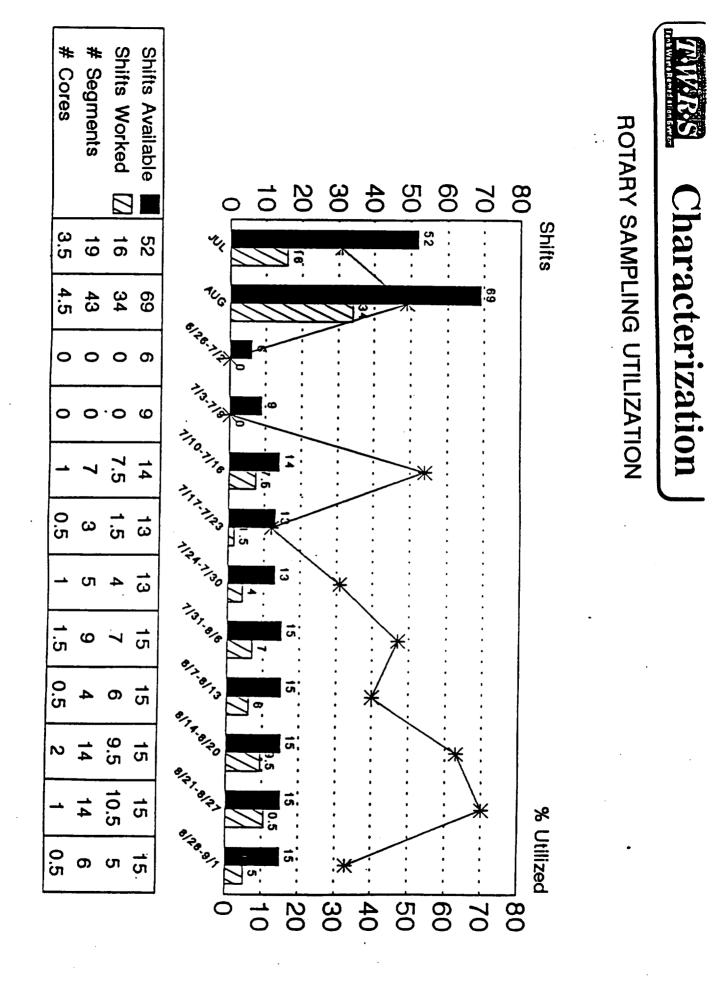
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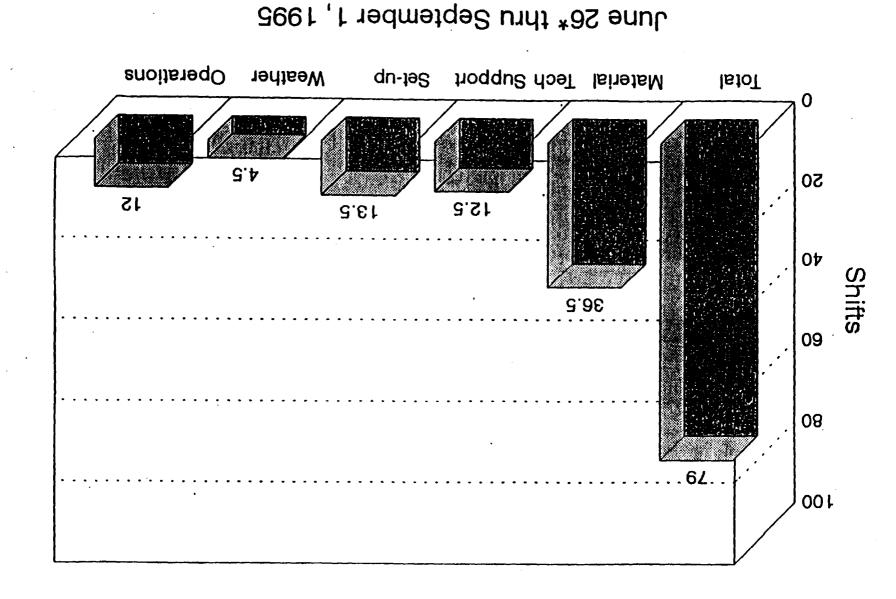




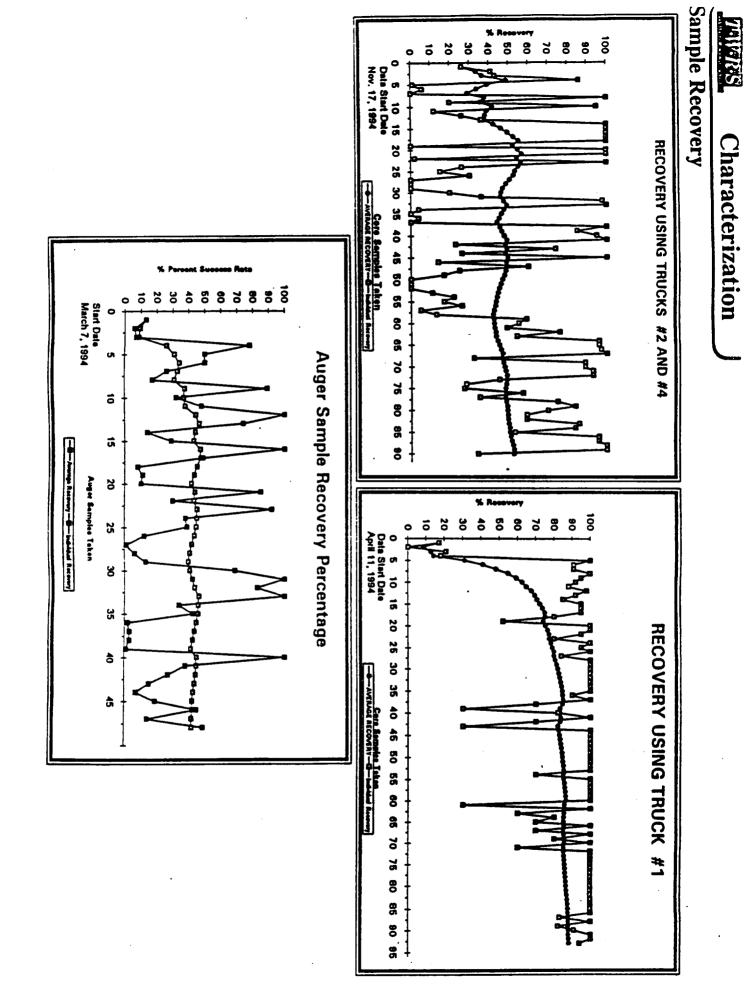




ACS CREW UTILIZATION DELAYS



*Reatart of RMCS Sampling



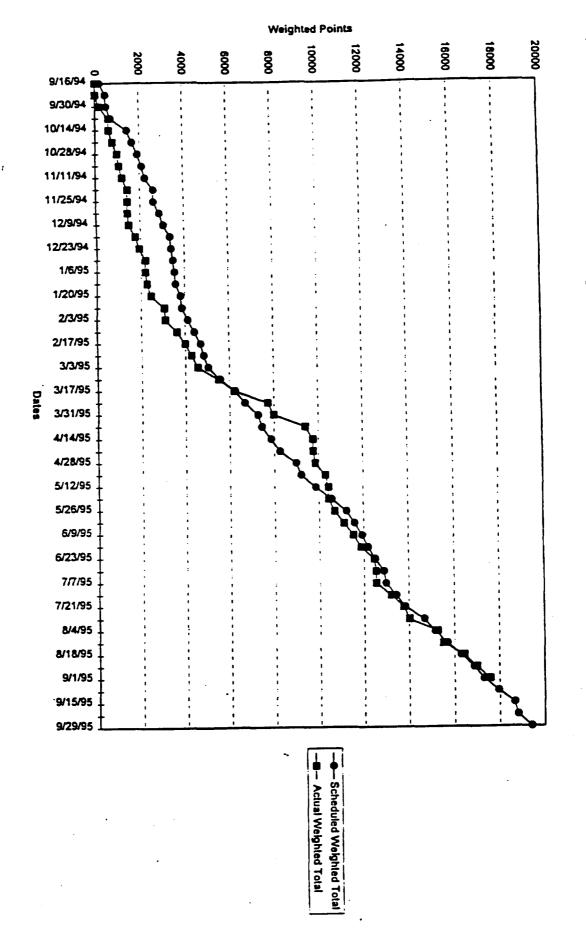
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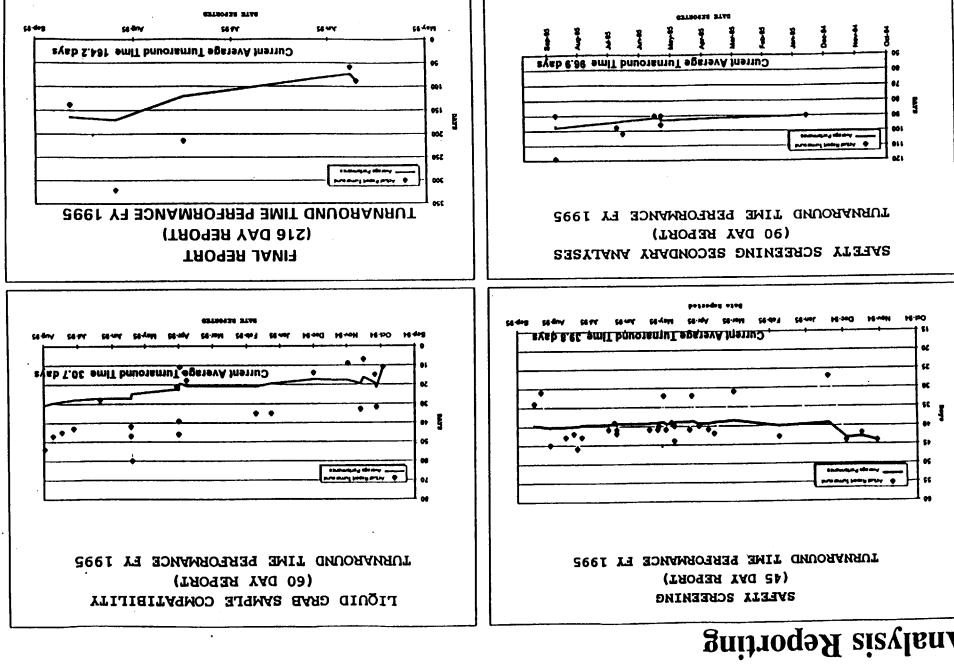
FY95 SAMPLING SCHEDULE



Weighted Points : Auger = 73.5, Rotary = 381, Push = 219, Vapor = 87.7, and Grab = 46.2



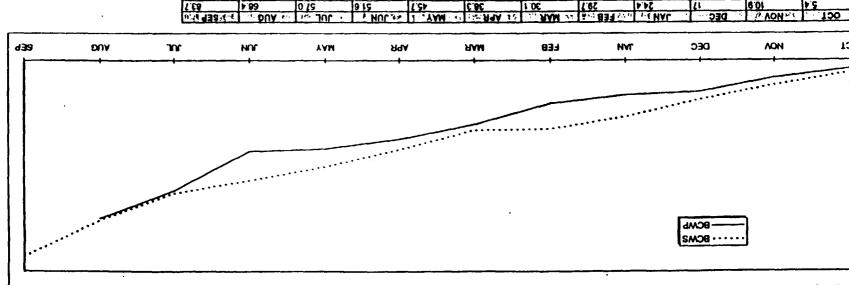
Analysis Reporting



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and Schedule Performance

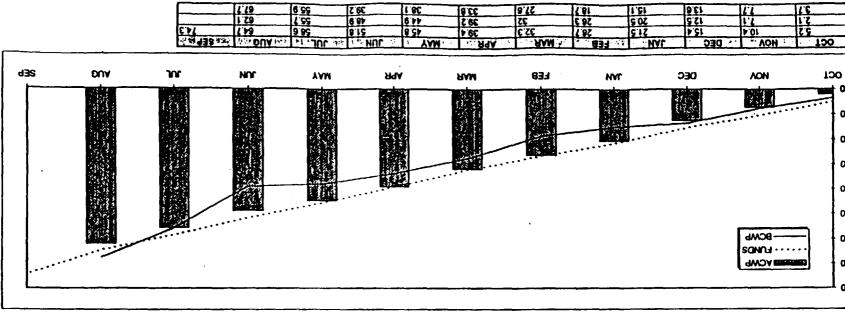
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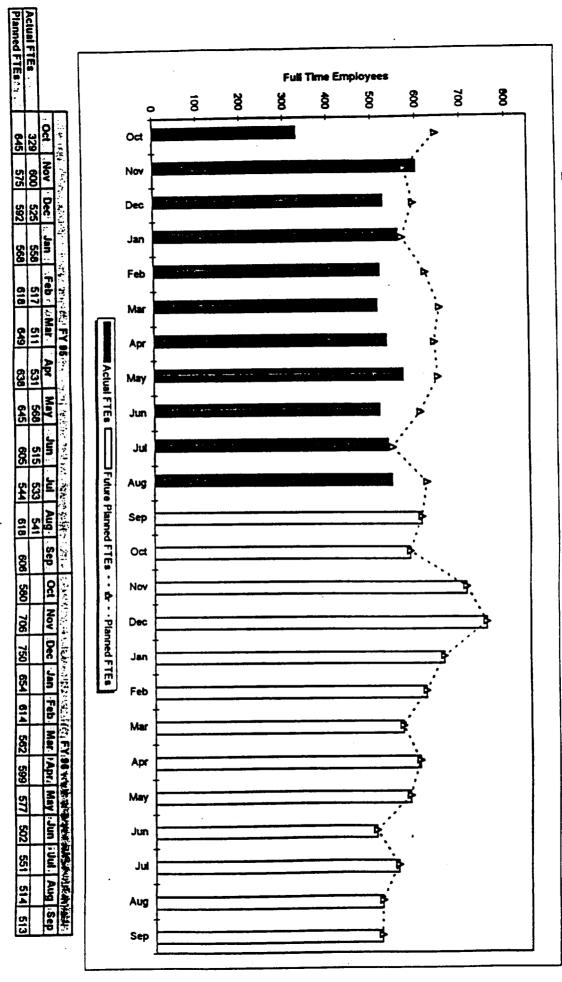
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Resource Requirements



Nole: 1. FTE data includes FTEs associated with laboratory work which is billed on a per unit basis. 2. FY 95 FTEs were normalized based on Change Request TVR-95-101.

3. FTEs in FY 96 for Other Contractors and PO Contracts are estimates based on FY 95 rates

11300 3:47 PM

Attachment 7 to 9453193.31

SITE MANAGEMENT SYSTEM FINANCIAL DATA AUGUST 1995 Pages 1-3

If you want a copy of Attachment 7, please contact Patsy Culver on (509) 373-3002.

		U9.	edule stat	accuracy of schedule status.		o ensure Illina	unds Ce	S may be a	rted in FDS	P) as repoi	NOTE: Performance data (BCWS / BCWP) as reported in FDS may be adjusted to ensure the NOTE: Performance data (BCWS / BCWP) as reported in FDS may be adjusted to ensure the
	0.0	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	-O.R.N.L 1.1.2.4.4 Analytical Integration
	. 0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	- U.S.A.C.E.
	0.0	9.2	9.2	9.2	9.6		· • •		7.2	7.4	TOTAL - P.N.L.
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	0.00	0.00		0.4	1.0	0.0		0.0	0.5	0.5	- P.N.L 1.1.2.4.1 Tech. Integration & Planning 1.1.2.4.2 Tech Developm't & Appl Engr
	0.2	63.2	63.4	63.6	72.0	▲ .>	(0.5)	54.2	58.4	58.9	TOTAL - W.H.C.
\$.2 M YEAREND COMMITMENT	0.0	16.0 7.6	15.8 7.6	16.0 7.6	18.6 8.6	0.8	0.0	14.5 5.9	27.9 14.7 6.7	27.7 15.3 6.7	
	0.00	7.7 3.1 28.8	8.1 3.1 28.8	8.1 3.1 28.8	8.8 3.5	1.8	0.0 0.1)	2.6 2.6	2.8.3	6.3	(1130-0) CHARACTERIZATION -WESTINGHOUSE HANFORD COMPANY 1.1.2.4.1 Tech. Integration & Planning 1.1.2.4.2 Tech Developm't & Appl Engr
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••• Expected Funds is defined as total funding guidance expects reprogramming actions, and reserve holdbacks).

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<u>-L.A.N.L.</u> 1.1.2.4.2 Tech Developm't & Appl Engr	0.2	0.2	0.2	0.0	0.0	0.2	0.1	0.1	0.1	0.0	•
1.1.2.4.5 Data Eval'n & Reporting TOTAL L.A.N.L.	1.0	1.2	1.0	0.0	0.2	1.1	1.0	0.9	1.0	0.0	
<u>-S.N.L.</u> 1.1.2.4.2 Tech Developm't & Appl Engr	0.5	0 .5	0.4	0.0	0.1	0.6	0.4	0.4	0.4	0.0	
TOTAL 1.1.2.4 (1130)	68.4	87.7	62.1	(0.7)	5.8	83.7	74.7	74.5	74.3	0.2	
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SITE MANAGEMENT

WESTINGHOUSE HANFORD COMPANY

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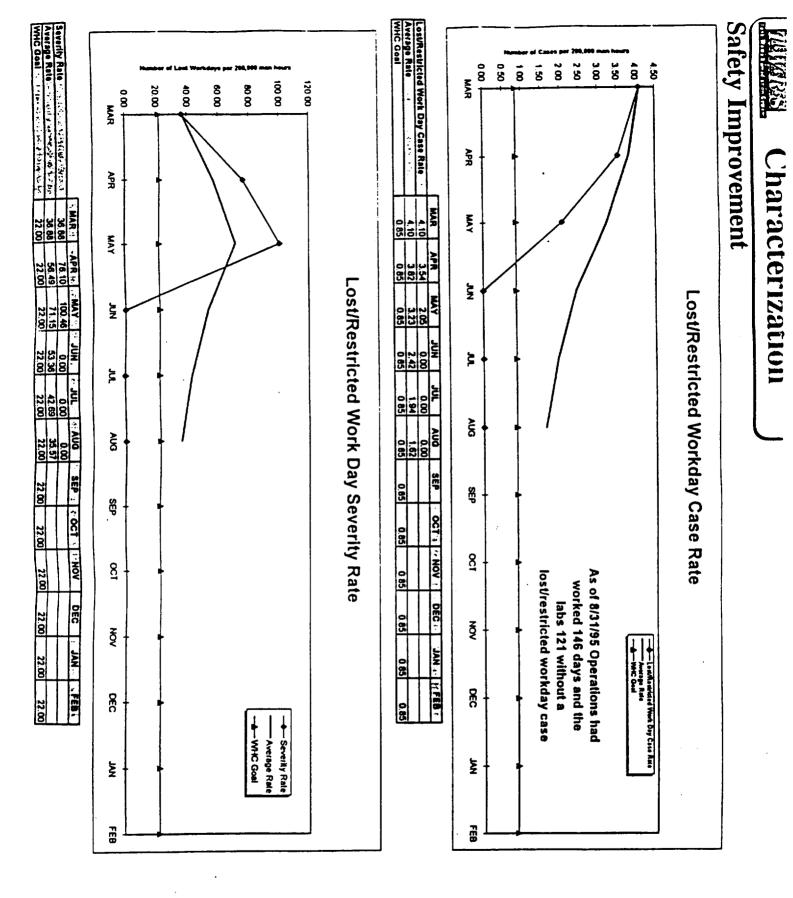
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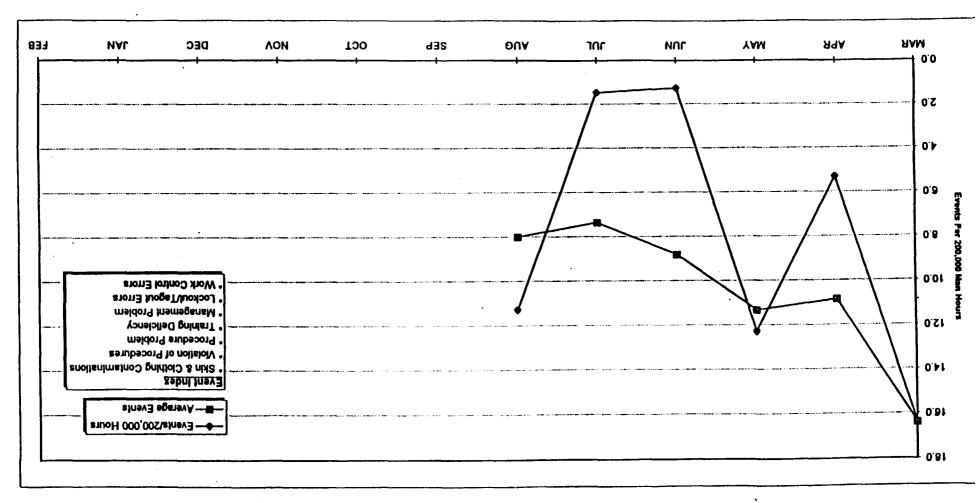
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Conduct of Operations Event Index



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SITE MANAGEMENT

SYSTEM

WESTINGHOUSE HANFORD COMPANY

1.1 TANK WASTE REMEDIATION SYSTEM

AUGUST 1995

CENRTC COST PERFORMANCE

(\$ In Millions)

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Activity for Curr. Year Funded Equip.	. 5.9	5.8	4.7	(0.1)	1.1	6.1	4.7	1.0		
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S/T		16.6	15.5	<u>(1.6</u>) (1.7)	1.1	18.7	15.5	1.6	1.6	
– P.N.L	1								1.	
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Activity for Prior Years Funded Equip							2.6	1		- und a urbiossest.
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S/T	0.2	0.2	0.2	0.0	0.0	0.3	0.2	0.0		
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NOTE: Performance data (BCWS / BCWP) as reported in FDS may be adjusted to ensure the accuracy of schedule status.

VIII-1.2

Characterization Project Highlight Report for the Period Ending September 30, 1995

> Consisting of 32 Pages, including Coversheet

9453193.32 Attachment 1 Page 1 of 9

CHARACTERIZATION PROJECT BIWEEKLY REPORT FOR THE PERIOD ENDING SEPTEMBER 30, 1995

SIGNIFICANT ACCOMPLISHMENTS

Westinghouse Hanford Company (WHC) submitted letter 9555033 to the U.S. Department of Energy, Richland Operations Office (RL), on September 20, 1995, transmitting information identified for field procedures and Conduct of Operations review. This transmittal met Defense Nuclear Facilities Safety Board (DNFSB) commitment 3.02, "Review Characterization Field Procedures/DOE Conduct of Operations."

WHC submitted letter 9555144 to RL on September 27, 1995, documenting the qualification for two additional core sample crews. This transmittal met DNFSB commitment 3.10, "Complete Qualification of Two Additional Core Sampling Crews."

A total of 42 waste tank headspace gas and vapor characterization reports (WHC letter 9552955.1), as well as a summary report, WHC-SD-WM-ER-514, Rev. 0, of all gas and vapor results to date were issued to RL on September 28, 1995. Submittal of these reports, and a previously submitted report for tank 241-C-103, completes the sampling and characterization of the vapor headspaces of 34 suspect tanks. The gas and vapor characterization reports include qualification of all pertinent data to caveat all previously identified quality assurance (QA) related concerns. This transmittal was requisite for completion of performance-based incentive milestone 95-011e (Secretaria] Safety Initiative 20, revision 5) to "sample and characterize remaining suspect tanks (Group A by June 1995 and Group B by November 1995) by October 1995," (WHC letter 9553008.1) and Hanford Federal Facility Agreement and Consent Order Tri-Party Agreement (TPA) milestones M-40-03 to "perform vapor characterization for all ferrocyanide Watch List tanks," and M-40-08 to "perform vapor characterization for all organic Watch List tanks" (WHC letter 9503553B R2).

WHC submitted letter 9555316 to RL on September 29, 1995, transmitting the Characterization Project laboratory data reports required for FY 1995. This transmittal met the following WHC milestones:

- Milestone T2D-95-122, "Transmit a 45-Day Report for All Sampling Events Based on Safety Screening Data Quality Objectives (DQOs) (i.e., samples received by the Laboratory by August 15, 1995) as Identified in the Tank-Specific Tank Characterization Plans."
- Milestone T2D-95-124, "Transmit 216-Day Data Report For All Sampling Events Based on Safety Resolution DQOs (i.e., samples received by the Laboratory by February 15, 1995) as Identified in the Tank-Specific Tank Characterization Plans."

- Milestone T2D-95-126, "Transmit 136-Day Analytical Data Packages From Each Sampling Event Within 136 Days (i.e., samples received by the Laboratory by May 15, 1995) Specific to the Compatibility DQO."
- Milestone T2D-95-127, "Transmit 172-Day Data Reports From Each Sampling Event (i.e., samples received by the Laboratory by April 15, 1995) Specific to Operation-Related DQOs."

The following six DNFSB 93-5 commitment items, previously submitted to RL, were forwarded to the DNFSB:

Commitment 1.16, "Complete Historical Tank Layering Models" Commitment 1.21.7, "Waste Compatibility DQO Report" Commitment 1.21.9, "Vapor Rotary Core DQO Final Draft Report" Commitment 1.21.11, "Pretreatment DQO Draft Report" Commitment 1.21.12, "High-Level Waste Immobilization DQO Draft Report" Commitment 1.21.13, "Low-Level Waste Immobilization DQO Draft Report"

PROBLEMS/ISSUES

None to report.

DETAILED WORK ACTIVITIES

TECHNICAL INTEGRATION AND PLANNING (WBS 1.1.1.2.4.1)

Fiscal year end financial processing for FY 1995 was a success. Year end expenditures were \$73,240,000 of the authorized funding level of \$74,300,000. In addition, a Productivity Challenge of 14.3% was accomplished.

Work plans for FY 1996 were initiated: Charge codes for all work were defined; External work orders for Contract Services were completed; and Purchase orders for external advisory support were implemented [Apex Environmental, Inc. for EH mentoring; Northwest Instrument Systems, Inc. for cost-loaded schedules; Technical Resources International, Inc. for technical and management support; and for representatives on the Tank Sampling Assistance Panel (TSAP)]. Contract arrangements are being finalized for Management Strategies, Inc. for technical support; Sonalysts, Inc. for Characterization Program Review; and for representatives on the Tank Characterization Advisory Panel (TCAP).

TECHNICAL DEVELOPMENT AND APPLIED ENGINEERING (WBS 1.1.1.2.4.2)

Prototype acceptance tests were performed for a cone penetrometer. The prototype has been accepted.

Mitigation turnover of a mixer pump and data acquisition and control system was completed September 29, 1995. Post-turnover items will continue to be worked.

9453193.32 Attachment 1 Page 3 of 9

FIELD SAMPLING AND MEASUREMENT (WBS 1.1.1.2.4.3)

The core sample X-ray system was taken out of the field for service after three "error" messages occurred while the system was being warmed up. Inspection of the system revealed that the high-voltage cable was the source of the problem. Repairs to the X-ray imaging unit were completed, and the unit was returned to the field.

Push-mode Sampling

RMCS #1

Push-mode core sampling was completed for a total of three cores (105, 110, and 111) from tank 241-S-107, risers 11, 16, and 2, using rotary-mode core sampling (RMCS) truck #1. The X-ray imager was not available to provide immediate sample recovery values. The following recovery rates for the first seven push mode segments of tank 241-S-107, Core 110 were: segment 1, 100%; segment 2, 78%; segment 3, 100%; segment 4, 84%; segment 5, 89%; segment 6, 89%; and segment 7, 89%.

During sampling, a shaft failure was experienced in connection with the remote latching unit (RLU) motor and relay. The relay may have caused overdriving the RLU past the design stop point, leading to shaft failure. The motor and the K3 relay located in the latching control panel were replaced and tested.

Rotary-mode Sampling

RMCS #2

Rotary-mode core sampling, using RMCS truck #2 with a push bit, was completed for one core from tank 241-BY-110, riser 12B. Recovery rates from the first three segments were: segment 1, 80%; segment 2, 52%; and segment 3, 62% per the X-ray imager unit.

During sampling of segment 4, the drill string failed. Inspection with the in-tank video camera, located in an adjacent riser, revealed mechanical failure of a portion of the drill string at a threaded joint. Characterization Field Engineering and Characterization Equipment Design are in the process of preparing equipment and plans for the retrieval of the failed (bent) drill string. The selected approach to retrieve the drill string will use a device fed down the inside bore of the failed section. The principle of operation involves a set of wedges that will be expanded against the inside drill string, anchoring it against the wall, then pulled up with an attached cable. The device is a modification of a similar fabricated item recently used to successfully retrieve a thermocouple tree from a tank. The retrieval operation will be monitored live by an in-tank video camera. Contingency plans are being developed for backup methods to retrieve the drill string in the event a problem develops with the primary method. An investigation of the structural integrity of RMCS truck #2's shielded receiver lifting frame revealed that the frame has a safety factor of approximately 1. This safety factor is less than desired; therefore, use of the truck was temporarily suspended. The truck will be released for limited use after completion of interim compensatory measures. A replacement shielded receiver frame is being designed. The new frame will be installed during the next scheduled maintenance outage.

<u>RMCS #3</u>

RMCS truck #3 is located at the RMCS test site for training and new bit testing.

RMCS #4

RMCS truck #4 is located at tank 241-BY-105, riser 12A in preparation for sampling activities. A management decision was made to impose flammable gas Watch List restrictions on this tank. All sampling activities have been halted and before any activities can resume, a new procedure and work package must be generated that includes the additional requirements imposed by the flammable gas Watch List restrictions.

Auger Sampling

Auger sampling for the second and third cores in tank 241-SX-108 was completed. Equipment breakdown and cleanup were initiated. The next auger sampling is scheduled for tank 241-BX-110.

The flammable gas tank auger procedure, TO-080-008, was approved by the Administrative Review Team committee.

Vapor Sampling

Vapor sampling of inactive miscellaneous underground storage tank 241-C-301 using the Vapor Sampling System was completed on September 29, 1995.

A field walkdown of tank 241-TX-111 has been conducted. Work packages have been started for vapor sampling of tanks 241-A-103, BX-107, and BY-102.

The Flammable Gas Program Manager approved fabrication of three new heated vapor probes to replace the three "donated" probes that were installed in BY-Farm. In addition, 14 offset adapters will be ordered from the shop to support FY 1996 riser preparation.

Grab Sampling

Grab sampling was completed for tank 241-AY-102, fulfilling the fiscal year 1995 scheduled commitment for obtaining a total of 32 grab samples. Total number of samples pulled to date is 133.

9453193.32 Attachment 1 Page 5 of 9

Otv Recovered

ANALYTICAL INTEGRATION (WBS 1.1.1.2.4.4)

Forty-two waste tank headspace gas and vapor characterization reports will be forwarded by RL to the Washington State Department of Ecology and the U.S. Environmental Protection Agency (EPA) to meet the Tri-Party Agreement M-40-08 milestone. Quality assurance concerns were primarily a result of the past developmental nature of the vapor analytical program as well as concerns from more recent QA assessment items. Quality assurance assessments were recently conducted at the two laboratories that supported the vapor program this past year (Oak Ridge National Laboratory [ORNL] and Pacific Northwest Laboratory [PNL]). All previously identified QA issues were successfully closed (although five new items were identified at PNL relating to recent technology transfer workscope from ORNL). Additional actions are being implemented to improve the overall quality of the program, including establishment of a vapor program technical basis to support revision of the existing generic vapor DQO, revision of the vapor project QA plan, and implementation of Hanford Analytical Services Quality Assurance Plan protocol in supporting laboratories.

222-S Laboratory

<u>Date</u>	<u> Tank # </u>	Туре	<u>Core</u>	<u>Riser #</u>	<u>Sample #</u>	<u>Solid/Liquid</u>
9-18-95	241-BY-110	Rotary	109/1R	12B	95-205R	97.9g/
9-18-95	241-BY-110	Rotary	109/1AR		95-205AR	*
9-18-95	241-BY-110	Rotary	109/2	12B	95-206	*
9-19-95	241-BY-110	Rotary	109/2A	12B	95-206A	*
9-19-95	241-BY-110	Rotary	109/3	12B	95-207	56.6g/37.8g
9-20-95	241-BY-110	Rotary	109/4	12B	95-208	*
9-20-95	241-SX-108	Auger	,	16	95-AUG-042	81.3g/
9-20-95	241-S-107	Push	105/1	11	95-171	/62.1g
9-20-95	241-S-107	Push	105/2	11	95-172	147.8g/145.3g
9-20-95	241-BY-105	Rotary	108/2	12A	95-198	18.5g/
9-21-95	241-BY-105	Rotary	108/3	12A	95-199	43.0g/
9-22-95	241-S-107	Push	105/3	11	95-173	357.6g/
9-22-95	241-S-107	Push	105/4	11	95-174	476.3g/
9-22-95	241-S-107	Push	105/5	11	95-175	455.4g/
9-22-95	241-S-107	Push	105/6	11	95-176	483.3g/
9-22-95	241-S-107	Push	105/7	11	95-177	541.7g/
9-22-95	241-S-107	Push	105/8	11	95-178	361.5g/
9-25-95	241-S-107	Push	110/1	16	95-209	/77.7g
9-25-95	241-S-107	Push	110/2	16	95-210	210.0g/103.6g
9-25-95	241-S-107	Push	110/3	16	95-211	425.9g/
9-25-95	241-SX-108	Auger	•	16	95-AUG-043	144.1g/
9-26-95	241-S-107	Push	110	16	Field Blank	/
9-26-95	241-S-107	Push	110/3A	16	95-211A	345.0g/
9-26-95	241-S-107	Push	110/4	16	95-212	435.3g/
9-26-95	241-S-107	Push	110/5	16	95-213	478.0g/
9-26-95	241-S-107	Push	110/6	16	95-214	483.5g/
9-26-95	241-S-107	Push	110/7	16	95-215	542.5g/

The following samples were extruded at the Laboratory:

9453193.32 Attachment 1 Page 6 of 9

_Date	<u> Tank # </u>	Type	<u>Core</u>	<u>Riser #</u>	<u>Sample #</u>	Qty Recovered <u>Solid/Liquid</u>
9-28-95 9-28-95	241-S-107 241-SX-108	Push Auger	110/8	16 17	95-216 95-AUG-044	449.5g/ *
9-28-95	241-BY-110	Rotary	96/1	12B	95-121	76.0g/
9-28-95	241-BY-110	Rotary	96/2	12B	95-122	193.4g/
9-29-95	241-BY-110	Rotary	96/3	12B	95-123	208.6g/
	241-S-107	Push	111/1	2	95-217	/218.1g
9-29-95	241-S-107	Push	111/2	2	95-218	262.2g/79.9g
9-29-95	241-S-107	Push	111/3	2	95-219	339.lg/
9-29-95	241-S-107	Push	111/4	2	95-220	421.0g/
9-29-95	241-S-107	Push	111/5	2	95-221	481.2g/
9-29-95	241-S-107	Push	111/6	2	95-222	474.0g/

*No sample observed or collected.

Laboratory Reports completed:

<u> </u>	Report <u>(Davs)</u>	Scheduled <u>Due Date</u>	Completion <u>Date</u>	Performance			
241-T-106	45	09/25/95	09/20/95	+5 days ahead			
241-B-101	90	09/24/95	09/26/95	-2 days behind			
241-T-109	45	10/06/95	09/29/95	+7 days ahead			
241-C-103	Final	09/13/95	09/29/95	-16 days behind			

WHC-SD-WM-DP-143, Rev. 0, 45-Day Safety Screen Results for Tank 241-T-106, Auger Samples 95-AUG-038 and 95-AUG-039.

WHC-SD-WM-DP-139, Rev. O-A, 90-Day Safety Screening Results for Tank 241-B-101, Push Mode Cores 90 and 91.

WHC-SD-WM-DP-144, 45-Day Safety Screen Results for Tank 241-T-109, Auger Samples 95-AUG-040 and 95-AUG-041.

WHC-SD-WM-DP-099, Rev. 1, Final Report for Tank 241-C-103, Push Mode Sample, Cores 63 and 66.

9453193.32 Attachment 1 Page 7 of 9

DATA EVALUATION AND REPORTING (WBS 1.1.1.2.4.5)

The DQO process was initiated for the tank disposal privatization effort. The process will document the data requirements to support the first phase of privatization of waste disposal.

A preliminary version of a sampling system bias document was provided for internal review. This document addresses sources of bias and variability within the sampling and analysis process. It includes recommendations for future testing and evaluation of bias.

The final copies of the Southeast Quadrant Historical Tank Content Estimate (HTCE) Reports for 6 double-shell tank farms (AN, AP, AW, AY, AZ and SY) were transmitted by ICF Kaiser Company to WHC. This transmittal completes the first phase of the historical tank characterization effort.

WHC-SD-WM-TSAP-040, Rev. 0, Tank 241-BY-104, Rotary Core Sampling and Analysis Plan, was submitted to Configuration Documentation on September 14, 1995. This sampling and analysis plan (SAP) identifies characterization objectives pertaining to sample collection, laboratory analytical evaluation, and reporting requirements for sampling tank 241-BY-104. Vapor samples and two rotary-mode core samples will be taken to address program issues: safety screening DQOs, ferrocyanide DQOs, organic DQOs, organic test plan, historical model, and Pretreatment Program requirements.

A draft Systems Engineering Implementation Plan for Characterization was developed and is in approval routing.

A definition of the "minimum acceptable tank characterization report" was negotiated and a letter was transmitted from RL to WHC to document this action. The minimum is defined as a report that "contains sufficient information to fully satisfy the decision makers' information needs based on the current tank safety screening DQO."

Los Alamos Technical Associates delivered the first draft of the tank 241-C-108 tank characterization report (TCR) to WHC on September 18, 1995. Copies of the draft were distributed for simultaneous peer and functional review. Issuance of this TCR will support a Ferrocyanide Program milestone.

A review of the priority tanks was requested based on the determination that many priority tanks cannot be rotary sampled until flammable gas issues are resolved. A list of priority tanks that have a high probability of success through push mode sampling was provided. A prioritized list of additional tanks that can be rotary mode sampled (no flammable gas concerns) was also provided.

A draft work plan for development of the official tank contents inventory was submitted for review.

Technical Baseline Integration staff met with Tank Waste Safety Program staff to review roles and responsibilities in the upcoming year for DQO development. The discussion included the required teaming between Characterization and Process Engineering. Technical Baseline Integration staff and other Characterization staff are meeting with Los Alamos National Laboratory to review the historical data development task. The review will cover all recent data results.

The Core Sampling Information Summary table was updated to include all core sample information from June 1987 through August 1995.

The DQO procedure, WHC-IP-1216, for the development and release of DQO documents, was released. This procedure is based on EPA guidance for developing DQOs, and provides specific instructions for Tank Waste Remediation System use.

The report, *Historical Tank Content Estimate and Sampling Estimate Comparisons*, was provided to WHC by PNL on September 29, 1995. This report provides initial results of the comparison of predicted waste content with observed sample results. A continuation of this work, combined with other methods of evaluating model prediction quality, will lead to the determination of the confidence that may be placed in the historic model predictions.

The following tank characterization plans (TCPs), tank characterization reports (TCRs), and sampling and analysis plans (SAPs), first issue or recent revision, were released during this reporting period:

Tank	Document	Document Number, Revision	Date Transmitted
241-BY-104	Tank 241–BY-104 Rotary Core Sampling and Analysis Plan	WHC-SD-WM-TSAP-040, Revision 0	9/14/95
241-SX-108	Tank 241-SX-108 Auger Sampling and Analysis Plan	WHC-SD-WM-TSAP-007, Revision 0	9/15/95
N/A	Compatibility Grab Sampling and Analysis Plan	WHC-SD-WM-TSAP-037, Revision 1-A	9/18/95
241-AX-102	Tank Characterization Report for Single-Shell Tank 241-AX-102	WHC-SD-WM-ER-472, Revision 0-B	9/20/95
241-B-103	Tank Characterization Report for Single-Shell Tank 241-B-103	WHC-SD-WM-ER-488, Revision 0-A	9/20/95
241-B-112	Tank Characterization Report for Single-Shell Tank 241-B-112	WHC-SD-WM-ER-466, Revision 0-B	9/20/95
241-BX-101	Tank Characterization Report for Single-Shell Tank 241-BX-101	WHC-SD-WM-ER-408, Revision 0-B	9/20/95
241-BX-105	Tank Characterization Report for Single-Shell Tank 241-BX-105	WHC-SD-WM-ER-406, Revision 0-B	9/20/95
241-BX-108	Tank Characterization Report for Single-Shell Tank 241-BX-108	WHC-SD-WM-ER-407, Revision 0-B	9/20/95
241-C-101	Tank Characterization Report for Single-Shell Tank 241-C-101	WHC-SD-WM-ER-473, Revision 0-B	9/20/95
241-C-105	Tank Characterization Report for Single-Shell Tank 241-C-105	WHC-SD-WM-ER-489, Revision 0-B	9/20/95

9453193.32 Attachment 1 Page 9 of 9

Tank	Document	Document Number, Revision	Date Transmitted
241-C-107	Tank Characterization Report for Single-Shell Tank 241-C-107	WHC-SD-WM-ER-474, Revision 0-B	9/20/95
241-C-111	Tank Characserization Report for Single-Shell Tank 241-C-111	WHC-SD-WM-ER-475, Revision 0-B	9/20/95
241-C-201	Tank Characterization Report for Single-Shell Tank 241-C-201	WHC-SD-WM-ER-476, Revision 0-B	9/20/95
241-C-202	Tank Characterization Report for Single-Shell Tank 241-C-202	WHC-SD-WM-ER-477, Revision 0-B	9/20/95
241-C-203	Tank Characterization Report for Single-Shell Tank 241-C-203	WHC-SD-WM-ER-478, Revision 0-B	9/20/95
241-SX-113	Tank Characterization Report for Single-Shell Tank 241-SX-113	WHC-SD-WM-ER-480, Revision 0-B	9/20/95
241-TY-104	Tank Characterization Report for Single-Shell Tank 241-TY-104	WHC-SD-WM-ER-481, Revision 0-A	9/20/95
241-TY-106	Tank Characterization Report for Single-Shell Tank 241-TY-106	WHC-SD-WM-ER-482, Revision 0-B	9/20/95
241-U-201	Tank Characterization Report for Single-Shell Tank 241-U-201	WHC-SD-WM-ER-483, Revision 0-B	9/20/95
241-U-202	Tank Characterization Report for Single-Shell Tank 241-U-202	WHC-SD-WM-ER-484, Revision 0-B	9/20/95
241-U-203	Tank Characterization Report for Single-Shell Tank 241-U-203	WHC-SD-WM-ER-485, Revision 0-B	9/20/95
241-U-204	Tank Characterization Report for Single-Shell Tank 241-U-204	WHC-SD-WM-ER-486, Revision 0-B	9/20/95

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DNFSB 93-5 COMMITMENTS STATUS, Pages 1-3 As of October 3, 1995

Please contact Larry Pennington on (509) 376-1863, if you have any questions.

Page 1

DNFSB 93-5 COMMITMENTS STATUS

As of October 3, 1995

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Number	Description	Due Date	Submitted	Submitted
			to DOE-RL	to DNFSB
1.01	Enhance WHC Characterization Program Management Staff	2/28/94	2/28/94	6/27/94
1.02	Reduce Management Layers in WHC TWRS	3/31/94	3/24/94	6/30/94
1.03	Improve RL Oversight	5/31/94	5/31/94	5/31/94
1.04	Plan to Improve Char. Prog. Tech. Staff Competencies	4/30/94	4/29/94	4/29/94
1.05	Implement Plan to Improve Tech Staff Competencies	5/31/95		
1.06	Define Resp of Key Characterization Managers	3/31/94	3/31/94	7/12/94
1.07	Streamline DQO Process	1/31/94	12/31/93	5/26/94
1.08	Issue TWRS Characterization Quality Assurance Plan	2/28/94	2/28/94	5/26/94
1.09	Plan for Blind Samples	5/31/94	5/24/94	6/1/94
1.10.41	Issue Quarterly Progress Reports	4/30/94	5/3/94	5/3/94
1.10.42	Issue Quarterly Progress Reports	7/30/94	7/25/94	7/25/94
1.10.43	Issue Quarterly Progress Reports	10/30/94	10/20/94	10/20/94
1.10.44	Issue Quarterly Progress Reports	1/31/95	1/20/95	1/20/95
1.10.51	Issue Quarterly Progress Reports	4/30/95	4/21/95	5/10/95
1.10.52	Issue Quarterly Progress Reports	7/31/95	7/25/95	8/8/95
1.10.53	Issue Quarterly Progress Reports	10/20/95		
1.10.54	Issue Quarterly Progress Reports	1/19/96		
1.10.61	Issue Quarterly Progress Reports	4/19/96		
1.10.62	Issue Quarterly Progress Reports	7/19/96		
1.10.63	Issue Quarterly Progress Reports	10/18/96		
1.11	Field Schedule for Sampling All Activities FY95 & 96	6/30/94	9/30/94	
1.12	Management Staff Complete System Eng Training	5/31/94	2/15/94	5/25/94
1.13	Charact. Functions/Requirements in Functional Analysis	1/31/94	4/28/94	6/1/94
1.14	Charact. Part of Initial Systems Eng Analysis Results	6/30/94	6/30/94	6/30/94
1.15	Integrate Vapor Sample Prog into Charact. Program	10/31/94	11/3/94	12/3/94
1.16	Complete Historical Tank Layering Models	9/30/94	5/18/95	9/18/95
1.17	Historical Tank Content Est Reports NE/SW	6/30/94	6/29/94	6/30/94
1.18	Historical Tank Content Est Reports NW/SE	3/31/95	7/30/95	8/24/95
1.19	Develop Statistical Tools for Samples Needed	12/30/94	12/29/94	8/8/95
1.20	TWRS Risk Acceptance Criteria	8/31/94	5/19/95	
1.21.01	Ferrocyanide Safety Issue DQO	12/15/93	5/1/95	9/12/95
1.21.02	C-103 Vapor DQO Draft Report	1/31/94	3/25/94	9/12/95
1.21.03	C-103 Dip Sample DQO	12/16/94	3/25/94	9/12/95
1.21.04	C-106 High Heat DQO Final Report	12/20/94	1/19/94	9/12/95
1.21.05	Organic Safety Issue DQO Report (PNL)	1/31/94	5/1/95	9/12/95
1.21.06	Safety Screening Module DQO	1/31/94	5/1/95	9/12/95
1.21.07	Waste Compatibility DQO Report	2/28/94	5/1/95	9/18/95
1.21.08	In-tank Generic Vapor DQO Final	3/3/94	5/1/95	
1.21.09	Vapor Rotary Core DQO Final Draft Report	1/20/94	3/25/94	9/18/95
1.21.10	Hydrogen Generating DQO Final Report	4/29/94	5/1/95	9/12/95

DNFSB 93-5 COMMITMENTS STATUS

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As of October 3, 1995

Number	Description	Due Date	Submitted to DOE-RL	Submitted to DNFSB
	Description DOO Droft Benot	8/22/94	6/29/95	9/18/95
1.21.11	Pretreatment DQO Draft Report HLW Immobilization DQO Draft Report	9/6/94	6/29/95	9/18/95
1.21.12	LLW Immobilization DQO Draft Report	9/21/94	6/29/95	9/18/95
1.21.13	Update FY94 Field Sched to Incorp New Tech.	2/28/94	2/8/94	6/27/94
1.22	Approach			
1.23	Identify 'Bounding Tanks' for Disposal	11/30/94	6/29/95	
2.01	DQOs for all Six Safety Issues	4/29/94	5/1/95	9/12/95
2.02	Safety Screening Module DQO Report	1/31/94	5/1/95	9/12/95
2.03	Complete Sampling & Analysis of All Watch List	10/31/95		
2.00	Tanks			
3.01	Initiate Const. of 2nd & 3rd Rotary Core Sample	11/30/93	11/1/93	11/15/93
••••	Trucks			
3.02	Review Char. Field Proc's/DOE Conduct of Ops	1/31/94	9/20/95	
3.03	Complete Qualif. of 1st Push Mode Crew	2/28/94	1/26/94	6/30/94
3.04	Redeploy Push Mode Core Sampling	3/31/94	3/30/94	6/30/94
3.05	Complete Training & Quals for Sampling Cog Engs	2/28/94	2/24/94	8/11/94
3.06	Restore Rotary Mode Sampling (TPA)	3/31/94	10/26/94	11/2/94
3.07	Complete Qual 1st Rotary Mode Crew	3/31/94	3/31/94	6/30/94
3.09	Detailed Plans for Acquiring/Training Add'l Crews	4/30/94	4/29/94	6/30/94
3.10	Qual of 2 Additional Crews/Push & Rotary Trucks	6/30/94	9/27/95	
3.11	Additional Rotary Mode Core Systems	9/30/94	6/30/95	
3.12	Hire/Train/Qualify 4 Add'l Rotary Mode Crews	10/31/94		
3.13	Deploy Prototype Cone Penetrometer	5/31/95		
3.14	Installation of Flammable Gas Monitors	4/30/95	4/24/95	6/23/95
3.15	Eng Eval for In Situ Moisture Monitoring	6/30/94	6/28/94	6/30/94
3.16	Direct Drill Bit Temperature Monitoring	1/31/95		
3.17	Review Procedures with Outside Drilling Experts	6/30/94	6/30/94	8/2/94
3.18	Dev. Means for Measuring Complete Sample	1/31/95	9/14/95	
	Recovery		8/31/94	9/12/94
3.19	Eng Eval of New Risers on SSTs	8/31/94	2/10/94	2/25/94
4.01	Issue Approved Broad Based Environmental	2/28/94	2/10/94	2/23/34
	Assessment	1/31/94	1/10/94	1/10/94
4.02	DOE-RL submit Delegation of Authority request to HQ	4/30/94	1/10/94	7/28/94
4.03	Obtain Delegation of Authority for DOE-RL	9/30/94	9/1/94	8/2/95
5.01	Install Core Scanning in Hot Cell	9/30/95		
5.02	Complete Renovation of 325 'A' Hot Cell	3/31/94		10/26/94
5.03	Letter Assessing Operability of New Extruder	9/30/94	9/1/94	
5.04	Cyanide Speciation Tech Transfer (PNL)	3/31/94		
5.05	Issue Results of Sampler Exchange Phase II	6/30/94		
5.06	Evaluate Laboratory Staff Training	8/31/94		
5.07	Develop & Implement Training for Laboratory Staff	9/30/94		
5.08	Procure & Receive 2 PAS-1 Casks	1/31/94		
5.09	Plan to Upgrade INEL Lab	3/29/94		
5.10	Plan to Upgrade LANL Lab		1	

DNFSB 93-5 COMMITMENTS STATUS

As of October 3, 1995

Number	Description	Due Date	Submitted to DOE-RL	Submitted to DNFSB
5.11	Develop Min/Max Lab Capacity Strategy	2/28/94	2/28/94	6/30/94
5.12	Upgrade INEL Lab to Ready to Serve Mode	10/31/94	10/31/94	11/4/94
5.13	Upgrade LANL Lab to Ready To Serve Mode	2/28/95	2/6/95	4/10/95
5.14	Two PAS-1 Casks will be ready for use Jan. 1995	1/31/95		
6.01	Prepare a Customer Needs Analysis (data)	4/30/94	5/2/94	6/23/94
6.02	Issue a Data Mgmt Improvement Plan	5/31/94	5/1/94	5/26/94
6.03	Initial On-Line Capability for LABCORE-1	1/31/94	1/31/94	6/23/94
6.04	Demonstrate Off-Site Access to Tank Charact. Database	1/31/94	1/28/94	7/12/94
6.05	Complete data Loading of 20 Tanks into Database	9/30/94	9/30/94	10/25/94
6.06	Evaluate 12 Validated Data Reports for Safety	1/31/94	4/25/94	6/30/94
7.01	Formally Submit Changes to Commitments			
7.02	Address Changes to Milestones in Quarterly			

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Attachment 3 to 9453193.32

SAMPLING STATUS SUMMARY, Page 1 of 1, As of September 30, 1995

Characterization Program Tank Sampling Status Summary October 1, 1994 to September 30, 1995

	Tanks Scheduled/Completed	Samples Scheduled/Completed
Auger	23/23	46/45
Push	14/14	30/30
Rotary	2.5/1.5	9/9
Vapor	40/40	40/40
Grab	32/32	32/32
	·	

Notes:

Tank samples are counted as follows: Rotary, Push, and Auger - 1 sample per riser/average 2 risers per tank. Grab and Vapor - 1 sample per tank

Draft Rev. 4.4 schedule is used. All rotary cores from tanks 241-BY-108 and BY-110 are being counted in both scheduled and completed columns.

Attachment 4 to 9453193.32

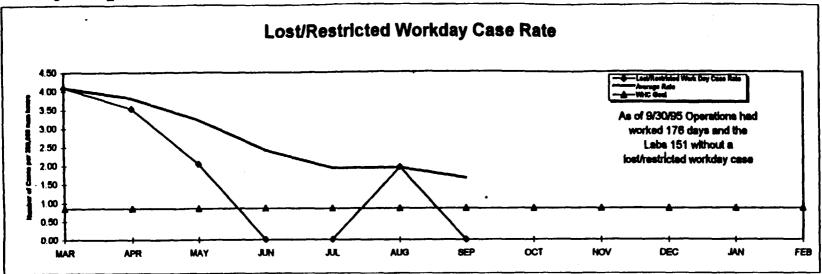
PERFORMANCE INDICATOR CHARTS, Pages 1-14, As of September 30, 1995

If you want a copy of Attachment 4, please contact Patsy Culver on (509) 373-3002.

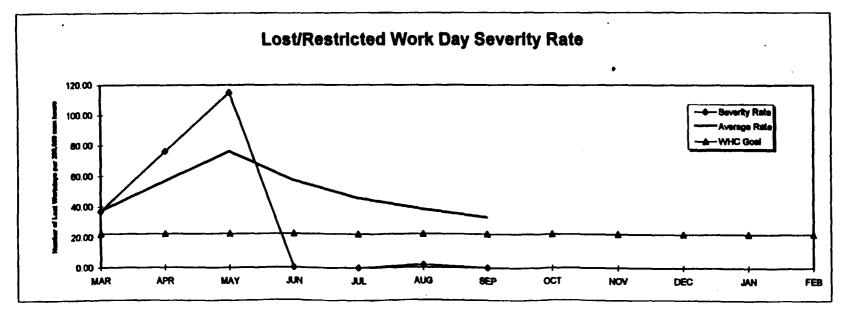
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Safety Improvement



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ATTENDED NEWS CONTRACTOR	4.10	3.82	3.23	2.42	1.94	1.94	1.66					
	0.85	0.85	0.85	0.85	0.85	0.65	0.85	0.85	0.85	0.85	0.65	0.85

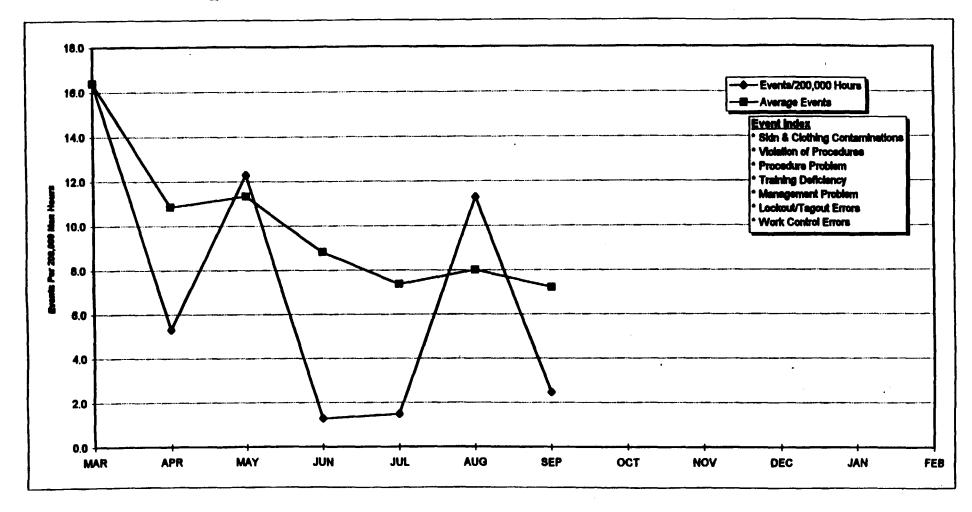


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T-W-R-S Characterization

Conduct of Operations Event Index

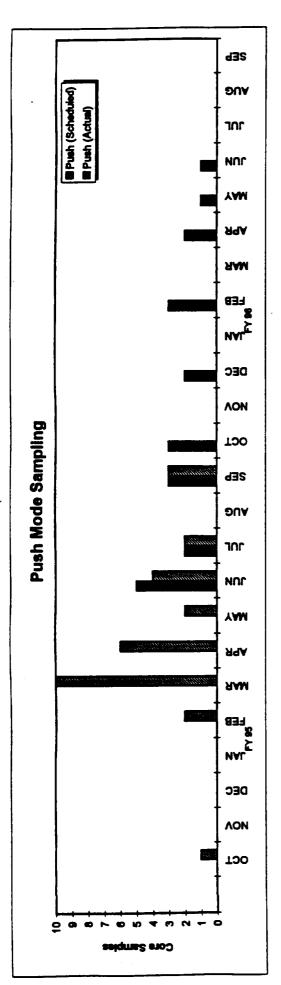


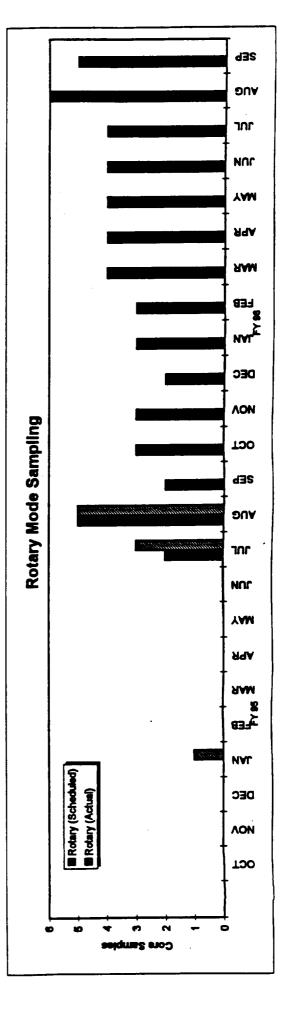
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Hours	97,605	113,006	97,550	157,115	135,725	106,360	80,718				
Events/200,000;Hourse.	16.4	5.3	12.3	1.3	1.5	11.3	2.5				
AVAILABLEMINE	16.4	10.9	11.3	8.8	7.3	8.0	7.2				

10/3/85 8:54 AM



Push and Rotary Sampling

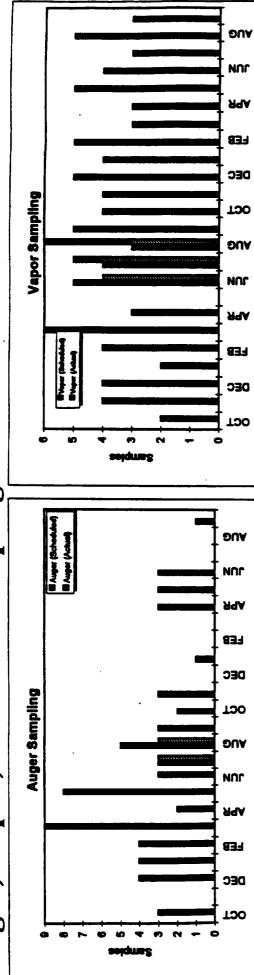


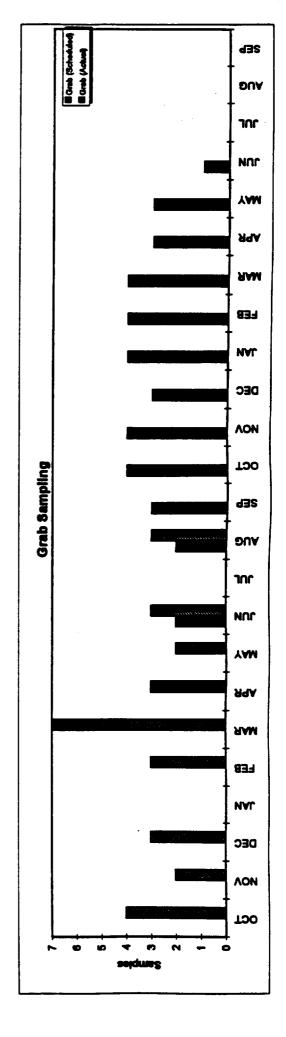


NDICATE XLB



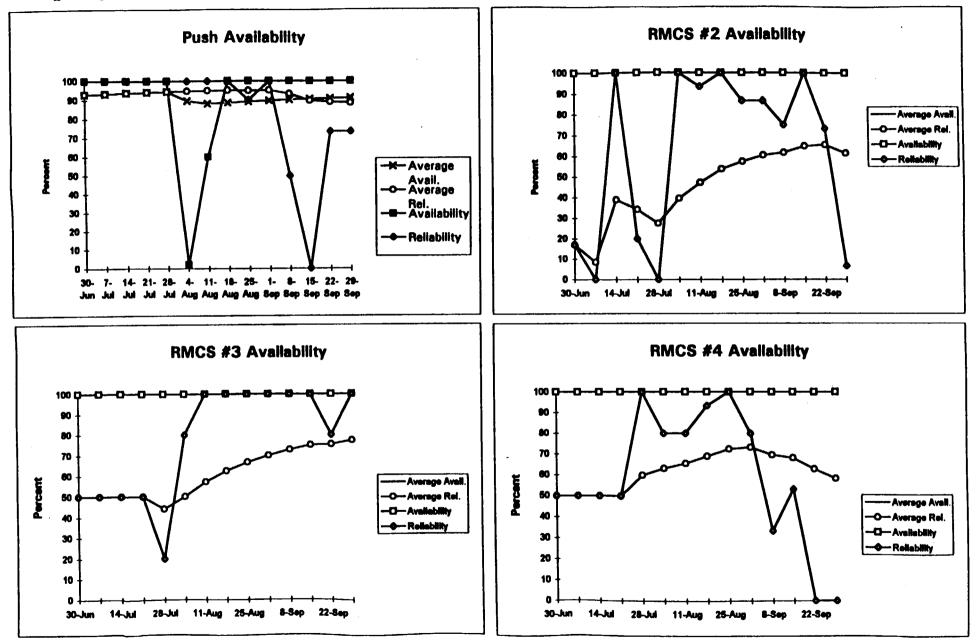
Auger, Vapor, and Grab Sampling





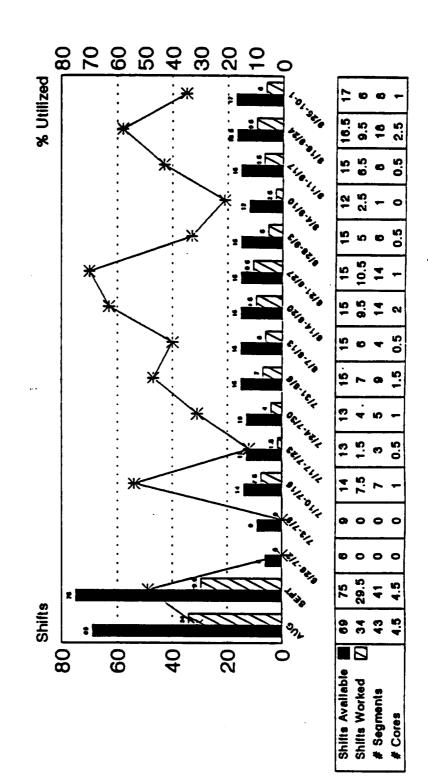


Sampling Equipment Availability





ROTARY SAMPLING UTILIZATION Characterization Project Operations



1995

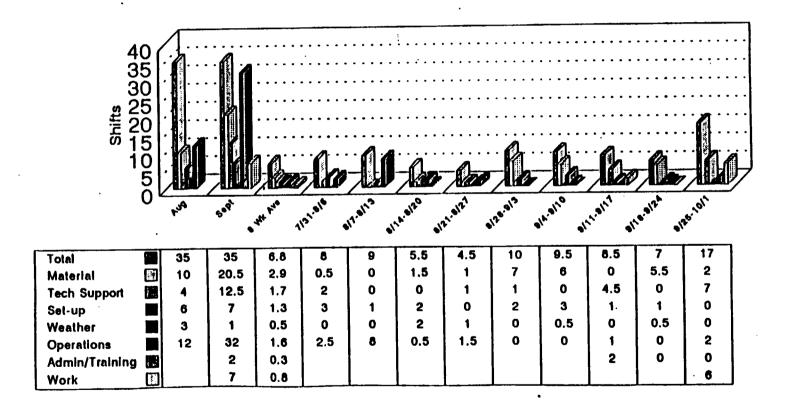
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RMCS UTILIZATION DELAYS

Characterization

Characterization Project Operations



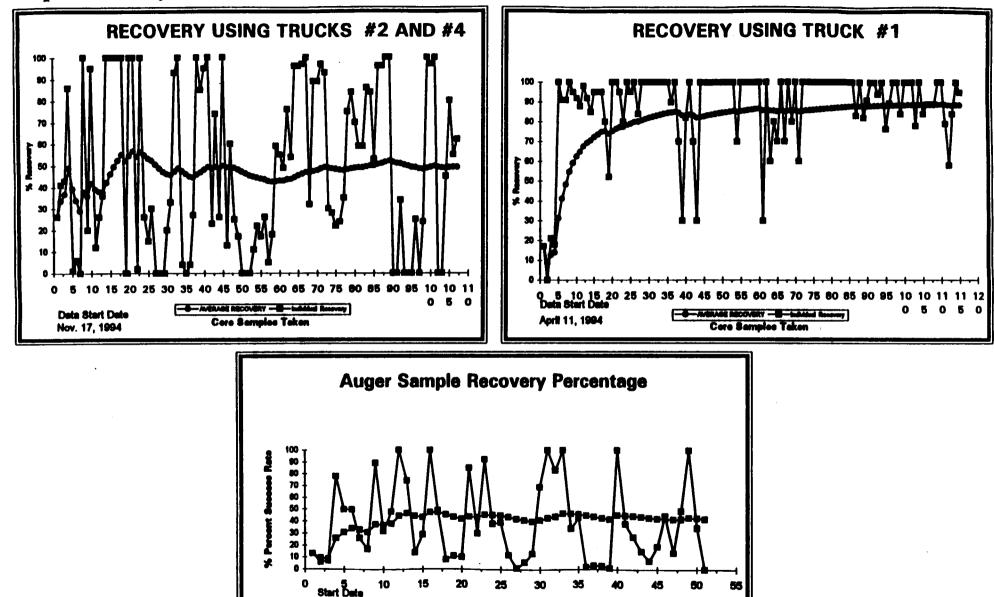
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T-W-R-S

Characterization

Sample Recovery

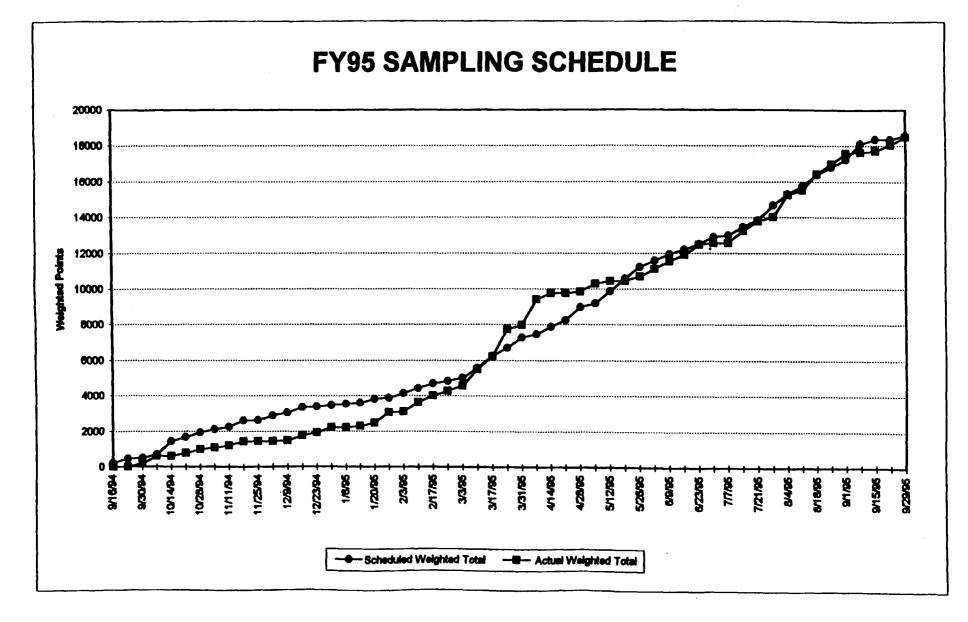


Auger Samples Taken

March 7, 1994

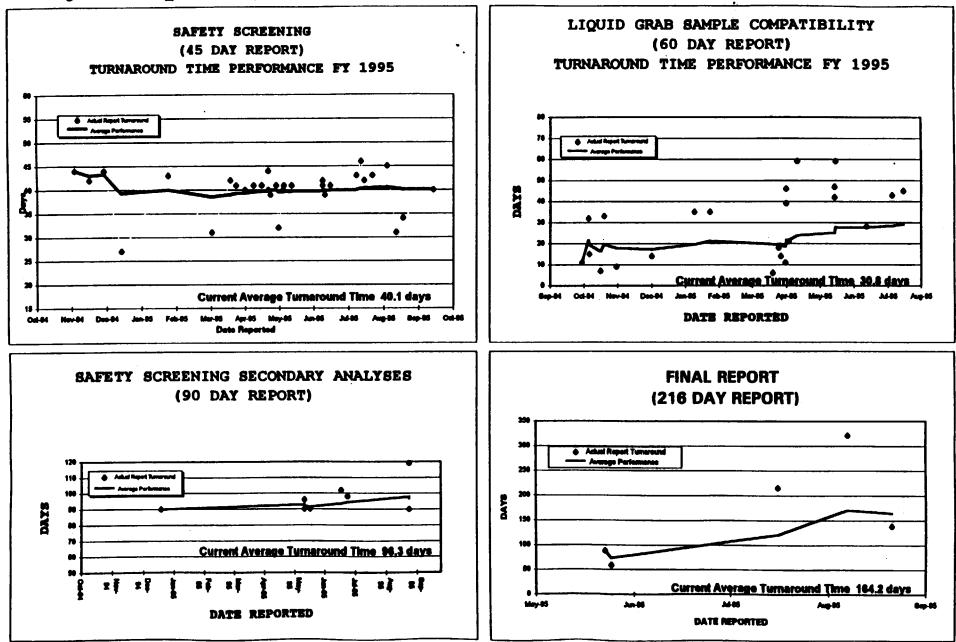


Sampling Schedule



XYZ2RP.XLS

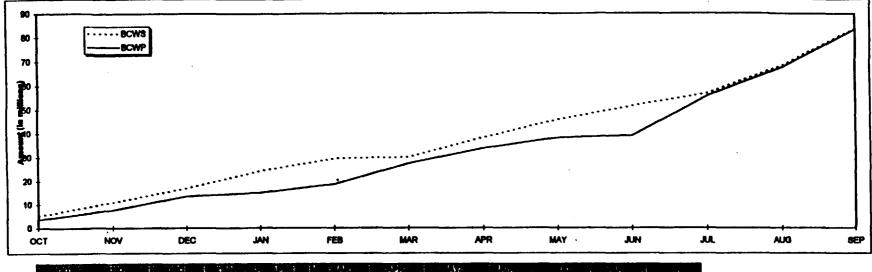
Analysis Reporting



T-W-R-S Characterization

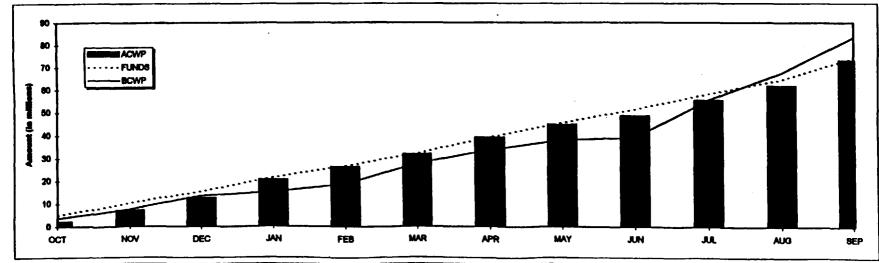
Cost and Schedule Performance

Schedule Variance



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5.4	10.0	17	24.4	20.7	30.1	36.3	45.7	<u>61.6</u>	57.0	06.4	<u>#3.7</u>
SCW/RINE 3.7	7.7	13.8	15.1	18.7	27.0	33.8	30.1	39.2	65.9	67.7	83.4

Cost Variance

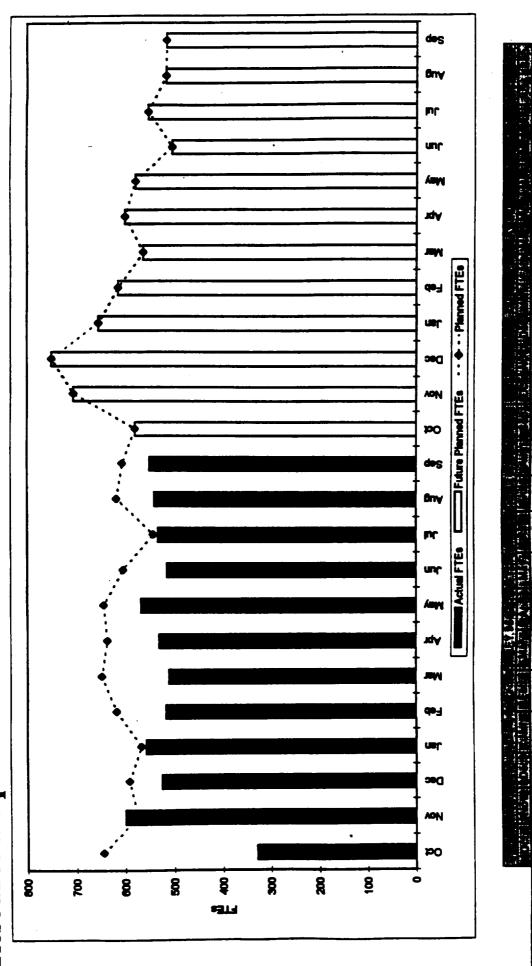


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5.2	10.4	15.4	21.5	26.7	32.3	39.4	45.8	61.8	58.6	64.7	74.3
ACWEINE 21	7.1	12.5	20.5	26.3	32	39.2	44.9	48.9	55.7	62.1	73.3
3.7	7.7	13.6	15.1	10.7	27.6	33.8	38.1	30.2	55.9	67.7	83.4

* Sept. figures are based on preliminary data.



Resource Requirements



Note; 1. FTE data includes FTEs associated with laboratory work which is billed on a per unit basis.

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FY 95 FTEs were normalized based on Change Request TWR-95-101.
 FTEs In FY 96 for Other Contractors and PO Contracts are estimates based on FY 95 rates.
 Sept. Rgures are based on profinitiony data.

NDICATE XL8

SITE MANAGEMENT SYSTEM

WESTINGHOUSE HANFORD COMPANY **1.1 TANK WASTE REMEDIATION SYSTEM**

September 95

EXPENSE COST PERFORMANCE

(Dollars in Millions)

		F	Y TO DAT	Έ			AT CO	COMMENTS			
WBS/TITLE	BUDGET COST		ACTUAL VARIANCE			BAC	EAC	FYSF	EXPT'D	PROJ'D	
			COST				1		FUNDS	C/O	
	WORK	WORK	WORK	SCHED	COST			ļ	FY95	SCOPE	
	SCHED	PERF	PERF					•	•••	(EAC-FYSF)	
(1130-0) CHARACTERIZA	TION										
WHC	72.0	71.9	62.3	-0.1	[~] 9.6	72.0	62.3	62.3	63.3	0.0	
PNL	9.6	9.4	9.2	-0.2	0.2	9.6	9.2	9.2	9.2	0.0	
LANL	1.1	1.1	1.0	0.0	0.1	1.1	1.0	1.0	1.0	0.0	
SNL	0.6	0.6	0.4	0.0	0.2	0.6	0.4	0.4	0.4	0.0	
ORNL	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.0	
TOTAL 1.1.2.4. (1130)	83.7	83.4	73.3	-0.3	10.1	83.7	73.3	73.3	74.3	0.0	
* Sept. figures are based											

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SITE MANAGEMENT SYSTEM

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WESTINGHOUSE HANFORD COMPANY **1.1 TANK WASTE REMEDIATION SYSTEM**

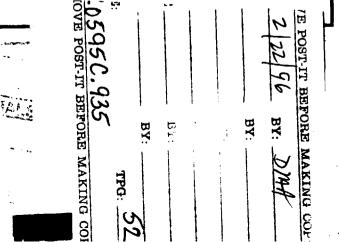
September 95

CENRTC COST PERFORMANCE

(Dollars in Millions)

	PROJECT TO DATE							COMMENTS			
WBS/TITLE		BUDGET		VARIANCE							
	COST		COST				ł				
	WORK	WORK	WORK	SCHED	COST	TOTAL	ACTUAL	COMMIT	PLANNE	UNCOM'TD	
	SCHED	PERF	PERF			B/A	(ACWP)	(P/O,W/O)		· · · · · · · · · · · · · · · · · · ·	
1130-0) CHARACTERIZATION											
WHC Activity for Curr Year Funded Equip	5.9	5.8	4.9	-0.1	0.9	6.1	4.9	0.8	0.4	0.0	
Activity for Prior Years Funded Equip	12.4	<u>10.9</u>	10.9		0.0	<u>12.6</u>	10.9	0.5	1.2	<u>0.0</u>	
S/T	18.3	16.7	15.8		0.0 0.9	18.7	15.8	1.3	1.6	0.0	
PNL											
Activity for Curr Year Funded Equip	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	1
Activity for Prior Years Funded Equip	3.1	3.3	2.9	0.2	0.4	<u>3.7</u>	2.9	<u>0.7</u>		<u>0.0</u>	
S/T	3.1	3.3	2.9	0.2	0.4	3.7	2.9	0.7	0.1	0.0	
TOTAL 1.1.2.4. (1130)	21.4	20.0	18.7	-1.4	1.3	22.4	18.7	2.0	1.7	0.0	1

Sept. figures are based on preliminary data. .



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