S

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 635349

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.	4. USQ Required?	5. Date
Supplemental [] Direct Revision [X] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void []	Clarence S. Homi, Evaluation and Planning, R2-12, 373-1097	[] Yes [X] No	09/12/96
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[] Yes (fill out Blk. 12b) [X] No (NA Blks. 12b, 12c, 12d)	N/A	N/A Design Authority/Cog. Engineer Signature & Date	N/A Design Authority/Cog. Engineer Signature & Date

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14b. Justification Details

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See attached distribution.

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3

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Cog. Eng. C.S. Homi [signature] 9/12/96 PE

ENGINEERING CHANGE NOTICE

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16. Design Verification Required	17. Cost Impact				18. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[ ] Yes	Additional	[ ] $	Additional	[ ] $	Improvement	[ ]
[X] No	Savings	[ ] $	Savings	[ ] $	Delay	[ ]

19. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 13. Enter the affected document number in Block 20.

SDD/DD	[ ]	Seismic/Stress Analysis	[ ]	Tank Calibration Manual	[ ]
Functional Design Criteria	[ ]	Stress/Design Report	[ ]	Health Physics Procedure	[ ]
Operating Specification	[ ]	Interface Control Drawing	[ ]	Spares Multiple Unit Listing	[ ]
Criticality Specification	[ ]	Calibration Procedure	[ ]	Test Procedures/Specification	[ ]
Conceptual Design Report	[ ]	Installation Procedure	[ ]	Component Index	[ ]
Equipment Spec.	[ ]	Maintenance Procedure	[ ]	ASME Coded Item	[ ]
Const. Spec.	[ ]	Engineering Procedure	[ ]	Human Factor Consideration	[ ]
Procurement Spec.	[ ]	Operating Instruction	[ ]	Computer Software	[ ]
Vendor Information	[ ]	Operating Procedure	[ ]	Electric Circuit Schedule	[ ]
OM Manual	[ ]	Operational Safety Requirement	[ ]	ICRS Procedure	[ ]
FSAR/SAR	[ ]	IEFD Drawing	[ ]	Process Control Manual/Plan	[ ]
Safety Equipment List	[ ]	Cell Arrangement Drawing	[ ]	Process Flow Chart	[ ]
Radiation Work Permit	[ ]	Essential Material Specification	[ ]	Purchase Requisition	[ ]
Environmental Impact Statement	[ ]	Fac. Proc. Samp. Schedule	[ ]	Tickler File	[ ]
Environmental Report	[ ]	Inspection Plan	[ ]		[ ]
Environmental Permit	[ ]	Inventory Adjustment Request	[ ]		[ ]

20. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
N/A		

21. Approvals

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Design Authority			Design Agent		
Cog. Eng. C.S. Homi	C S Homi	9/17/96	PE		
Cog. Mgr. J.W. Hunt	J W Hunt	9/17/96	QA		
QA			Safety		
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Other			Other		
			DEPARTMENT OF ENERGY		
			Signature or a Control Number that tracks the Approval Signature		
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FY 1996 Tank Waste Analysis Plan

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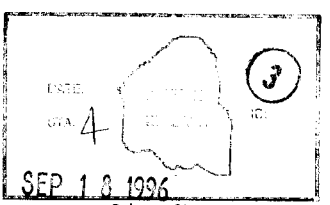

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LIST OF ACRONYMS

DOE	U.S. Department of Energy
DQO	Data Quality Objective
DST	Double-Shell Tank
ECN	Engineering Change Notice
FY	Fiscal Year
SST	Single-Shell Tank
TCP	Tank Characterization Plan
TCR	Tank Characterization Report
Tri-Party Agreement	Hanford Federal Facility Agreement and Consent Order
TWAP	Tank Waste Analysis Plan
TWRS	Tank Waste Remediation System

1.0 INTRODUCTION

This Tank Waste Analysis Plan (TWAP) describes the activities of the Tank Waste Remediation System (TWRS) Characterization Project to plan, schedule, obtain, and document characterization information on Hanford waste tanks. This information is required to meet several commitments of Programmatic End-Users and the *Hanford Federal Facility Agreement and Consent Order* (Ecology et al. 1994), also known as the Tri-Party Agreement. This TWAP applies to the activities scheduled to be completed in fiscal year 1996.

1.1 PROGRAM DQO REQUIREMENTS

Each TWRS engineering, operating, and safety program is charged with the responsibility for evaluating information needs to safely operate and monitor facilities that store, receive, retrieve, treat, or dispose of waste materials. Information required by each program is assembled and documented through the Data Quality Objective (DQO) process (EPA 1994). DQO process documentation defines information needs, information use, data quality, boundary requirements, and special handling requirements pertinent to sampling and analyses to be performed.

The TWRS Characterization Project assembles the requirements for information into specific instructions for sampling and analyses to produce the necessary information. DQOs and supplemental requirements documents are listed in the References, Section 5.0.

1.2 PROGRAMS SUPPORTED BY THIS TWAP

Current TWRS program needs are, in priority, to first address pertinent safety issues, then ongoing process activities, and finally disposal needs. The timing and priority of each of these activities may change as the overall program progresses. Priority changes will be reflected in revisions to tank specific Tank Characterization Plans (TCPs).

Elements of this TWAP are designed to satisfy requirements of the following safety, operating, and engineering programs:

- Safety Programs and those subordinate organizations addressing specific safety issues include Ferrocyanide (Meacham et al. 1995), Organic (Turner et al. 1995), Flammable Gas (McDuffie 1995), Vapor (Osborne et al. 1995), and generic Safety Screening (Dukelow et al. 1995 and Babad et al. 1995). DQOs as cited have been issued to address the information needed to support resolution of each of these safety issues.

- TWRS Plant Project is responsible for receipt of wastes from operating facilities, salt well pumping, and transfers of waste tank contents within the tank farms. A Compatibility DQO (Fowler 1995) has been issued which establishes decision rules used to evaluate important characteristics of wastes before transfers and acceptance for storage.

- Other programs include Retrieval, Pretreatment, and Disposal. Pretreatment and Disposal DQO (Slankas et al. 1995) and Strategy (Kupfer et al. 1995) plus the Retrieval DQO (Bloom et al. 1995) were issued in FY 1995.

1.3 OVERALL TANK WASTE GENERIC ANALYSIS REQUIREMENTS

Double Shell Tanks (DSTs) and Single Shell Tanks (SSTs) will be sampled and analyzed to provide data to mitigate and/or close safety issues. The *Tank Safety Screening Data Quality Objectives* (Babad et al. 1995 or Dukelow et al. 1995, depending on date of sampling), hereafter referred to as Safety Screening DQO, initiates the analyses for safety issues. The *Data Quality Objectives for Generic In-Tank Health and Safety Vapor Issue Resolution* (Osborne 1995), hereafter referred to as Vapor Issue DQO, also applies. The need for this DQO is assessed on a tank-by-tank basis.

To meet the sampling and analytical requirements for the Safety Screening DQO, a minimum of two vertical profiles of the waste will be obtained, one each from two widely-spaced risers. These profiles may be obtained using core, auger, or grab samples. The primary analytical requirements for the safety screening of a tank (Babad et al. 1995) are energetics, moisture (water), total alpha activity, and flammable gas concentrations. Dukelow et al. uses moisture not as a primary analyte, but for correction of energetics to a dry basis. Dukelow et al. also requires density measurement for conversion of total alpha to units of g/L. Secondary safety screening analyses may be required, depending upon results from the primary analyses. Secondary analyses may include total organic carbon, total cyanide and/or specific radionuclides.

Data may be needed for the Vapor Issue DQO to identify and quantify both flammable and toxic constituents of Hanford tank headspaces. Resolution of these two issues involves a sequence of sampling events and will be assessed on a tank-by-tank basis. The first step may involve a qualitative assessment of a tank's headspace vapor flammability. Further samples may be taken to determine the composition and concentration of specific flammable constituents. Following resolution of the flammability issue, tank headspace samples may be taken to assess vapor toxicity. Samples are taken from a single location at or near the midpoint of the tank's headspace, below the riser.

1.4 TANK WASTE GENERIC ANALYSIS REQUIREMENTS FOR SPECIFIC TANK GROUPS

Tanks on the Ferrocyanide Watch List will be sampled and analyzed as per *Data Requirements for the Ferrocyanide Safety Issue Developed Through the Data Quality Objectives Process* (Meacham et al. 1995), hereafter referred to as Ferrocyanide DQO. Organic Watch List SSTs sampling and analysis activities are addressed in *Data Quality Objective to Support Resolution of the Organic Complexant Safety Issue* (Turner et al. 1995), hereafter referred to as Organic DQO. Flammable gas requirements for DST core samples are discussed in *Data Requirements for Core Sample Analysis Developed Through the Data Quality*

Objectives Process (McDuffie 1995), hereafter referred to as Flammable Gas DQO. Potential waste compatibility analytical needs to address transfer into and within the DST system are addressed in *Data Quality Objective for Waste Compatibility Program* (Fowler 1995). Pretreatment and disposal data needs are discussed in *Data Needs and Attendant Data Quality Objectives for Tank Waste Pretreatment and Disposal* (Slankas et al. 1995) and *Strategy for Sampling Hanford Site Tank Wastes for Development of Disposal Technology* (Kupfer et al. 1995). Retrieval needs are discussed in *Characterization Data Needs for Development, Design, and Operation of Retrieval Equipment Developed Through the Data Quality Objective Process* (Bloom and Nguyen 1995). The *Historical Model Evaluation Data Requirements* DQO (Simpson and McCain 1995), hereafter referred to as the Historical DQO, identifies information needed to evaluate the quality of models of tank composition developed from process records.

The Ferrocyanide DQO is used as a guide for characterizing tanks on the Ferrocyanide Watch List. It concludes that the most reliable information will be obtained from core samples and that an average of two core samples taken from risers separated by maximum distances will provide characterization data of sufficient quality to enable decision makers to confidently resolve the safety issues associated with these tanks. Primary parameters, fuel concentration (energetics), moisture content, nickel content and nickel/fuel will be used to support determination of the safety status of a tank.

The Flammable Gas DQO is primarily concerned with the potential for retained gas in DST Watch List tanks. Physical, chemical, and radiochemical measurements of core samples are additional concerns.

The Organic DQO focuses on tanks that contain or may contain, based on safety screening, organic compounds above the established decision thresholds. It identifies the information needed to assess if tanks should be removed from, not removed from, or added to the Organic Watch List. As with the ferrocyanide DQO effort, the sampling and analyses prescribed by this DQO will support safety classification of these tanks. The sampling requirements of the organic DQO are for a minimum of two profiles separated to the maximum extent possible by existing risers. Application of this DQO to non-Organic Watch List tanks is discussed in *Preliminary Safety Criteria for Organic Watch List Tanks at the Hanford Site* (Webb et al. 1995)

The Pretreatment Strategy has prioritized 47 SSTs and 12 DSTs for sampling and characterization to support key TWRS decisions associated with both pretreatment and vitrification. The strategy outlines the process testing that will be performed on waste samples. *Only the sample material is provided by the Characterization project. No analyses are required.* Tank sample selections based on historical sources are being confirmed by the Historical DQO. In addition to the tanks specified in the strategy, sample material from other tanks may be supplied to the pretreatment/disposal programs to augment their information base.

The Historical DQO has identified 20 bounding tanks, plus alternatives to each. The DQO identifies the acquisition and analysis of samples from each of these tanks to determine the range of composition encountered in each of the major waste types which have contributed to the overall tank contents. The identified analyses provide measurement of primary cations, anions, and radionuclides that bound waste processing and safe storage. The current

version of the DQO does not specify a requirement for number of samples or a confidence requirement. In addition to the primary bounding tanks identified in the DQO, the historical evaluation analyses may be applied to other tanks to augment the information available regarding waste type composition.

The DQO, *Characterization Data Needs for Development, Design, and Operation of Retrieval Equipment Developed Through the Data Quality Objective Process* (Bloom and Nguyen 1995), requires sample material from Tank 241-AZ-101 for determining several physical properties. Obtaining sample material from other tanks is not planned at this time.

1.5 TANK WASTE CHARACTERIZATION BASIS

The *Tank Waste Characterization Basis* (Brown et al. 1995) was developed to prioritize tanks for core sampling and to develop a core sampling schedule. The Basis produces technical justification and priorities for core sampling and analyses of a group of tanks. From the group of Basis tanks, the schedule applies operational constraints to determine specific tanks to be sampled. The TWAP is then produced based on the resulting schedule. Data requirements that are met by methods other than core sampling are integrated into the overall schedule. Information gained from the sampling and analysis effort is subsequently used to update the Basis document. The Characterization Basis prioritization process was based on the following seven issues:

- Safety Screening
- Historical
- Ferrocyanide
- Organic
- Flammable Gas
- Retrieval
- Pretreatment

The Safety Screening DQO (Babad et al. 1995) and Pretreatment Strategy (Kupfer et al. 1995) were used for prioritization on all tanks. The Historical DQO was used for all SSTs even though the calculated priority value was zero on many tanks. *SST tank specific TCPs reflect the use of the Historical DQO for prioritization purposes, but application of DQO sampling and analysis requirements are applied for specifically identified tanks only.*

1.6 TWAP CONTENTS

This FY 1996 update of the Tank Waste Analysis Plan outlines in Sections 2.0, 3.0, and 4.0, the following documents to be produced in FY 1996:

- Tank Characterization Plans (TCPs).
- Tank Characterization Reports (TCRs).
- Sampling schedules (FY 1996 and outyears).

2.0 TANK CHARACTERIZATION PLAN

The Tank Characterization Plan (TCP) is the program management plan for a specific tank. It provides an at-time-of-publication schedule of tank characterization activities and a summary of those activities. Past characterization activities are also discussed.

2.1 BASIS FOR TANK CHARACTERIZATION PLANS

The basis for selecting tanks to be characterized is resolution of immediate safety issues, verification of assumptions to support safety screening strategies, confirmation of historical data and models, and obtaining of waste samples for process development and testing. The outline for a TCP is shown in Appendix A.

2.2 TANK CHARACTERIZATION PLAN LIST

Appendix B contains a listing of specific tank TCPs which are attached as separately released documents and submitted for approval. The TCPs apply to the same tanks for which Tank Characterization Reports (TCRs) will be prepared. Each TCP has been assigned a supporting document number and is issued as a stand-alone document. These plans are provided as part of Tri-Party Agreement milestone M44-02B.

3.0 TANK CHARACTERIZATION REPORT

3.1 PURPOSE AND CONTENT OF TANK CHARACTERIZATION REPORTS

The Tank Characterization Report (TCR) addresses all currently developed characterization information about a waste tank and is provided for the further use of end users and stakeholders. The format is standardized to facilitate searches for specific information. The document is built through an iterative process. Available historical records are augmented by results

of current activities (e.g., sampling and analyses since May 1989) and earlier verified data. The document includes a comparison of the current analytical data and historical estimates of chemical inventory and the results of that evaluation. The TCR identifies DQO and revision numbers applicable at the time the information was gathered.

Issued TCRs will be updated quarterly as needed due to addition and/or removal of tank wastes and as new information is obtained. The outline of a TCR is in Appendix C.

3.2 TCRS SCHEDULED FOR FY 1996

Appendix D is a list, identical in tanks to Appendix B, of 40 TCRs identified to support Tri-Party Agreement Milestone M-44-09. The FY 1996 Multi-Year Program Plan supports only 21 of these TCRs to be issued in FY 1996. It is expected, however, that all 40 TCRs will be submitted in FY 1996 and every effort is being made to accomplish that goal. The listing of TCRs includes those tanks for which sampling and analysis efforts were completed in fiscal year 1995 but were not included in fiscal year 1995 issued TCRs. Some information generated in fiscal year 1996 will not reach documentation in TCRs until fiscal year 1997.

The listed 40 TCRs include only 12 of the 28 tanks which have come to be referred to as the High Priority Tanks. Tables 9-2 and 9-4 of the Tank Waste Characterization Basis (Brown et al. 1995) published in August 1995, identify 28 High Priority Tanks for core sampling, tanks for which it is believed will provide optimal information from sampling and analysis in support of programmatic needs. Due to constraints described below, these 28 tanks have not all been sampled prior to the sampling of other tanks.

Six of the 28 High Priority Tanks were originally scheduled for push mode core sampling. Two of these six tanks have been sampled, B-104, followed by S-107. The other four of the six , AW-101, AN-103, AN-104, and AN-105, require push mode sampling using sampling truck #1 with the retained gas sampler (RGS). The RGS became available in January 1996. In order to maintain effective use of sampling crews and systems while awaiting deployment of the RGS, four tanks not on the High Priority list were push mode sampled, B-203, B-204, BX-104, and BX-112. Currently, AW-101 is being push mode sampled with the RGS. The results of this sampling effort will be published in a revision to the AW-101 TCR originally produced in FY 1995. The other three tanks requiring RGS will be sampled following completion of AW-101, but TCRs will not be produced until FY 1997.

The other 22 High Priority tanks were originally scheduled for rotary mode core sampling. Due to subsequently generated flammable gas safety concerns, rotary mode core sampling is not currently authorized in any tanks. However, rotary mode core sampling tests completed on BY-108 and BY-110 in October 1995 revealed that some waste types previously thought to require rotary core sampling, could indeed, be sampled using push mode core sampling instead. Therefore, 10 of the other 22 tanks have been push mode core sampled, with TCRs to be produced in FY 1996 (BY-104, BY-105, BY-106, BY-108, BY-110, S-101,S-102, U-105, U-107, and U-109). Tank S-110 has also been push

mode core sampled and U-108 is currently being sampled. However, TCRs for tanks S-110 and U-108 will not be produced until FY 1997.

The remaining 10 of the other 22 High Priority tanks are still considered to require rotary mode core sampling which will not become authorized until approval of a safety analysis and modifications to the rotary mode core sampling systems. This authorization is currently expected in August 1996. However, no sampling results will become available in TCRs until FY 1997. Until rotary mode core sampling can be resumed and the remaining High Priority tanks sampled, alternate tanks, also of high value but not on the list of 28 High Priority tanks have been designated for push mode core sampling (Eberlein 1996).

The following is additional clarification of the TCRs to be produced in FY 1996. Although not prioritized in the core sampling scope of the Tank Waste Characterization Basis (Brown et al. 1995), 18 tanks will have TCRs produced based on grab and/or auger samples, sampling conducted to permit efficient use of sampling crews. Six other tanks, B-101, B-106, BX-103, BX-109, C-103, and SY-103, will have TCRs produced based on push mode core sampling conducted prior to the August 1995 publication of the Tank Waste Characterization Basis (Brown et al. 1995).

3.3 CHARACTERIZATION FOCUS

Analyses currently in progress are expected to provide sufficient assurance that interim safe storage and later operations, to include retrieval, can be safely performed. When final decisions have been made on the mode of retrieval, further evaluation will be required to assure safety of retrieval operations. Complete characterization of tank waste is likely to not be completed until the waste is retrieved for Pretreatment Processing. At that time, tank contents will theoretically have become homogenized.

3.4 DATA RESTRICTION FOR TCR

Tri-Party Agreement milestone change number M-44-93-01 states: "Because data obtained prior to May 1989 did not have quality assurance and quality control assured under the TPA, acceptable characterization data will be based on some sampling and analysis of each waste phase for each DST and SST as specified through the DQO process". Therefore, pre-May 1989 data alone, will not constitute an acceptable TCR; although, such data should be discussed as appropriate. Later solid/liquid phase analyses will be based on core and auger samples, pure liquid phase on grab samples, and vapor phase on vapor samples.

4.0 SCHEDULES

4.1 OVERALL SAMPLING SCHEDULE

The sampling schedule (Stanton 1996), Appendix E, was developed based on the Tri-Party Agreement milestone M-44-09 which calls for issuing TCRs in accordance with approved TCPs during FY 1996 and beyond to fiscal year 2000. This Level 1 schedule is consistent with the program management as described in the Tank Waste Characterization Basis (Brown et al. 1995). The schedule is subject to change due to unexpected operational constraints, sampling resource availability, analytical laboratory resource availability, and changes in programmatic priorities.

4.2 DEVIATIONS AND CHANGE CONTROL

Scheduled sampling events, the potential for need of issuance of new or revised TCPs, the production of TCRs, and the order in which these events occur are subject to change because of shifting priorities, resource availability, and unexpected operational constraints. It is the intent of the TWRS Characterization Project, however, to accomplish the scope of work indicated by the schedule, within the planned time period. Significant programmatic deviations and changes will be documented by controlled revisions to this plan. Such revisions will be transmitted as Engineering Change Notices (ECNs). These ECNs will provide reasons for the schedule change and the impact to the original schedule. Minor changes such as adding, deleting, or changing sampling order of tanks will be addressed at unit managers meetings, and as required, will be documented by ECNs.

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APPENDICES

TANK CHARACTERIZATION PLAN CONTENT

1.0 INTRODUCTION

2.0 PROGRAM ELEMENTS REQUIRING INFORMATION FOR 241-X-XXX

- 2.1 GENERAL SAFETY ISSUES
- 2.2 SPECIFIC SAFETY ISSUES
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4-1 Integrated DQO Requirements

FISCAL YEAR 1996 TANK CHARACTERIZATION PLAN LIST

Tank	Planned DQO Analyses*	TCP Document Number
A-102	6	WHC-SD-WM-TP-358 R4
AN-101	6, 7	WHC-SD-WM-TP-413 R3
AN-102	6, 7	WHC-SD-WM-TP-216 R4
AN-106	6	WHC-SD-WM-TP-407 R3
AN-107	6, 7	WHC-SD-WM-TP-215 R4
AP-104	6, 7, 9	WHC-SD-WM-TP-414 R3
AP-108	6, 7	WHC-SD-WM-TP-419 R3
AY-101	6, 7, 9	WHC-SD-WM-TP-406 R3
B-101	6	WHC-SD-WM-TP-350 R4
B-104	5, 6	WHC-SD-WM-TP-349 R4
B-106	5, 6	WHC-SD-WM-TP-353 R4
B-203	6	WHC-SD-WM-TP-354 R3
B-204	6	WHC-SD-WM-TP-355 R3
BX-103	6	WHC-SD-WM-TP-339 R4
BX-104	3, 6	WHC-SD-WM-TP-296 R4
BX-106	6, 7	WHC-SD-WM-TP-240 R4
BX-109	5, 6	WHC-SD-WM-TP-338 R4
BX-110	3, 5, 6	WHC-SD-WM-TP-382 R3
BX-112	5, 6	WHC-SD-WM-TP-341 R3
BY-104	2, 5, 6	WHC-SD-WM-TP-230 R3
BY-105	2, 5, 6, 7	WHC-SD-WM-TP-218 R4
BY-106	2, 3, 5, 6, 7	WHC-SD-WM-TP-217 R4
BY-108	2, 3, 5, 6	WHC-SD-WM-TP-275 R4
BY-110	2, 3, 5, 6	WHC-SD-WM-TP-279 R4

* 1=Flammable gas; 2=Ferrocyanide; 3=Organic; 4=Pretreatment; 5=Historical; 6=Safety screening; 7=Compatibility; 8=Retrieval; 9=Evaporator; 10=High Heat

FISCAL YEAR 1996 TANK CHARACTERIZATION PLAN LIST (cont.)

Tank	Planned DQO Analyses*	TCP Document Number
C-103	3, 6	WHC-SD-WM-TP-207 R5
C-106	6, 7, 10	WHC-SD-WM-TP-212 R4
C-108	2, 6	WHC-SD-WM-TP-211 R5
C-204	6	WHC-SD-WM-TP-307 R4
S-101	5, 6	WHC-SD-WM-TP-386 R3
S-102	3, 5, 6	WHC-SD-WM-TP-238 R3
S-107	5, 6	WHC-SD-WM-TP-348 R4
SX-108	5, 6	WHC-SD-WM-TP-405 R3
SY-103	1, 6	WHC-SD-WM-TP-197 R4
T-106	6	WHC-SD-WM-TP-366 R3
T-108	5, 6	WHC-SD-WM-TP-367 R3
T-109	5, 6	WHC-SD-WM-TP-368 R3
TX-107	6	WHC-SD-WM-TP-420 R3
U-105	3, 5, 6, 7	WHC-SD-WM-TP-289 R3
U-107	3, 5, 6, 7	WHC-SD-WM-TP-244 R3
U-109	3, 5, 6, 7	WHC-SD-WM-TP-316 R3

* 1=Flammable gas; 2=Ferrocyanide; 3=Organic; 4=Pretreatment; 5=Historical; 6=Safety screening; 7=Compatibility; 8=Retrieval; 9=Evaporator; 10=High Heat

TANK CHARACTERIZATION REPORT CONTENT

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- 5.2 COMPARISON OF RESULTS FROM DIFFERENT SAMPLING EVENTS
- 5.3 TANK WASTE PROFILE
- 5.4 COMPARISON OF ANALYTICAL AND TRANSFER HISTORY INFORMATION
- 5.5 EVALUATION OF PROGRAM REQUIREMENTS
  - 5.5.1 Safety Evaluation
  - 5.5.2 Operational Evaluations (if applicable)
  - 5.5.3 Environmental Evaluation (if applicable)
  - 5.5.4 Process Development Evaluation (if applicable)
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7.0 REFERENCES

APPENDICES (Sampling Event Data, Analytical Procedures, Photographs)(if applicable)

TANK CHARACTERIZATION REPORTS PLANNED FOR FISCAL YEAR 1996

Tank	Sampling Event Type
A-102	Auger, Vapor
AN-101	Grab
AN-102	Grab
AN-106	Grab
AN-107	Grab, Vapor
AP-104	Grab
AP-108	Grab
AY-101	Grab
B-101	Push
B-104	Push
B-106	Push
B-203	Push
B-204	Push
BX-103	Push
BX-104	Push, Vapor
BX-106	Auger, Grab
BX-109	Push
BX-110	Auger, Rotary in 10/98
BX-112	Push, Auger
BY-104	Push, Vapor
BY-105	Rotary[1], Grab, Vapor
BY-106	Rotary/Push[2], Vapor
BY-108	Rotary/Push[3], Auger, Vapor
BY-110	Rotary/Push[4], Vapor

1. One partial core: started in push mode, switched to rotary mode midway, then switched back to push. Incomplete core recovery.
2. Two rotary and one push cores taken.
3. Four rotary and two push cores taken.
4. Three rotary, six push, and one unspecified cores taken.

TANK CHARACTERIZATION REPORTS PLANNED FOR FISCAL YEAR 1996 (Cont.)

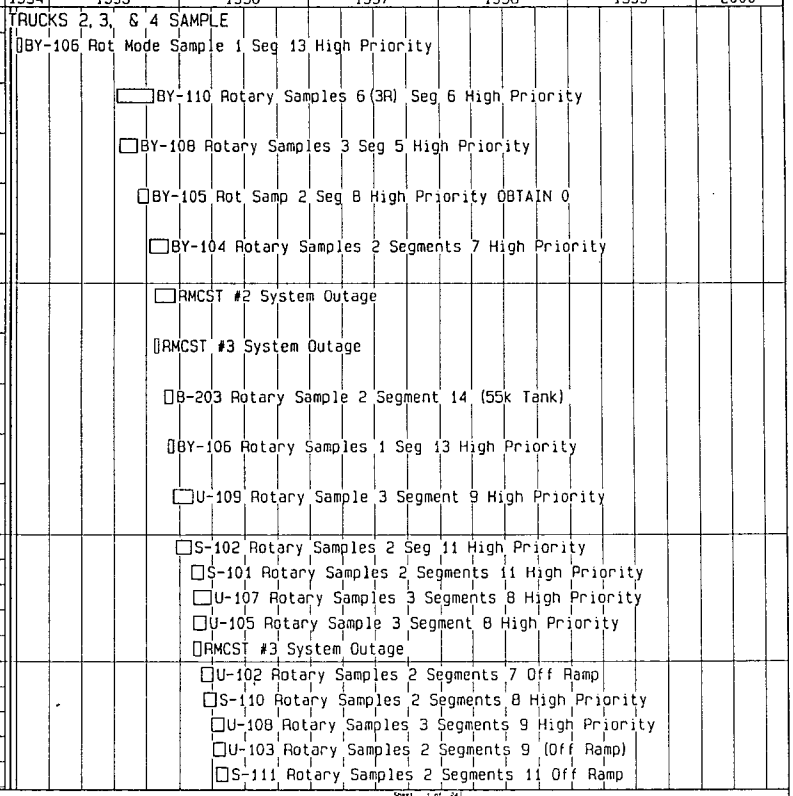
Tank	Sampling Event Type
C-103	Push, Vapor
C-106	Grab, Vapor
C-108	Auger, Vapor
C-204	Auger
S-101	Push, Vapor
S-102	Push, Vapor
S-107	Push
SX-108	Auger, Rotary in 10/97
SY-103	Push[1]
T-106	Auger
T-108	Auger
T-109	Auger
TX-107	Auger
U-105	Push[2], Grab, Vapor
U-107	Push[2], Grab, Vapor
U-109	Push, Grab, Vapor

1. One core only.
2. Partial core recoveries.

LEVEL 1 TANK SAMPLING SCHEDULE

A LEVEL 1 BASELINE SAMPLING SCHEDULE (Stanton 1996) DATED MARCH 4, 1996, FOLLOWS. THIS SCHEDULE IS SUBJECT TO CHANGE BASED ON UNEXPECTED OPERATIONAL CONSTRAINTS, CHANGED PRIORITIES, OR RESOURCE AVAILABILITY.

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
RS04-4	30OCT94	14OCT94	10
Completed AS 20OCT94 AF 25JAN95			
RS20-4	10JUL95	20OCT95	75
Completed AS 10JUL95 AF 20OCT95			
RS25-4	17JUL95	4SEP95	36
Complete AS 14JUL95 AF 18AUG95			
RS01-4	6SEP95	6OCT95	23
Completed AS 21AUG95 AF 06OCT95			
RS03-4	9OCT95	29NOV95	36
Completed AS 06OCT95 AF 15NOV95			
RS08-4	23OCT95	18DEC95	39
Completed AS 23OCT95 AF 29DEC95			
RS90-4	23OCT95	3NOV95	10
Completed AS 02OCT95 AF 19OCT95			
RS47-4	20NOV95	13DEC95	16
Completed AS 19OCT95 AF 14DEC95			
RS23-4	30NOV95	15DEC95	12
Completed AS 16NOV95 AF 19DEC95			
RS40-4	14DEC95	6FEB96	32
Completed AS 15DEC95 AF 19JAN96			
RS58-4	21DEC95	1FEB96	24
RS35-4	2FEB96	7MAR96	24
RS30-4	7FEB96	28MAR96	36
RS39-4	7FEB96	13MAR96	25
RSDE-4	7FEB96	28FEB96	15
RS80-4	29FEB96	2APR96	24
RS65-4	8MAR96	10APR96	24
RS37-4	29MAR96	2MAY96	25
RS36-4	3APR96	6MAY96	24
RSAA-4	11APR96	14MAY96	24



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

REST

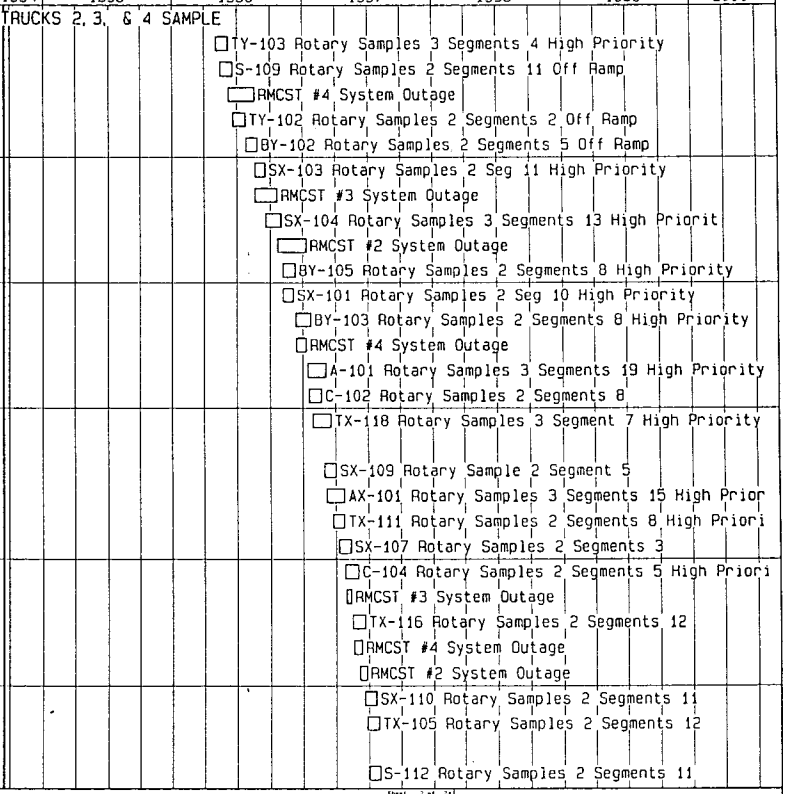
Sheet 1 of 24

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
RS21-4	3MAY96	6JUN96	24
RS64-4	15MAY96	18JUN96	24
RS07-4	7JUN96	19AUG96	50
RS72-4	19JUN96	24JUL96	24
RS56-4	25JUL96	27AUG96	24
RS44-4	20AUG96	17SEP96	20
RS88-4	20AUG96	210CT96	44
RS11-4	18SEP96	310CT96	32
RS89-4	220CT96	10JAN97	50
RS41-4	5NOV96	10DEC96	24
RS45-4	6NOV96	5DEC96	20
RS29-4	11DEC96	22JAN97	24
RS0A-4	12DEC96	10JAN97	15
RS34-4	13JAN97	5MAR97	36
RS87-4	17JAN97	21FEB97	24
RS24-4	27JAN97	19MAR97	36
TX-118 Sludge\saltcake - 1 core saltcake			
RS12-4	28FEB97	2APR97	24
RS38-4	6MAR97	24APR97	36
RS73-4	24MAR97	24APR97	24
RS10-4	9APR97	12MAY97	24
RS48-4	25APR97	2JUN97	24
RSCA-4	29APR97	12MAY97	10
RS78-4	15MAY97	20JUN97	24
RS08-4	19MAY97	11JUN97	15
RS92-4	5JUN97	25JUN97	15
RS13-4	18JUN97	22JUL97	24
RS32-4	25JUN97	29JUL97	24
TX 105 Sludge\saltcake - 1 core saltcake			
RS43-4	30JUN97	1AUG97	24



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Plug Activity

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REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

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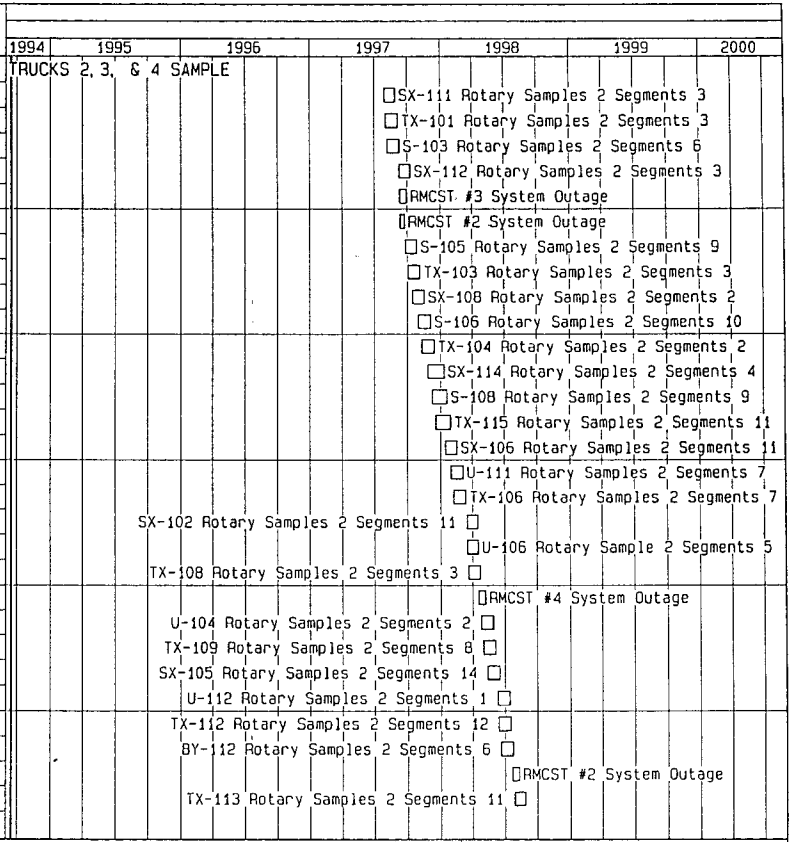
AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
RS14-4	29JUL97	29AUG97	24
RS83-4	1AUG97	5SEP97	24
RS59-4	6AUG97	10SEP97	24
RS15-4	9SEP97	100CT97	24
RSCB-4	10SEP97	30SEP97	15
RSBA-4	11SEP97	24SEP97	10
RS60-4	25SEP97	280CT97	24
RS84-4	30CT97	5NOV97	24
RS46-4	150CT97	17NOV97	24
RS61-4	310CT97	5DEC97	24
RS67-4	10NOV97	15DEC97	24
RS16-4	26NOV97	12JAN98	24
RS63-4	8DEC97	20JAN98	24
RS77-4	18DEC97	30JAN98	24
RS31-4	15JAN98	17FEB98	24
RS05-4	30JAN98	6MAR98	24
RS68-4	6FEB98	13MAR98	24
RS33-4	16MAR98	16APR98	24
RS06-4	17MAR98	17APR98	24
RS69-4	20MAR98	22APR98	24
RSDC-4	17APR98	7MAY98	15
RS85-4	24APR98	29MAY98	24
RS70-4	30APR98	4JUN98	24
RS42-4	12MAY98	16JUN98	24
RS86-4	9JUN98	14JUL98	24
RS74-4	12JUN98	17JUL98	24
RS28-4	19JUN98	24JUL98	24
RS88-4	21JUL98	10AUG98	15
RS75-4	27JUL98	27AUG98	24



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 6MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Prog Activity

REST

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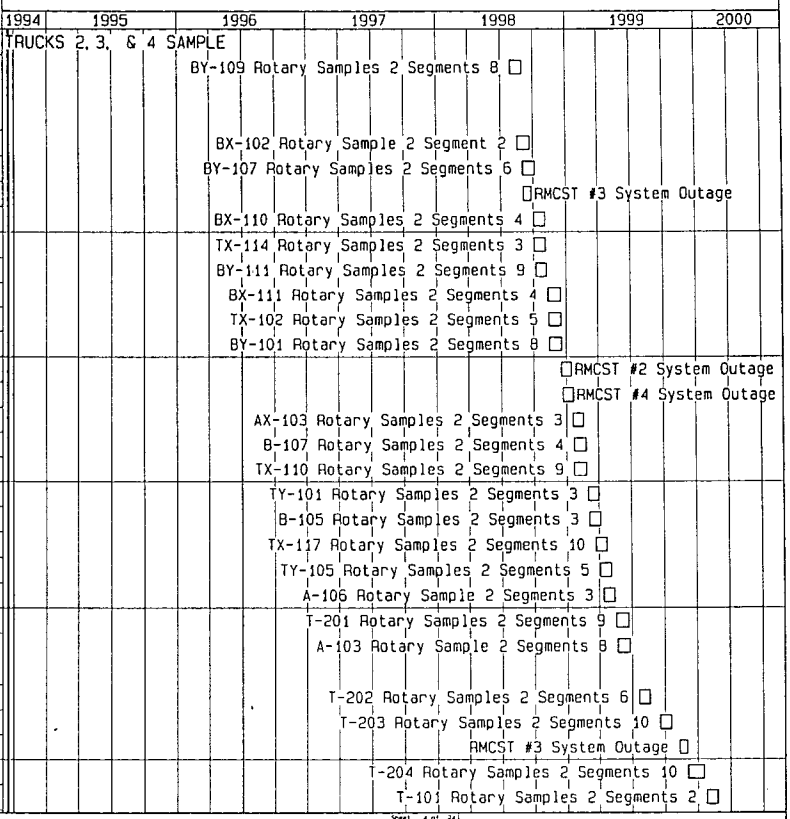
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
RS93-4	29JUL98	31AUG98	24
BY-109 Sludge\saltcake - 2 cores Additional sludge\saltcake - 1 core			
RS09-4	17AUG98	21SEP98	24
RS26-4	1SEP98	60CT98	24
RSCC-4	3SEP98	25SEP98	15
RS50-4	10CT98	3NOV98	24
RS76-4	20CT98	4NOV98	24
RS27-4	70CT98	6NOV98	23
RS51-4	10NOV98	15DEC98	24
RS66-4	12NOV98	17DEC98	24
RS49-4	13NOV98	18DEC98	24
RSBC-4	16DEC98	15JAN99	15
RSDD-4	21DEC98	20JAN99	15
RS52-4	18JAN99	18FEB99	24
RS54-4	21JAN99	25FEB99	24
RS71-4	21JAN99	25FEB99	24
RS22-4	1MAR99	1APR99	24
RS55-4	4MAR99	6APR99	24
RS79-4	22MAR99	22APR99	24
RS94-4	2APR99	5MAY99	24
RS53-4	13APR99	14MAY99	24
RS18-4	17MAY99	21JUN99	24
RS57-4	21MAY99	25JUN99	24
A-103 Sludge\saltcake - 1000 ml scaling			
RS19-4	19JUL99	19AUG99	24
RS81-4	15SEP99	180CT99	24
RSCD-4	10NOV99	2DEC99	15
RS82-4	30EC99	18JAN00	24
RS17-4	25JAN00	25FEB00	24



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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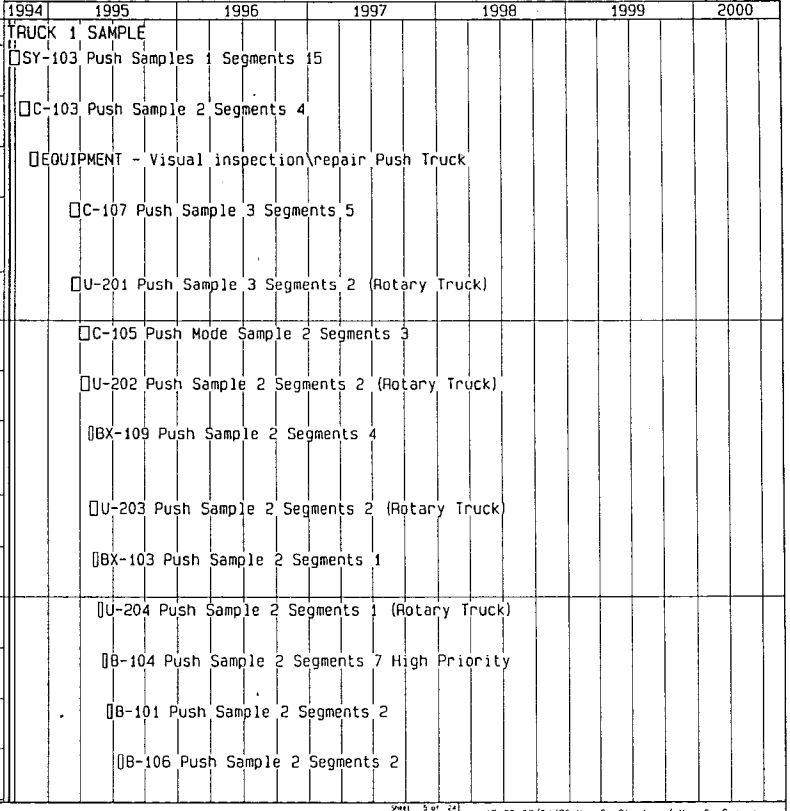
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

Sheet 4 of 24

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
PS02-4	15SEP94	12OCT94	20
COMPLETED AS 31AUG94 AF 30CT94			
PS05-4	13OCT94	9NOV94	20
COMPLETED AS 20OCT94 AF 9FEB95			
PS25-10	10NOV94	2DEC94	15
Completed AS 2NOV94 AF 9JAN95			
PS68-4	1MAR95	28MAR95	20
C-107 Sludge\saltcake sample - 2000 ml sca Additional sludge\saltcake 1000ml ad			
Completed AS 1MAR95 AF 10MAR95			
PS16-4	6MAR95	31MAR95	20
Completed AS 8MAR95 AF 21MAR95			
PS25-4	29MAR95	25APR95	20
Completed AS 13MAR95 AF 23MAR95			
PS17-4	3APR95	26APR95	18
Completed AS 21MAR95 AF 24MAR95			
PS65-4	26APR95	5MAY95	8
BX-109 Sludge\saltcake - 1000 ml scaling Additional sludge\saltcake - 200 ml			
Completed AS 27MAY95 AF 19MAY95			
PS18-4	27APR95	19MAY95	17
Completed AS 27MAR95 AF 3APR95			
PS60-4	8MAY95	18MAY95	9
Completed AS 22MAY95 AF 30MAY95			
PS19-4	22MAY95	1JUN95	9
Completed AS 3APR95 AF 6APR95			
PS08-4	2JUN95	14JUN95	9
Completed AS 31MAY95 AF 14JUN95			
PS48-4	15JUN95	28JUN95	10
Completed AS 15JUN95 AF 27JUN95			
PS50-4	17JUL95	28JUL95	10
Completed AS 29JUN95 AF 15JUL95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

TEST

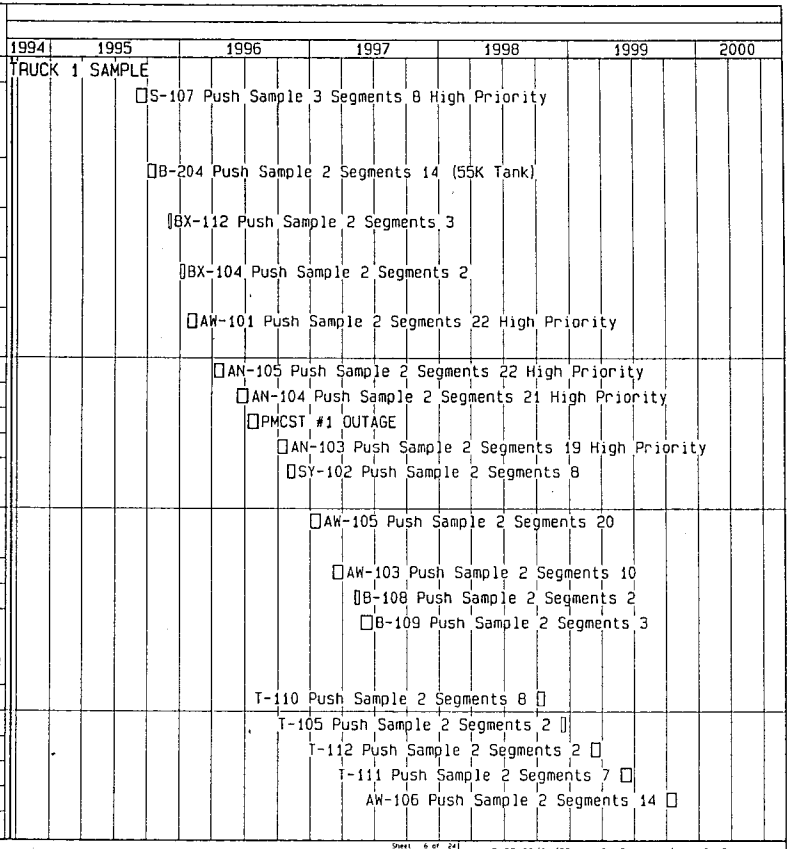
Sheet 1 of 24

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
PS13-4	31AUG95	28SEP95	21
S-107 Sludge\saltcake 1000 ml scaling Completed AS 14AUG95 AF 30SEP95			
PS67-4	20OCT95	23OCT95	16
Completed AS 60CT95 AF 190CT95			
PS64-4	29NOV95	5DEC95	5
Completed AS 21DEC95 AF 27DEC95			
PS61-4	2JAN96	12JAN96	9
Completed AS 2JAN96 AF 6JAN96			
PS03-4	22JAN96	16FEB96	20
AW-101 Supernatant - 5500 ml			
PS26-4	8APR96	3MAY96	20
PS31-4	10JUN96	9JUL96	20
PS06-4	10JUL96	6AUG96	20
PS33-4	10CT96	280CT96	20
PS55-4	290CT96	18NOV96	15
SY-102 Pretreatment sludge only - 150 g			
PS41-4	2JAN97	29JAN97	20
AW-105 Supernatant - 850 ml			
PS10-4	6MAR97	2APR97	20
PS51-4	6MAY97	19MAY97	10
PS63-4	23MAY97	24JUN97	20
B-109 Sludge\saltcake 1000 ml scaling Additional sludge\saltcake 400 ml re			
PS34-4	10CT98	210CT98	15
PS15-4	7DEC98	18DEC98	10
PS56-4	1MAR99	26MAR99	20
PS69-4	24MAY99	22JUN99	20
PS04-4	10CT99	280CT99	20



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

TEST

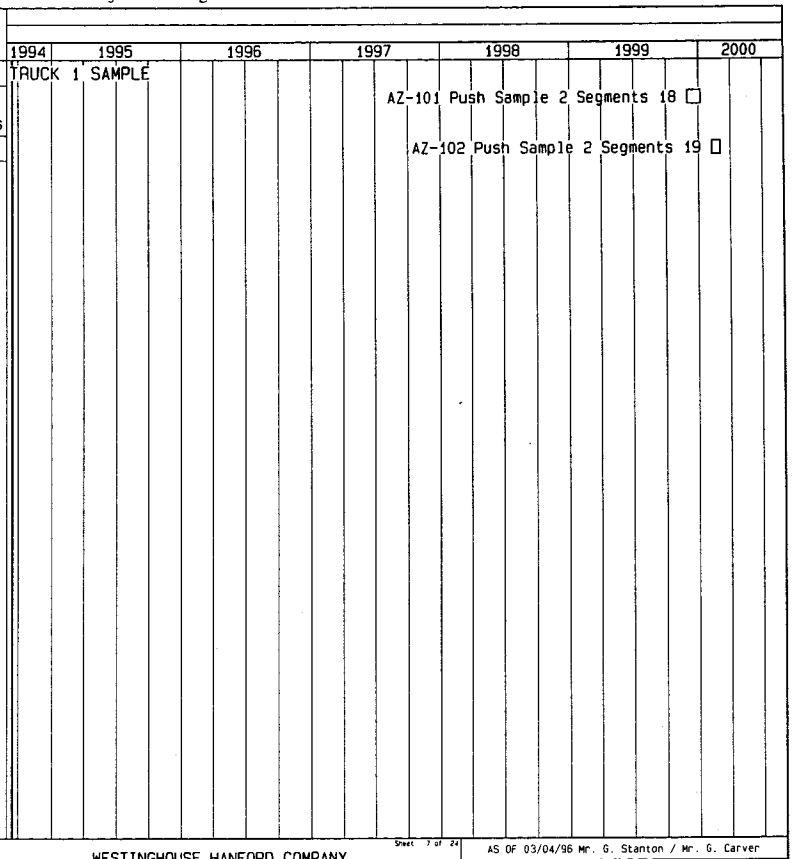
Sheet 6 of 24

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
PS43-4	30NOV99	7JAN00	20
AZ-101 Additional supernatant - 4.0 liters			
PS23-4	7FEB00	3MAR00	20



Plot Date 6MAR96
Data Date 15SEP94
Project Start 1OCT93
Project Finish 6MAY00

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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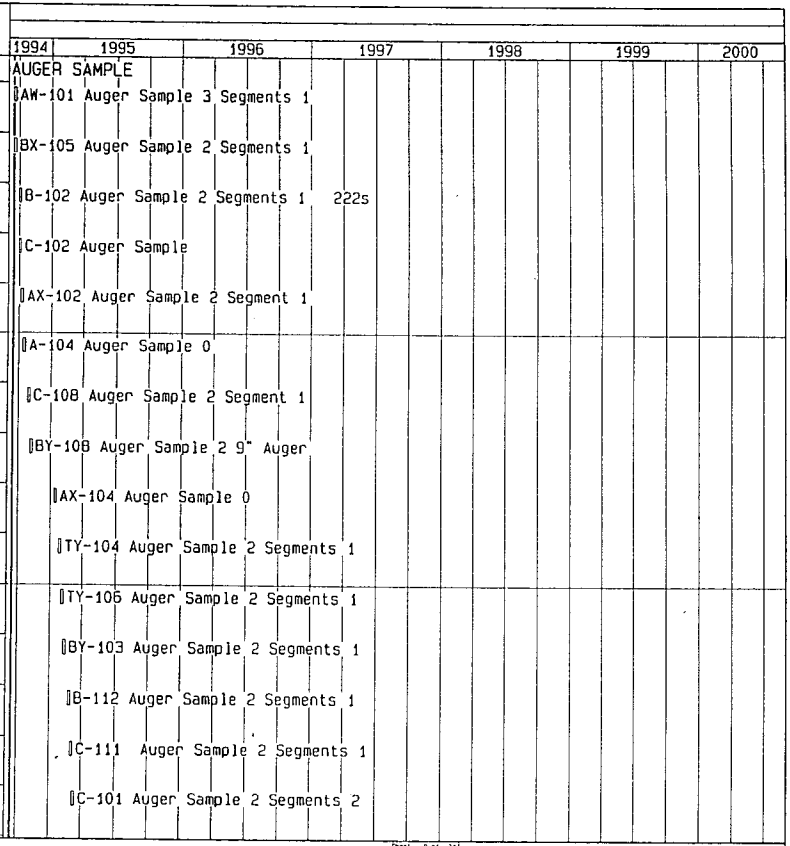
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
AS04-4	15SEP94	21SEP94	5
Completed	AS 23JAN95	AF 27JAN95	
AS08-4	15SEP94	21SEP94	5
Completed	AS 28SEP94	AF 06OCT94	
AS05-4	29SEP94	5OCT94	5
Completed	AS 12OCT94	AF 17OCT94	
AS99-4	29SEP94	5OCT94	5
Completed	AS 29DEC94	AF 13JAN95	
AS10-4	6OCT94	12OCT94	5
Completed	AS 6FEB95	AF 14FEB95	
AS11-4	13OCT94	19OCT94	5
Completed	AS 25OCT94	AF 10NOV94	
AS14-4	27OCT94	2NOV94	5
Completed	AS 11NOV94	AF 15DEC94	
AS98-4	3NOV94	9NOV94	5
Completed	AS 16DEC94	AF 30DEC94	
AS06-4	11JAN95	17JAN95	5
Completed	AS 14FEB95	AF 17FEB95	
AS37-4	25JAN95	31JAN95	5
Completed	AS 21FEB95	AF 24FEB95	
AS25-4	1FEB95	7FEB95	5
Completed	AS 27FEB95	AF 3MAR95	
AS30-4	8FEB95	14FEB95	5
Completed	AS 6MAR95	AF 10MAR95	
AS21-4	22FEB95	28FEB95	5
Completed	AS 13MAR95	AF 17MAR95	
AS15-4	1MAR95	7MAR95	5
Completed	AS 22MAR95	AF 25MAR95	
AS07-4	8MAR95	14MAR95	5
Completed	AS 29MAR95	AF30MAR95	



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

TEST

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

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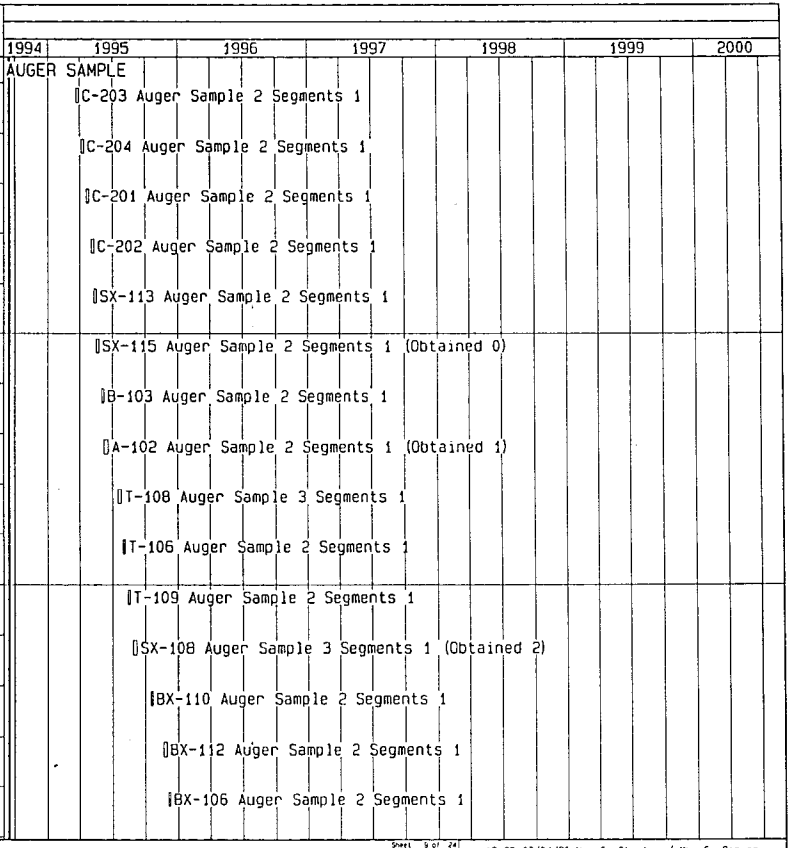
AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
AUGER SAMPLE			
AS17-4	22MAR95	28MAR95	5
Completed AS 3APR95 AF 6APR95			
AS27-4	5APR95	11APR95	5
Completed AS 10APR95 AF 2MAY95			
AS20-4	19APR95	25APR95	5
Completed AS 2MAY95 AF 3MAY95			
AS16-4	3MAY95	9MAY95	5
Completed AS 4MAY95 AF 5MAY95			
AS22-4	10MAY95	16MAY95	5
Completed AS 9MAY95 AF 10MAY95			
AS23-4	17MAY95	23MAY95	5
Completed AS 16MAY95 AF 18MAY95			
AS13-4	1JUN95	7JUN95	5
Completed AS 24MAY95 AF 2JUN95			
AS28-4	8JUN95	19JUN95	8
Completed AS 6JUN95 AF 8JUN95			
AS19-4	17JUL95	26JUL95	8
Completed AS 14JUL95 AF 25JUL95			
AS24-4	31JUL95	4AUG95	5
Completed AS 25JUL95 AF 11AUG95			
AS34-4	14AUG95	18AUG95	5
Completed AS 14AUG95 AF 22AUG95			
AS40-4	28AUG95	6SEP95	8
Completed AS 14SEP95 AF 27SEP95			
AS38-4	16OCT95	20OCT95	5
Completed AS 9OCT95 AF 16OCT95			
AS32-4	20NOV95	28NOV95	5
COMPLETED AS 13NOV95 AF 17NOV95			
AS31-4	4DEC95	8DEC95	5
Completed AS 04DEC95 AF 20DEC95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 1OCT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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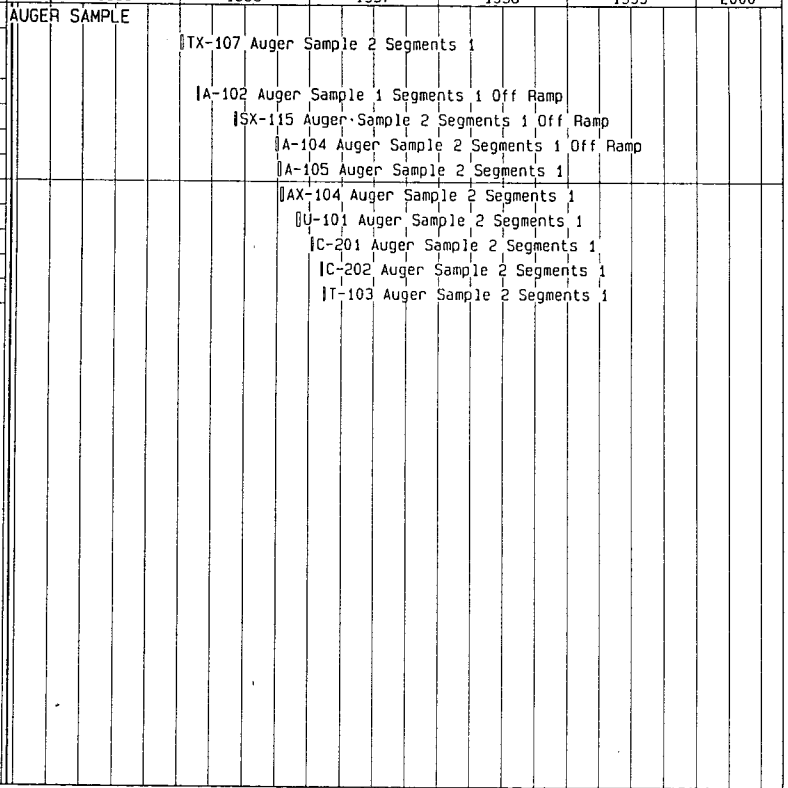
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
AS36-4	3JAN96	9JAN96	5
Completed	AS 08JAN96	AF 17JAN96	
AS53-4	20FEB96	23FEB96	4
AS39-4	3JUN96	7JUN96	5
AS12-4	27SEP96	30CT96	5
AS02-4	40CT96	100CT96	5
AS41-4	110CT96	170CT96	5
AS29-4	26NOV96	4DEC96	5
AS54-4	6JAN97	10JAN97	5
AS55-4	3FEB97	7FEB97	5
AS18-4	10FEB97	14FEB97	5



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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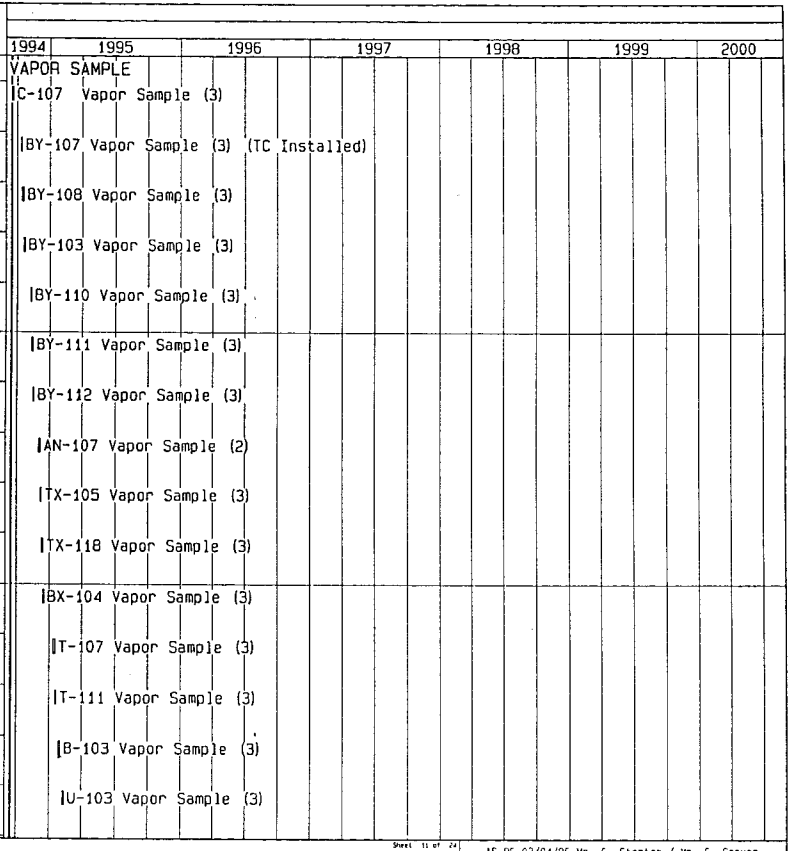
Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VS02-4	15SEP94	19SEP94	3
Completed AS 28SEP94 AF 29SEP94			
VS0K-4	11OCT94	13OCT94	3
Completed AS 25OCT94 AF 26OCT94			
VSE6-4	14OCT94	18OCT94	3
Completed AS 27OCT94 AF 27OCT94			
VS0M-4	19OCT94	21OCT94	3
Completed AS 31OCT94 AF 01NOV94			
VS0N-4	7NOV94	9NOV94	3
Completed AS 10NOV94 AF 11NOV94			
VS52-4	10NOV94	14NOV94	3
Completed AS 15NOV94 AF 16NOV94			
VSZ8-4	15NOV94	17NOV94	3
Completed AS 17NOV94 AF 18NOV94			
VS35-4	1DEC94	5DEC94	3
Completed AS 20DEC94 AF 21DEC94			
VS0Q-4	6DEC94	8DEC94	3
Completed AS 19DEC94 AF 21DEC94			
VS0R-4	9DEC94	13DEC94	3
Completed AS 15DEC94 AF 16DEC94			
VS0G-4	14DEC94	16DEC94	3
Completed AS 29DEC94 AF 30DEC94			
VS03-4	12JAN95	16JAN95	3
Completed AS 17JAN95 AF 18JAN95			
VS09-4	17JAN95	19JAN95	3
Completed AS 19JAN95 AF 20JAN95			
VS45-4	27JAN95	31JAN95	3
Completed AS 07FEB95 AF 8FEB95			
VS10-4	8FEB95	10FEB95	3
Completed AS 13FEB95 AF 15FEB95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10C193
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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WESTINGHOUSE HANFORD COMPANY
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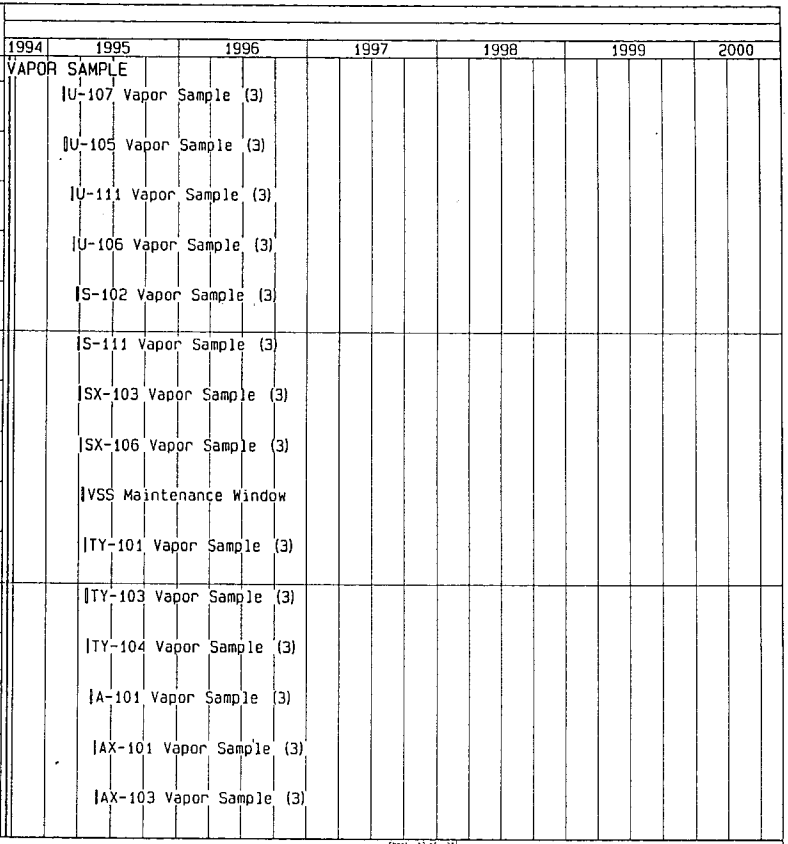
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VS0A-4	13FEB95	15FEB95	3
Completed AS 16FEB95 AF 17FEB95			
VS14-4	16FEB95	21FEB95	3
Completed AS 23FEB95 AF 24FEB95			
VS66-4	8MAR95	10MAR95	3
Completed AS 27FEB95 AF 28FEB95			
VS89-4	13MAR95	15MAR95	3
Completed AS 6MAR95 AF 8MAR95			
VS0S-4	23MAR95	27MAR95	3
Completed AS 13MAR95 AF 14MAR95			
VS07-4	28MAR95	30MAR95	3
Completed AS 15MAR95 AF 21MAR95			
VS08-4	31MAR95	4APR95	3
Completed AS 22MAR95 AF 23MAR95			
VS0F-4	5APR95	7APR95	3
Completed AS 23MAR95 AF 24MAR95			
VS08-10	10APR95	14APR95	5
Completed AS 27MAR95 AF 30MAR95			
VS0B-4	17APR95	19APR95	3
Completed AS 5APR95 AF 6APR95			
VS0C-4	20APR95	24APR95	3
Completed AS 10APR95 AF 11APR95			
VS0D-4	25APR95	27APR95	3
Completed AS 12APR95 27APR95			
VS05-4	5MAY95	9MAY95	3
Completed AS 6JUN95 AF 9JUN95			
VS32-4	17MAY95	19MAY95	3
Completed AS 12JUN95 AF 15JUN95			
VS33-4	22MAY95	24MAY95	3
Completed AS 20JUN95 AF 21JUN95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

TEST

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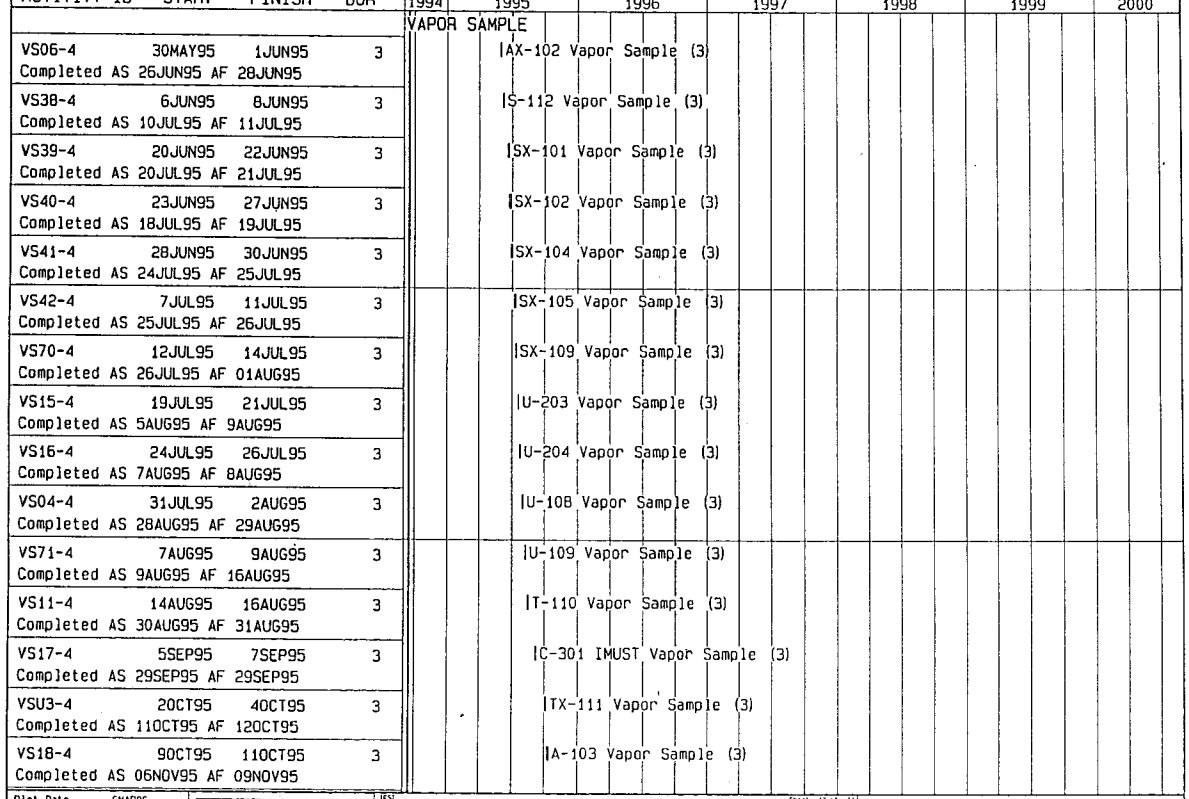
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VAPOR SAMPLE			
VS06-4	30MAY95	1JUN95	3
Completed AS 26JUN95 AF 28JUN95			
VS38-4	6JUN95	8JUN95	3
Completed AS 10JUL95 AF 11JUL95			
VS39-4	20JUN95	22JUN95	3
Completed AS 20JUL95 AF 21JUL95			
VS40-4	23JUN95	27JUN95	3
Completed AS 18JUL95 AF 19JUL95			
VS41-4	28JUN95	30JUN95	3
Completed AS 24JUL95 AF 25JUL95			
VS42-4	7JUL95	11JUL95	3
Completed AS 25JUL95 AF 26JUL95			
VS70-4	12JUL95	14JUL95	3
Completed AS 26JUL95 AF 01AUG95			
VS15-4	19JUL95	21JUL95	3
Completed AS 5AUG95 AF 9AUG95			
VS16-4	24JUL95	26JUL95	3
Completed AS 7AUG95 AF 8AUG95			
VS04-4	31JUL95	2AUG95	3
Completed AS 28AUG95 AF 29AUG95			
VS71-4	7AUG95	9AUG95	3
Completed AS 9AUG95 AF 16AUG95			
VS11-4	14AUG95	16AUG95	3
Completed AS 30AUG95 AF 31AUG95			
VS17-4	5SEP95	7SEP95	3
Completed AS 29SEP95 AF 29SEP95			
VSU3-4	20CT95	40CT95	3
Completed AS 110CT95 AF 120CT95			
VS18-4	90CT95	110CT95	3
Completed AS 06NOV95 AF 09NOV95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 1OCT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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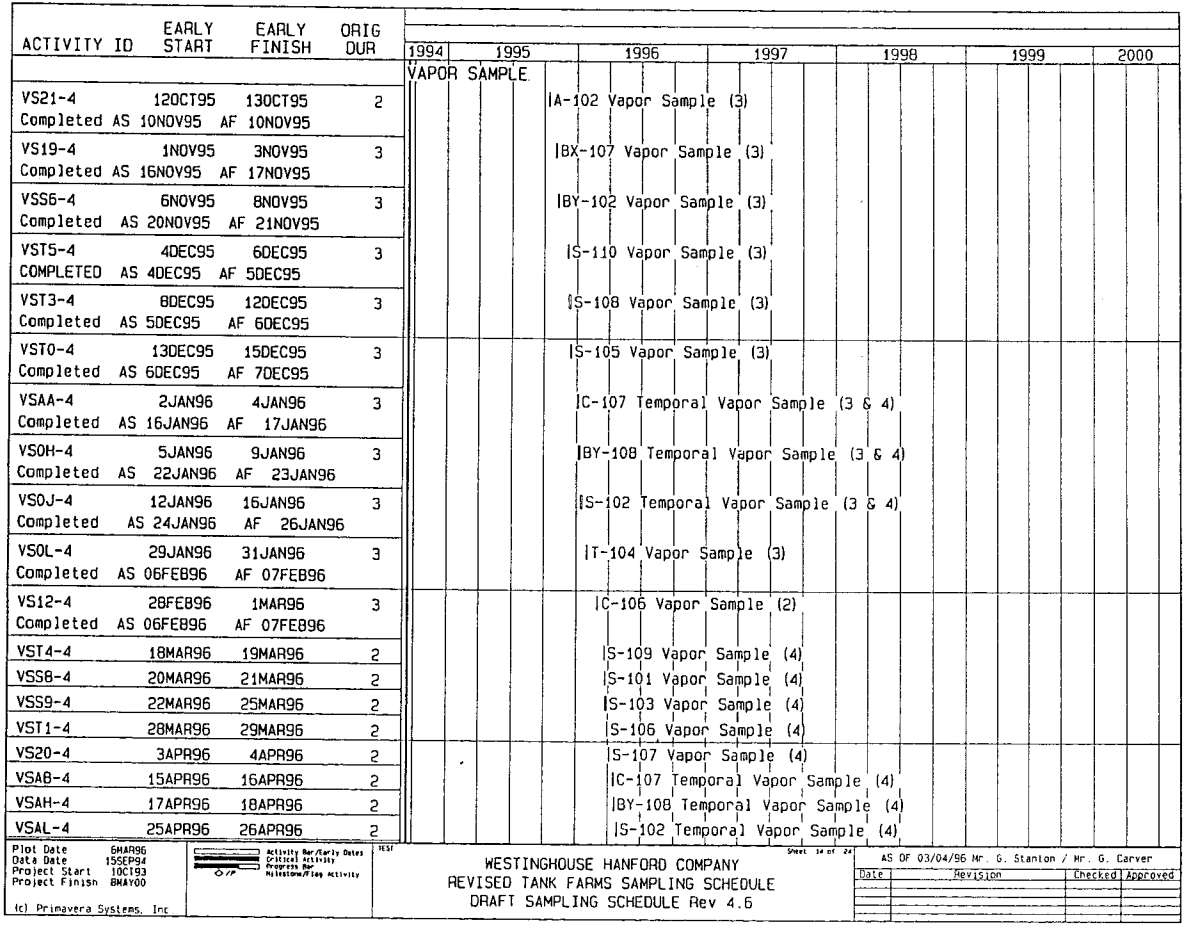
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved


ACTIVITY ID
EARLY START
EARLY FINISH
ORIG DUR
1994
1995
1996
1997
1998
1999
2000
VAPOR SAMPLE
VS21-4 120CT95 130CT95 2
Completed AS 10NOV95 AF 10NOV95
A-102 Vapor Sample (3)
VS19-4 1NOV95 3NOV95 3
Completed AS 16NOV95 AF 17NOV95
BX-107 Vapor Sample (3)
VSS6-4 6NOV95 8NOV95 3
Completed AS 20NOV95 AF 21NOV95
BY-102 Vapor Sample (3)
VST5-4 4DEC95 6DEC95 3
COMPLETED AS 4DEC95 AF 5DEC95
S-110 Vapor Sample (3)
VST3-4 8DEC95 12DEC95 3
Completed AS 5DEC95 AF 6DEC95
S-108 Vapor Sample (3)
VST0-4 13DEC95 15DEC95 3
Completed AS 6DEC95 AF 7DEC95
S-105 Vapor Sample (3)
VSAA-4 2JAN96 4JAN96 3
Completed AS 16JAN96 AF 17JAN96
C-107 Temporal Vapor Sample (3 & 4)
VS0H-4 5JAN96 9JAN96 3
Completed AS 22JAN96 AF 23JAN96
BY-108 Temporal Vapor Sample (3 & 4)
VS0J-4 12JAN96 16JAN96 3
Completed AS 24JAN96 AF 26JAN96
S-102 Temporal Vapor Sample (3 & 4)
VS0L-4 29JAN96 31JAN96 3
Completed AS 06FEB96 AF 07FEB96
T-104 Vapor Sample (3)
VS12-4 28FEB96 1MAR96 3
Completed AS 06FEB96 AF 07FEB96
C-106 Vapor Sample (2)
VST4-4 18MAR96 19MAR96 2
S-109 Vapor Sample (4)
VSS8-4 20MAR96 21MAR96 2
S-101 Vapor Sample (4)
VSS9-4 22MAR96 25MAR96 2
S-103 Vapor Sample (4)
VST1-4 28MAR96 29MAR96 2
S-106 Vapor Sample (4)
VS20-4 3APR96 4APR96 2
S-107 Vapor Sample (4)
VSAB-4 15APR96 16APR96 2
C-107 Temporal Vapor Sample (4)
VSAH-4 17APR96 18APR96 2
BY-108 Temporal Vapor Sample (4)
VSAL-4 25APR96 26APR96 2
S-102 Temporal Vapor Sample (4)
Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00
(c) Primavera Systems, Inc
Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Dog Activity
TEST
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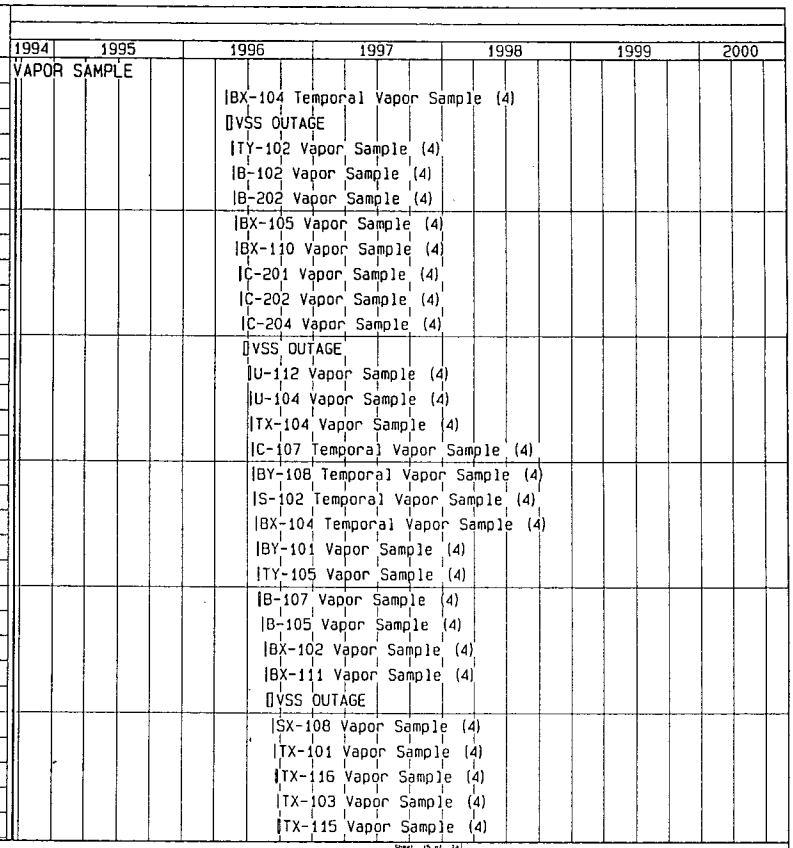
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6
AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver
Date
Revision
Checked
Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VSAE-4	1MAY96	2MAY96	2
VS01-4	3MAY96	16MAY96	10
VSU2-4	17MAY96	20MAY96	2
VS22-4	21MAY96	22MAY96	2
VS23-4	23MAY96	24MAY96	2
VS24-4	28MAY96	29MAY96	2
VSS0-4	30MAY96	31MAY96	2
VS25-4	7JUN96	10JUN96	2
VS26-4	11JUN96	12JUN96	2
VS27-4	17JUN96	18JUN96	2
VS02-4	19JUN96	2JUL96	10
VSG6-4	3JUL96	8JUL96	2
VSG5-4	9JUL96	10JUL96	2
VST7-4	11JUL96	12JUL96	2
VSAC-4	15JUL96	16JUL96	2
VSAJ-4	17JUL96	18JUL96	2
VSAM-4	19JUL96	22JUL96	2
VSAF-4	25JUL96	26JUL96	2
VSA9-4	29JUL96	30JUL96	2
VS43-4	31JUL96	1AUG96	2
VSX8-4	2AUG96	5AUG96	2
VSS5-4	12AUG96	13AUG96	2
VSX9-4	20AUG96	21AUG96	2
VSS1-4	22AUG96	23AUG96	2
VS03-4	26AUG96	9SEP96	10
VSY1-4	10SEP96	11SEP96	2
VSP3-4	16SEP96	17SEP96	2
VSP8-4	20SEP96	23SEP96	2
VSP4-4	25SEP96	26SEP96	2
VSP7-4	27SEP96	30SEP96	2



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Prog Activity

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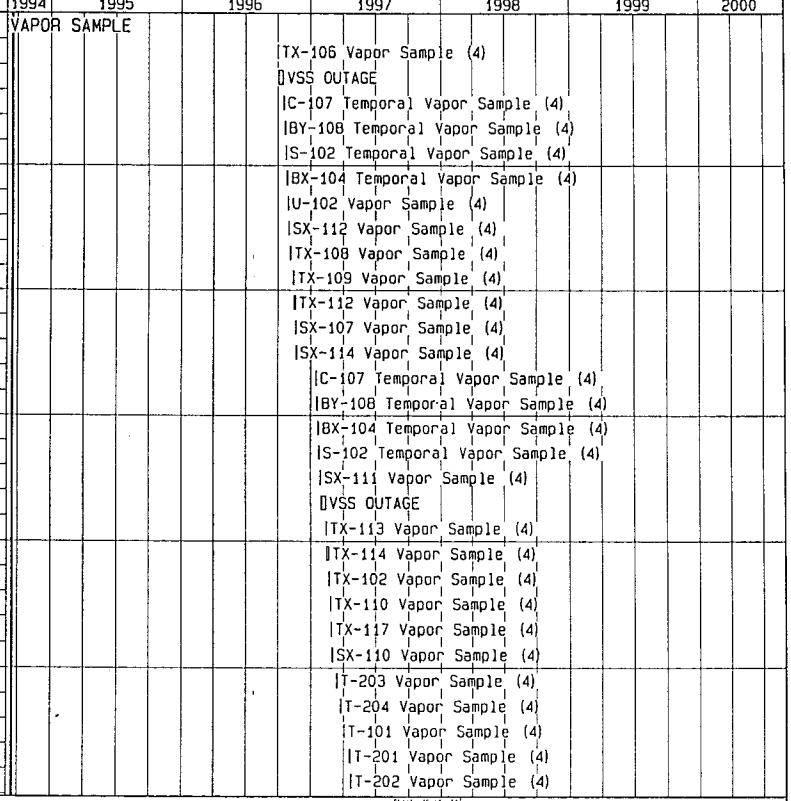
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VST8-4	10OCT96	20OCT96	2
VS04-4	30OCT96	160CT96	10
VSAD-4	170CT96	180CT96	2
VSAK-4	210CT96	220CT96	2
VSAN-4	230CT96	240CT96	2
VSAG-4	250CT96	280CT96	2
VSP0-4	290CT96	300CT96	2
VSY5-4	310CT96	1NOV96	2
VST9-4	4NOV96	5NOV96	2
VSU5-4	13NOV96	14NOV96	2
VSU4-4	15NOV96	18NOV96	2
VSX0-4	19NOV96	20NOV96	2
VSY6-4	21NOV96	22NOV96	2
VSAT-4	15JAN97	16JAN97	2
VSAR-4	17JAN97	20JAN97	2
VSAP-4	21JAN97	22JAN97	2
VSAS-4	23JAN97	24JAN97	2
VSY4-4	27JAN97	28JAN97	2
VS05-4	29JAN97	11FEB97	10
VSP5-4	12FEB97	13FEB97	2
VSP6-4	14FEB97	19FEB97	2
VST6-4	20FEB97	21FEB97	2
VSU1-4	24FEB97	25FEB97	2
VSP9-4	26FEB97	27FEB97	2
VSY3-4	28FEB97	3MAR97	2
VSP1-4	13MAR97	14MAR97	2
VSP2-4	24MAR97	25MAR97	2
VSY7-4	2APR97	3APR97	2
VSY8-4	18APR97	21APR97	2
VSY9-4	22APR97	23APR97	2



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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WESTINGHOUSE HANFORD COMPANY
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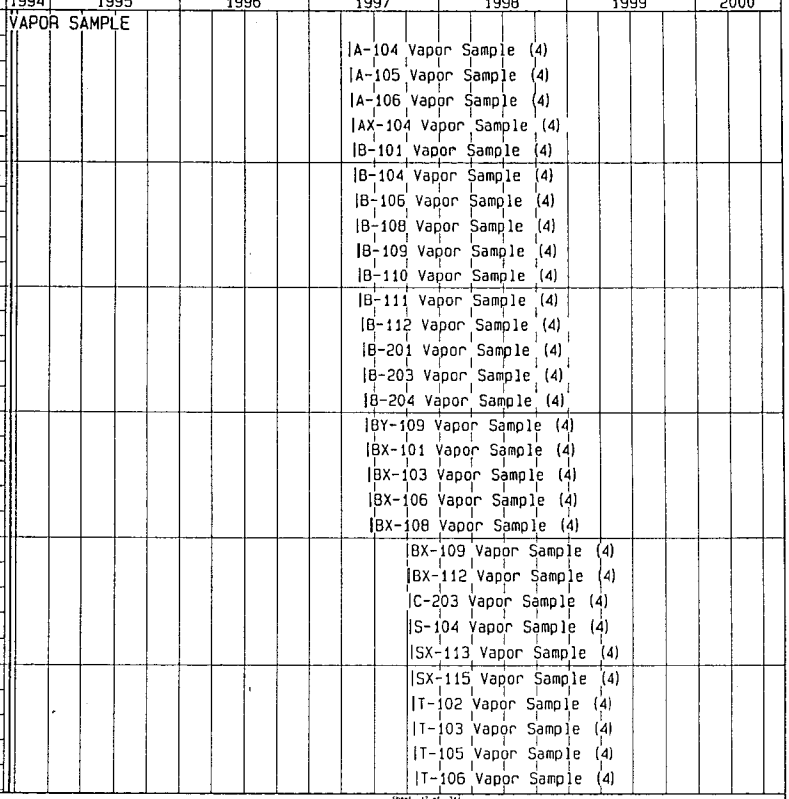
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VSB0-4	24APR97	25APR97	2
VSB1-4	28APR97	29APR97	2
VSB2-4	30APR97	1MAY97	2
VSB3-4	2MAY97	5MAY97	2
VSB4-4	6MAY97	7MAY97	2
VSB5-4	8MAY97	9MAY97	2
VSB6-4	12MAY97	13MAY97	2
VSB7-4	14MAY97	15MAY97	2
VSB8-4	16MAY97	19MAY97	2
VSB9-4	20MAY97	21MAY97	2
VSBA-4	22MAY97	23MAY97	2
VSBB-4	29MAY97	30MAY97	2
VSBC-4	2JUN97	3JUN97	2
VSBD-4	4JUN97	5JUN97	2
VSBE-4	6JUN97	9JUN97	2
VSCD-4	10JUN97	11JUN97	2
VSBF-4	12JUN97	13JUN97	2
VSBG-4	16JUN97	17JUN97	2
VSBH-4	18JUN97	19JUN97	2
VSBI-4	20JUN97	23JUN97	2
VSBJ-4	10CT97	20CT97	2
VSBK-4	30CT97	60CT97	2
VSBL-4	70CT97	80CT97	2
VSBM-4	90CT97	100CT97	2
VSBN-4	130CT97	140CT97	2
VSBP-4	150CT97	160CT97	2
VSBQ-4	170CT97	200CT97	2
VSBR-4	210CT97	220CT97	2
VSBS-4	230CT97	240CT97	2
VSBT-4	270CT97	280CT97	2



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

(c) Primavera Systems, Inc

Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Prog Activity

TEST

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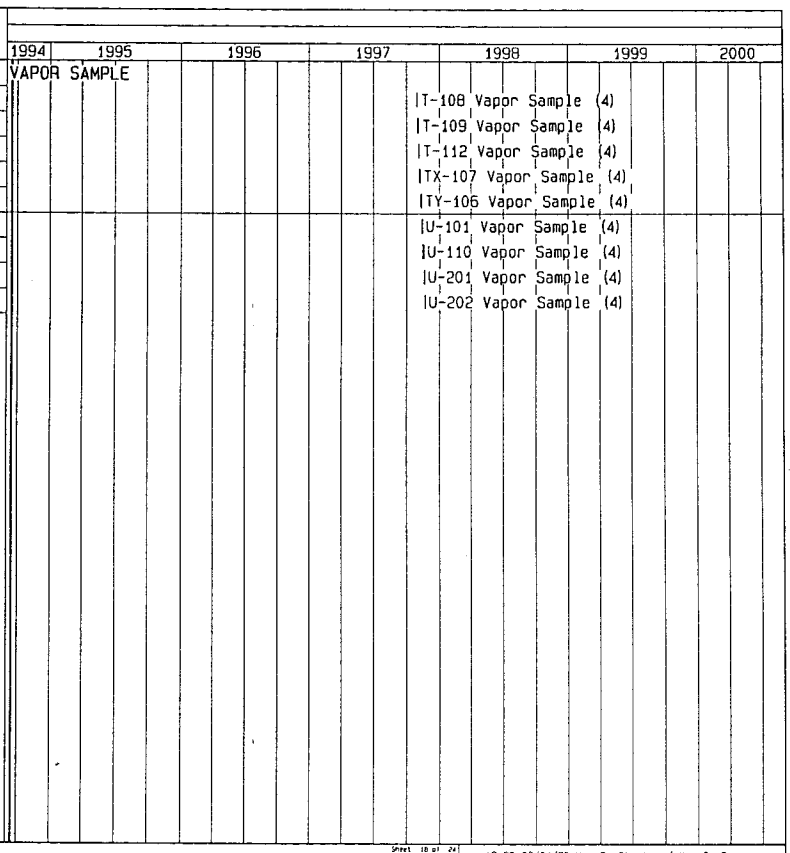
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
VSBU-4	29OCT97	30OCT97	2
VSBV-4	31OCT97	3NOV97	2
VSBW-4	4NOV97	5NOV97	2
VSBX-4	6NOV97	7NOV97	2
VSBY-4	10NOV97	11NOV97	2
VSBZ-4	12NOV97	13NOV97	2
VSCA-4	14NOV97	17NOV97	2
VSCB-4	18NOV97	19NOV97	2
VSCC-4	20NOV97	21NOV97	2



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Neg Activity

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WESTINGHOUSE HANFORD COMPANY
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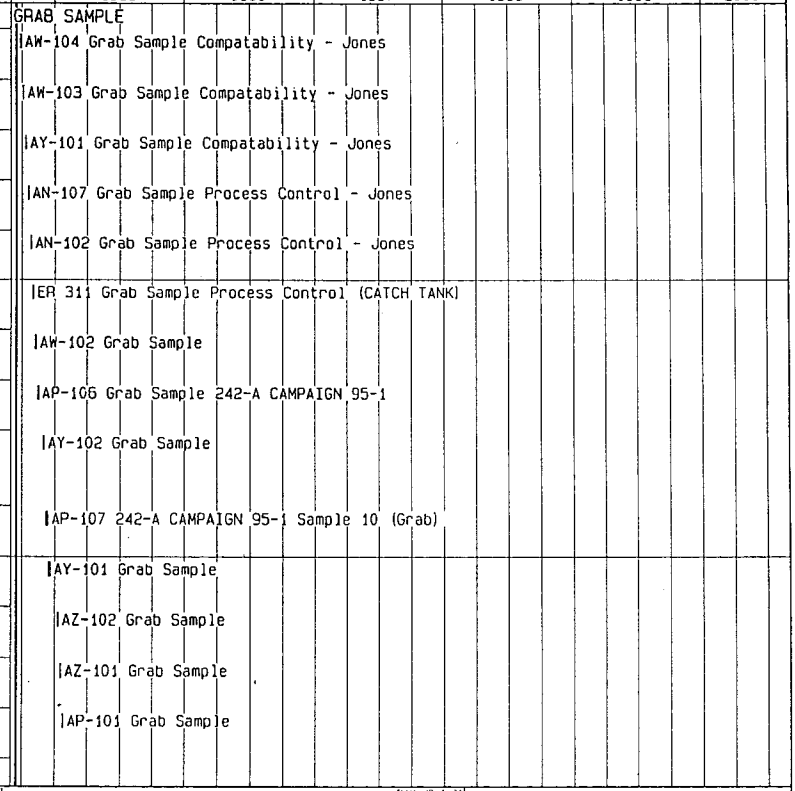
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
GS56-4	26SEP94	28SEP94	3
Completed AS 27SEP94 AF 28SEP94			
GS57-4	30CT94	5OCT94	3
Completed AS 29SEP94 AF 29SEP94			
GS60-4	100CT94	120CT94	3
Completed AS 070CT94 AF 70CT94			
GS81-4	170CT94	190CT94	3
Completed AS 170CT94 AF 180CT94			
GS58-4	240CT94	260CT94	3
Completed AS 190CT94 AF 210CT94			
GS55-4	310CT94	2NOV94	3
Completed AS 280CT94 AF 280CT94			
GS92-4	7NOV94	9NOV94	3
Completed AS 07NOV94 AF 09NOV94			
GS25-4	14NOV94	16NOV94	3
Completed AS 07NOV94 AF 17NOV94			
GS66-4	30NOV94	2DEC94	3
Obtain 200 ml sludge. Completed AS 06DEC94 AF 07DEC94			
GS20-4	8DEC94	12DEC94	3
Completed AS 30JAN95 AF 2FEB95			
GS63-4	15DEC94	19DEC94	3
Completed AS 27DEC94 AF 29DEC94			
GS61-4	9JAN95	11JAN95	3
Completed AS 21FEB95 AF 22FEB95			
GS62-4	16JAN95	18JAN95	3
Completed AS 27FEB95 AF 3MAR95			
GS06-4	23JAN95	25JAN95	3
Completed AS 15DEC94 AF 15DEC94			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Misc Activity

REST

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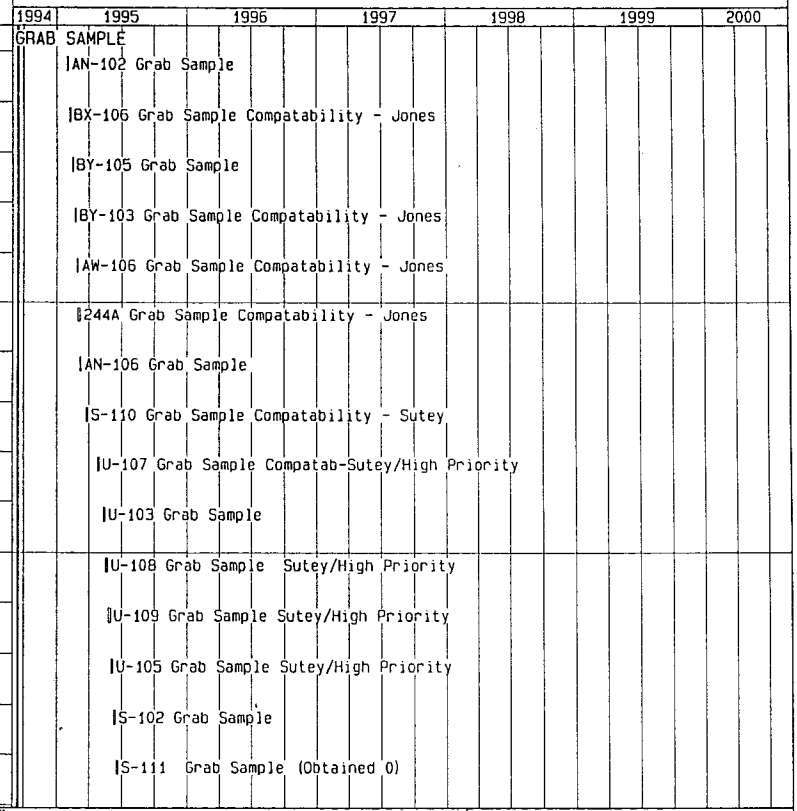
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
GS15-4	30JAN95	1FEB95	3
Completed AS 14FEB95 AF 15FEB95			
GS33-4	6FEB95	8FEB95	3
Completed AS 14MAR95 AF 16MAR95			
GS29-4	13FEB95	15FEB95	3
Completed AS 21MAR95 AF 22MAR95			
GS30-4	21FEB95	23FEB95	3
Completed AS 22MAR95 AF 23MAR95			
GS17-4	27FEB95	1MAR95	3
Completed AS 7MAR95 AF 9MAR95			
GS54-4	2MAR95	6MAR95	3
Completed AS 23MAR95 AF 23MAR95			
GS10-4	7MAR95	9MAR95	3
Completed AS 3APR95 AF 6APR95			
GS12-4	24MAR95	28MAR95	3
Completed AS 5APR95 AF 7APR95			
GS08-4	26APR95	28APR95	3
Completed AS 10APR95 AF 13APR95			
GS39-4	11MAY95	15MAY95	3
Completed AS 23MAY95 AF 24MAY95			
GS42-4	18MAY95	22MAY95	3
Completed AS 30MAY95 AF 31MAY95			
GS43-4	25MAY95	30MAY95	4
Completed AS 1JUN95 AF 9JUN95			
GS40-4	2JUN95	6JUN95	3
Completed AS 12JUN95 AF 16JUN95			
GS14-4	9JUN95	13JUN95	3
Completed AS 20JUN95 AF 23JUN95			
GS90-4	16JUN95	20JUN95	3
Completed AS 23JUN95 AF 23JUN95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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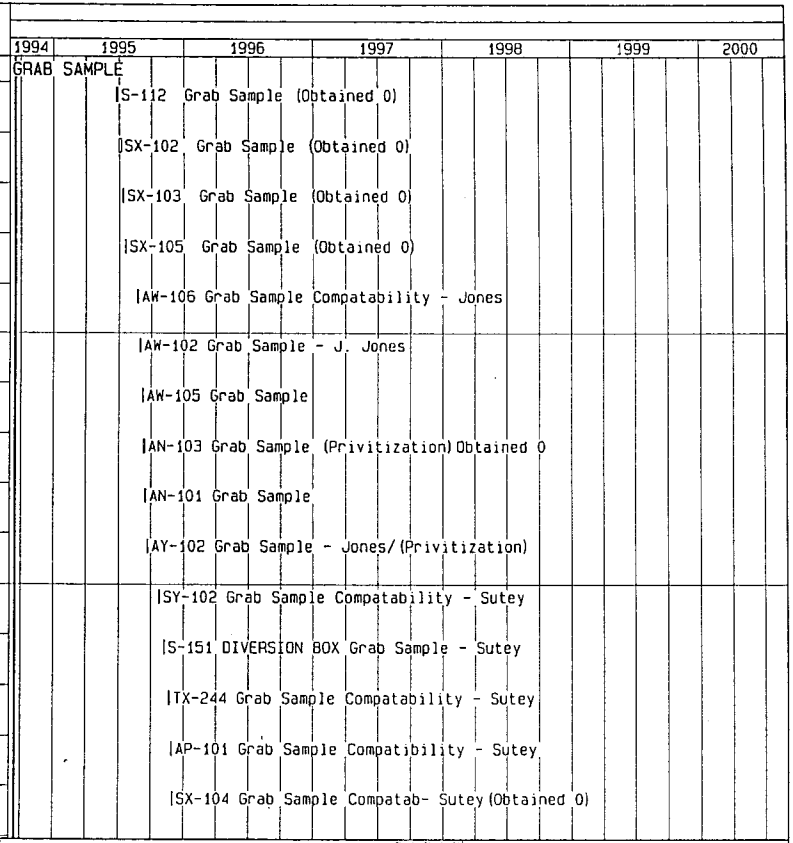
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
GS93-4	23JUN95	27JUN95	3
Completed AS 26JUN95 AF 28JUN95			
GS94-4	30JUN95	6JUL95	3
Completed AS 30JUN95 AF 6JUL95			
GS95-4	11JUL95	13JUL95	3
Completed AS 30JUN95 AF 7JUL95			
GS96-4	18JUL95	20JUL95	3
Completed AS 11JUL95 AF 12JUL95			
GS24-4	21AUG95	23AUG95	3
Completed AS 23AUG95 AF 24AUG95			
GS91-4	28AUG95	30AUG95	3
Completed AS 24AUG95 AF 25AUG95			
GS13-4	5SEP95	7SEP95	3
Completed AS 28AUG95 AF 29AUG95			
GS64-4	8SEP95	12SEP95	3
Completed AS 8SEP95 AF 8SEP95			
GS04-4	13SEP95	15SEP95	3
Completed AS 31AUG95 AF 6SEP95			
GS41-4	20SEP95	21SEP95	2
Completed AS 18SEP95 AF 18SEP95			
GS88-4	230CT95	250CT95	3
Completed AS 190CT95 AF 200CT95			
GS67-4	6NOV95	8NOV95	3
Completed AS 08NOV95 AF 10NOV95			
GS89-4	20NOV95	22NOV95	3
Completed AS 08NOV95 AF 10NOV95			
GS71-4	27NOV95	28NOV95	2
Completed AS 09NOV95 AF 10NOV95			
GS35-4	29NOV95	1DEC95	3
Completed AS 20NOV95 AF 23NOV95			



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Flag Activity

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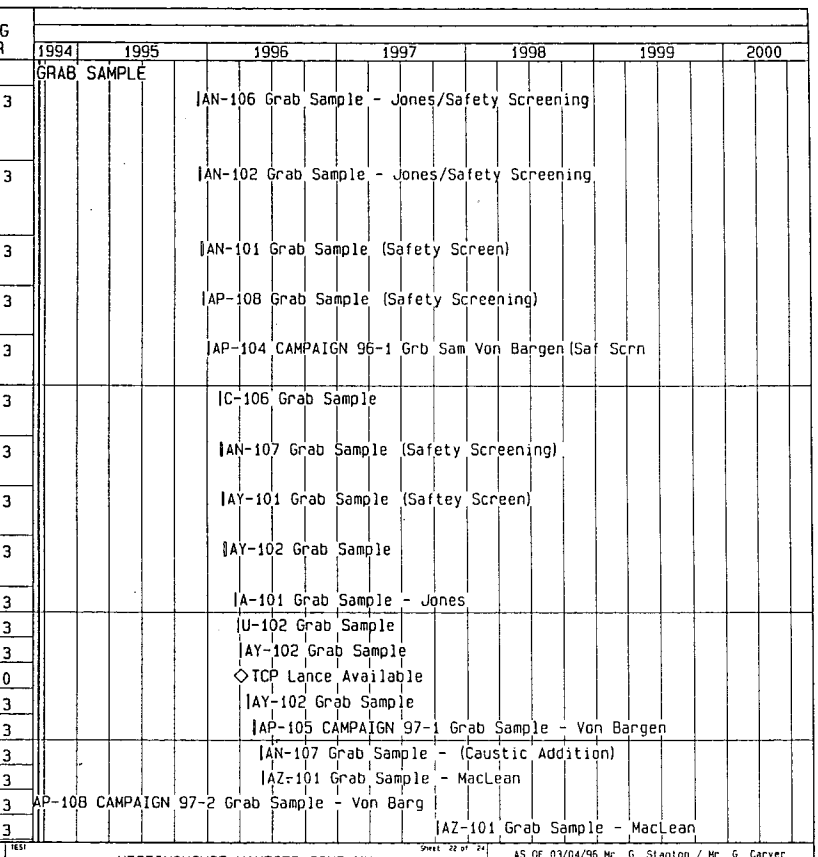
WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
GS87-4	4DEC95	6DEC95	3
Completed AS 17NOV95 AF 21NOV95 Completed Again AS 29DEC95 AF 29DEC95			
GS86-4	7DEC95	11DEC95	3
Completed AS 27NOV95 AF 30NOV95 Completed Again AS 12DEC95 AF 12DEC95			
GS50-4	14DEC95	18DEC95	3
Completed AS 11DEC95 AF 12 DEC95			
GSAA-4	19DEC95	21DEC95	3
Completed AS 02JAN96 AF 05JAN96			
GS45-4	2JAN96	4JAN96	3
Completed AS 18JAN96 AF 23JAN96			
GS19-4	5FEB96	7FEB96	3
Completed AS 5Feb96 AF 1Mar96			
GS16-4	8FEB96	12FEB96	3
Completed AS 11FEB96 15FEB96			
GSAC-4	13FEB96	15FEB96	3
Completed AS 27Feb96 AF 28Feb96			
GS05-4	16FEB96	21FEB96	3
Completed AS 28Feb96 AF 28Feb96			
GS78-4	18MAR96	20MAR96	3
GS21-4	25MAR96	27MAR96	3
GS8A-4	1APR96	3APR96	3
GS80-4	4APR96		0
GS8B-4	22APR96	24APR96	3
GS85-4	9MAY96	13MAY96	3
GS73-4	29MAY96	31MAY96	3
GS77-4	3JUN96	5JUN96	3
GS84-4	10CT97	30CT97	3
GS97-4	60CT97	80CT97	3



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Prog Activity

TEST

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WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

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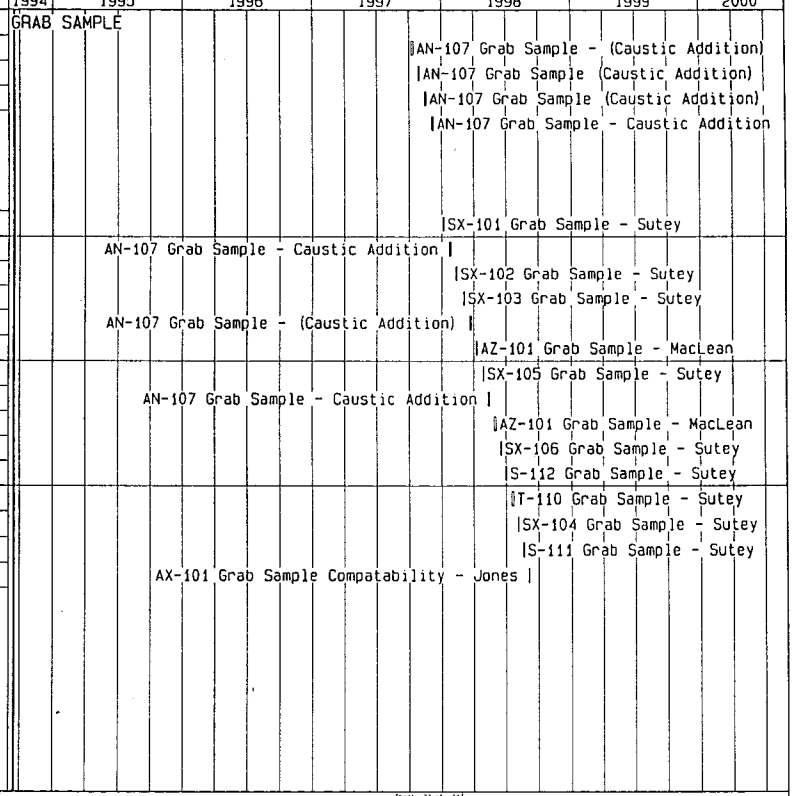
ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
GS74-4	90CT97	130CT97	3
GS83-4	280CT97	300CT97	3
GS75-4	14NOV97	18NOV97	3
GS76-4	5DEC97	9DEC97	3
AN-107 Sludge\Saltcake - 200ml ORNL Supernatant - 5100 ml Additional sludge\saltcake 200 ml r Additional supernatant - 5.1 liters			
GS31-4	5JAN98	7JAN98	3
GS65-4	22JAN98	26JAN98	3
GS32-4	10FEB98	12FEB98	3
GS34-4	3MAR98	5MAR98	3
GS82-4	20MAR98	24MAR98	3
GS98-4	8APR98	10APR98	3
GS36-4	27APR98	29APR98	3
GS72-4	12MAY98	14MAY98	3
GS99-4	29MAY98	2JUN98	3
GS37-4	15JUN98	17JUN98	3
GS28-4	30JUN98	2JUL98	3
GS38-4	17JUL98	21JUL98	3
GS22-4	3AUG98	5AUG98	3
GS27-4	18AUG98	20AUG98	3
GS79-4	2SEP98	4SEP98	3



Plot Date 6MAR96
Data Date 15SEP94
Project Start 10CT93
Project Finish 8MAY00

(c) Primavera Systems, Inc.

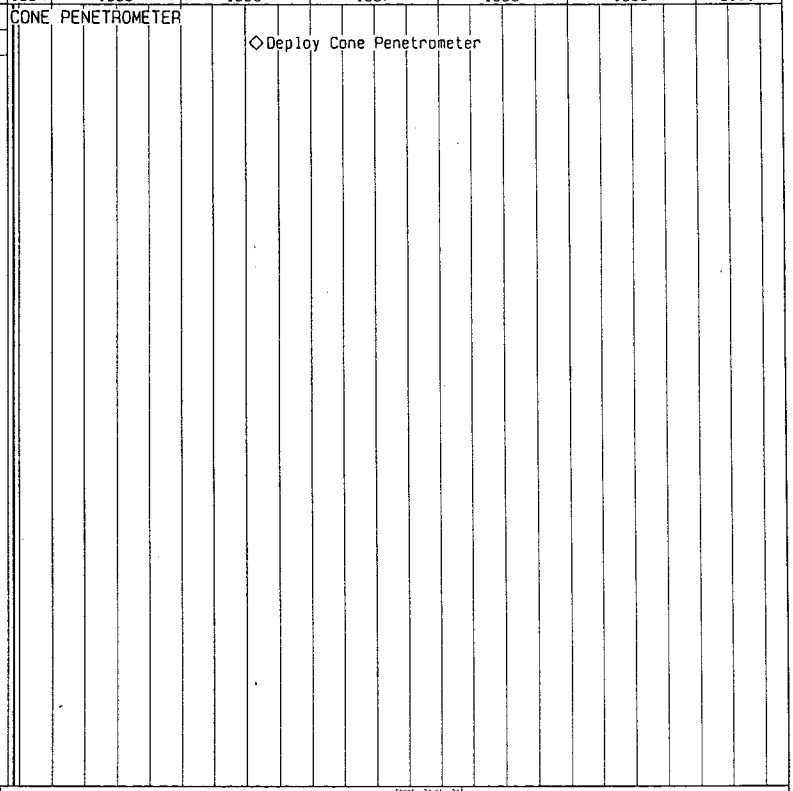
Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Prog Activity

WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

ACTIVITY ID	EARLY START	EARLY FINISH	ORIG DUR
CONE PENETROMETER			
CP00-4	1AUG96		0



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Project Start 10CT93
Project Finish 8MAY00

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Activity Bar/Early Dates
Critical Activity
Progress Bar
Milestone/Msg Activity

REST

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WESTINGHOUSE HANFORD COMPANY
REVISED TANK FARMS SAMPLING SCHEDULE
DRAFT SAMPLING SCHEDULE Rev 4.6

AS OF 03/04/96 Mr. G. Stanton / Mr. G. Carver

Date	Revision	Checked	Approved

DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	Evaluation and Planning	Date 09/12/96
Project Title/Work Order		EDT No. N/A
WHC-SD-WM-PLN-101, Rev. 2, "FY 1996 Tank Waste Analysis Plan"		ECN No. ECN-635349

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
ONSITE					
U. S. Department of Energy - Richland Field Office					
W. Liou	S7-54	X			
N. W. Willis	S7-54	X			
Westinghouse Hanford Company					
C. S. Homi	R2-12	X			
T. J. Kelley	S7-21	X			
Central Files	A3-88	X			
T.C.R.C.	R2-12	X			
OFFSITE					
U. S. Department of Energy - Headquarters Office of Environmental Restoration and Waste Management EM-563 12800 Middlebrook Road Germantown, MD 20874					
J. A. Poppiti		X			