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H. Author/Requestor 372-3105, H 8-13 <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> David R. Pratt (Print and Sign) </div> <div style="width: 45%;"> Responsible Manager </div> </div>																															
I. Reviewers <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Yes</th> <th style="width: 10%;">Print</th> <th style="width: 40%;">Signature</th> <th style="width: 25%;">Public Y/N (If N, complete J)</th> </tr> </thead> <tbody> <tr> <td>General Counsel</td> <td><input checked="" type="checkbox"/></td> <td>Leland F. Willis</td> <td></td> <td style="text-align: center;">Y / N</td> </tr> <tr> <td>Office of External Affairs</td> <td><input type="checkbox"/></td> <td></td> <td></td> <td style="text-align: center;">Y / N</td> </tr> <tr> <td>DOE-RL</td> <td><input checked="" type="checkbox"/></td> <td>John B. Hall</td> <td></td> <td style="text-align: center;">Y / N</td> </tr> <tr> <td>Other</td> <td><input type="checkbox"/></td> <td></td> <td></td> <td style="text-align: center;">Y / N</td> </tr> <tr> <td>Other</td> <td><input type="checkbox"/></td> <td></td> <td></td> <td style="text-align: center;">Y / N</td> </tr> </tbody> </table>			Yes	Print	Signature	Public Y/N (If N, complete J)	General Counsel	<input checked="" type="checkbox"/>	Leland F. Willis		Y / N	Office of External Affairs	<input type="checkbox"/>			Y / N	DOE-RL	<input checked="" type="checkbox"/>	John B. Hall		Y / N	Other	<input type="checkbox"/>			Y / N	Other	<input type="checkbox"/>			Y / N
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Hanford Site Annual Treatability Studies Report

Calendar Year 2003

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management



**United States
Department of Energy**
P.O. Box 550
Richland, Washington 99352

Project Hanford Management Contractor for the
U.S. Department of Energy under Contract DE-AC06-96RL13200

Approved for Public Release
(Upon receipt of Clearance approval)
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DR Pratt, Fluor Hanford

February 2004

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Introduction

This report provides information required to be reported annually by the Washington Administrative Code (WAC) 173-303-071 (3)(r)(ii)(F) and (3)(s)(ix) on the treatability studies conducted by various laboratories for the Hanford Site in 2003. These studies were conducted in accordance with WAC 173-303-071, "Excluded Categories of Waste," to determine whether the waste is amenable to the treatment process, what pre-treatment may be required, the optimal treatment conditions, the efficiency of the process, etc.

Unless otherwise noted, the waste samples were provided by and the treatability studies were performed for the U.S. Department of Energy, Richland Operations Office, P.O. Box 550, Richland, Washington 99352. The U.S. Environmental Protection Agency identification number for these studies is WA7890008967.

In general, data and information reported herein are as follows:

- The amount of waste shipped for study;
- The name, address, and EPA/state identification number of the laboratory or testing facility conducting the treatability studies;
- The date the shipment was made;
- The types (by process) of treatability studies conducted;
- The names and addresses of persons for whom studies have been conducted (including their EPA/state identification numbers);
- The total quantity of waste in storage each day;
- The quantity and types of waste subjected to treatability studies;
- When each treatability study was conducted;
- The final disposition of residues and unused sample from each treatability study (e.g., whether or not unused samples and residues were returned to the generator).

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**2003 ANNUAL REPORT FOR SMALL-QUANTITY TREATABILITY STUDIES CONDUCTED BY
FLUOR HANFORD AND ITS MAJOR SUBCONTRACTORS**

Laboratory Location	Waste Type	Total Quantity in Storage (Daily)	Technology Tested	Dates of Study	Amount Tested Jan.-Dec. 2003 (or in Process)	Amount to Be Tested Jan.-Dec. 2004	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
WSCF	Treated sample residue of K-Basin sludge	2 kg 11/1/03-12/31/03	Solidification	12/1/03- 12/15/03	2 kg	1.5-5 kg	Will be returned to customer	Will be returned to customer	NA	NA

NA Not applicable

**2003 ANNUAL REPORT FOR SMALL-QUANTITY TREATABILITY STUDIES CONDUCTED BY
PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL)**

Laboratory Location	Waste Type	Total Quantity in Storage (Daily)	Technology Tested	Dates of Study	Amount Tested Jan.-Dec. 2003 (or in Process)	Amount to Be Tested Jan.-Dec. 2004	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
PNNL 325 Building	DST - SY-102/ SST- SX-101	0 Kg	Caustic Washing	7/22/03-9/30/03	0.145 Kg	0 kg	NA, Sample consumed in Treatment	CWC	0 kg	NA
		1/1/03-7/21/03								
		0.145 Kg								
		7/22/03-9/30/03								
PNNL 325 Building	DSTs - AZ-101/ AP-101	0 Kg	Vitrification	3/11/03-9/30/03	1.30 Kg	0 kg	NA, Sample consumed in Treatment	CWC	0 kg	NA
		1/1/03-2/9/03								
		1.30 Kg								
		2/10/03-3/10/03								
PNNL 3720 Building	Melter condensate	1.03 Kg	Absorption	9/22/03-9/26/03	160 kg	0 kg	NA, Sample consumed in Treatment	TERIS ⁽¹⁾	NA	NA
		3/11/03-9/30/03								
		0 Kg								
		9/30/03-12/31/03								
PNNL 3720 Building	Melter condensate	0 kg	Absorption	9/22/03-9/26/03	160 kg	0 kg	NA, Sample consumed in Treatment	TERIS ⁽¹⁾	NA	NA
		1/1/03-9/21/03								
		160 kg								
		9/22/03-9/26/03								
PNNL 3720 Building	Melter condensate	0 kg	Absorption	9/22/03-9/26/03	160 kg	0 kg	NA, Sample consumed in Treatment	TERIS ⁽¹⁾	NA	NA
		9/27/03-12/31/03								

NA -- Not applicable;

DST -- Hanford Double-Shell Tank

SST -- Hanford Single-Shell Tank

(1) TERIS/ENSCO Treatment and Disposal facility, ARD069748192, 309 American Circle, El Dorado, AR 71730.

**2003 ANNUAL REPORT FOR SMALL-QUANTITY TREATABILITY STUDIES CONDUCTED BY
SRTC AND PNNL FOR THE WASTE TREATMENT PLANT (WTP) PROJECT**

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
SRTC ⁽²⁾	DST - AN-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	2.01 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DST - AN-104	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	34.50 kg ⁽³⁾ 2.73 kg ⁽³⁾	10/20/03 ⁽³⁾ 6/30/03 ⁽³⁾
SRTC ⁽²⁾	DST - AN-107	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	2.50 kg ⁽³⁾ 11.8 kg ⁽³⁾ 2.95 kg ⁽³⁾	3/17/03 ⁽³⁾ 6/30/03 ⁽³⁾ 10/20/03 ⁽³⁾
SRTC ⁽²⁾	DST - AW-101	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	163.56 kg ⁽³⁾ 96.6 kg ⁽³⁾ 49.14 kg ⁽³⁾	3/17/03 ⁽³⁾ 6/30/03 ⁽³⁾ 10/20/03 ⁽³⁾
SRTC ⁽²⁾	DST -	NA	Various	NA	NA	NA	Material	Liquids -	33.63 kg ⁽³⁾	3/17/03 ⁽³⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
	AY-102		(characterization, filtration, IX, evaporation, vitrification)				archived for future use	222-S Solids - CWC	3.25 kg ⁽³⁾	6/12/03 ⁽³⁾
									6.60 kg ⁽³⁾	6/30/03 ⁽³⁾
									2.90 kg ⁽³⁾	10/20/03 ⁽³⁾
SRTC ⁽²⁾	DST - AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	0.80 kg ⁽³⁾	3/17/03 ⁽³⁾
									1.70 kg ⁽³⁾	6/30/03 ⁽³⁾
									3.20 kg ⁽³⁾	10/20/03 ⁽³⁾
SRTC ⁽²⁾	DST - AY-102/ SST - C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	5.30 kg ⁽³⁾	3/17/03 ⁽³⁾
									7.75 kg ⁽³⁾	6/12/03 ⁽³⁾
									13.58 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AN-104/ AN-107/ AW-101/ AY-102/ AZ-102/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	2.35 kg ⁽³⁾	10/20/03 ⁽³⁾
									27.85 kg ⁽³⁾	3/17/03 ⁽³⁾
									67.00 kg ⁽³⁾	10/20/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AN-102/ AN-103/ AZ-102/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Solids - CWC	3.37 kg ⁽³⁾	10/20/03 ⁽³⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
SRTC ⁽²⁾	DSTs - AN-104/ AW-101/ AN-107/ AZ-102/ AY-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Solids - CWC	17.85	10/20/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AN-107/ AN-104/ AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AN-107/ AN-104/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AN-107/ AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	1.60 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AN-104	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	2.60 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AN-107	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	24.70 kg ⁽³⁾	6/30/03 ⁽³⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
SRTC ⁽²⁾	DSTs - AW-101/ AN-107/ AN-104	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	1.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AY-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	5.60 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AY-102/ AN-107	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	1.60 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AY-102/ AN-107/ AN-104/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.90 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AY-102/ AN-107/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	7.12 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/ AY-102/ AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	1.60 kg ⁽³⁾	6/30/03 ⁽³⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
SRTC ⁽²⁾	DSTs - AW-101/AY-102/SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	3.50 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	4.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AW-101/AN-107	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	4.50 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/AN-104	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/AN-104/SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S Solids - CWC	6.70 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/AN-107	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.80 kg ⁽³⁾	6/30/03 ⁽³⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
SRTC ⁽²⁾	DSTs - AY-102/ AN-107/ AN-104/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.90 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/ AN-107/ AZ-102/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	0.80 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/ AZ-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	1.60 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AY-102/ AZ-102/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Liquids - 222-S	2.40 kg ⁽³⁾	6/30/03 ⁽³⁾
SRTC ⁽²⁾	DSTs - AZ-102/ AY-102/ AN-104/ SST C-106	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	Material archived for future use	Solids - CWC	2.90 kg ⁽³⁾	6/30/03 ⁽³⁾
PNNL ⁽⁴⁾	DST - SY-102	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	TBD ⁽⁶⁾	TBD ⁽⁶⁾	1.22 kg ⁽⁵⁾	7/22/03 ⁽⁵⁾

Laboratory Location	Waste Type	Total Quantity in Storage (Daily) ⁽¹⁾	Technology Tested	Dates of Study ⁽¹⁾	Amount Tested Jan.-Dec. 2003 (or in Process) ⁽¹⁾	Amount to Be Tested Jan.-Dec. 2004 ⁽¹⁾	Final Disposal of Unused Sample Portion	Final Disposal of Residues	Amount of Sample Shipped	Date of Shipment
PNNL ⁽⁴⁾	SST - SX-101	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	TBD ⁽⁶⁾	TBD ⁽⁶⁾	0.08 kg ⁽⁵⁾	7/22/03 ⁽⁵⁾
PNNL ⁽⁴⁾	DSTs - AN-106/ AN-107/ SST C-104	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	TBD ⁽⁶⁾	TBD ⁽⁶⁾	1.43 kg ⁽⁵⁾	8/5/03 ⁽⁵⁾
PNNL ⁽⁴⁾	DST AW-101/ SSTs - U-106/ BX-103	NA	Various (characterization, filtration, IX, evaporation, vitrification)	NA	NA	NA	TBD ⁽⁶⁾	TBD ⁽⁶⁾	1.02 kg ⁽⁵⁾	8/11/03 ⁽⁵⁾

NA -- Not Applicable;
SST -- Hanford Single-Shell Tank;
DST -- Hanford Double-Shell Tank;
CWC -- Central Waste Complex;
TBD -- To Be Determined

(1). Savannah River Technology Center (SRTC) and Pacific Northwest National Laboratory (PNNL) storage and test quantities are reported by either SRTC or PNNL. SRTC samples are managed according to the following strategy:

SRTC strategy for Hanford WTP Hazardous Waste Treatability Studies - To permit a series of multiple treatability studies to ensue while still observing the one year time frame for analytical material, the programs utilize archiving capability between studies. The treatability studies themselves will not exceed one year. Recordkeeping will:

- Count the amount of "as-received" material in archival storage against SRTC's total storage quantity,
- Document residues returned to Hanford and identify the quantity of original "as-received" material, and
- Maintain the amount of "as-received" material in a treatability study in accordance with 261.4(f)(3).

(2). Savannah River Technology Center (SRTC) laboratories, Building 773A, Aiken, S.C. 29802 (Lab No. 1890008989)

- (3). Amount and date of sample residue shipped from SRTC to Hanford Site for disposal.
- (4). Pacific Northwest National Laboratory, Radiochemical Processing Laboratory, Richland, WA (Lab No. 78900008967)
- (5). Amount and date of sample shipped to PNNL for testing.
- (6). Test programs applicable to material shipped in CY 2003 are underway. The quantity of residues generated as a result of these programs, when they are generated, their return dates, and final disposition are therefore TBD. PNNL will report the amount of material tested in 2003 and 2004.