

RECEIVED
MAR 28 1996
OSTI

TWRS Privatization Bibliography

Prepared by Contractor Support Team:
Pacific Northwest National Laboratory
Los Alamos National Laboratory
Argonne National Laboratory
Westinghouse Hanford Corporation

February 1996

Prepared for
the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830

Pacific Northwest National Laboratory
Richland, Washington 99352

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor Battelle Memorial Institute, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or Battelle Memorial Institute. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

PACIFIC NORTHWEST NATIONAL LABORATORY

operated by

BATTELLE

for the

UNITED STATES DEPARTMENT OF ENERGY

under Contract DE-AC06-76RLO 1830

Printed in the United States of America

Available to DOE and DOE contractors from the
Office of Scientific and Technical Information
P.O. Box 62, Oak Ridge, TN 37831;
prices available from (615) 576-8401.

Available to the public from the National Technical Information Service,
U.S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161

This document was printed on recycled paper.

DISCLAIMER

**Portions of this document may be illegible
in electronic image products. Images are
produced from the best available original
document.**

Background

The purpose of this bibliography is to present a select set of documents that may be of interest to the Offeror, covering a variety of subject areas related to the TWRS Privatization Project. This bibliography is not, nor is intended to be, exhaustive or complete. It was prepared with the intent of providing a sampling of representative documents potentially helpful to Offerors.

The documents referenced herein have been identified as representative of those potentially helpful to Offerors. This list of documents does not represent the full extent of available and potentially helpful information, nor should it be taken as a representation of documents determined to be of greater importance than other documents not referenced herein. There are numerous documents available to the public that are NOT cited in this bibliography; the Offeror is encouraged to perform searches for alternate sources of information.

The cited documents, and other relevant information, are available through several sources:

- 1) Benton Franklin County Law Library (Federal and Washington State codes)
Columbia Basin College
Attention: Stephanie Badalamente
Telephone No: (509) 547-0511 Ext. 290
- 2) Center for Environmental Management (DOE-EM)
Telephone No: (800) 736-3282
- 3) Hanford Technical Library
Telephone No: (509) 376-1606
Facsimile No: (509) 376-1422

Note: A limited number of documents will be provided by the Hanford Technical Library at no cost, generally in microfiche format; however, rush service is not available for off-site requests.

- 4) Internet Resources (there may be a fee for some services) —
 - ANSI Homepage – <http://www.ansi.org/>
 - ASME Homepage – <http://www.asme.org/>
 - ASTM Homepage – <http://www.astm.org/>
 - Code of Federal Regulations – <http://www.pls.com:8001/his/cfr.html/>
also, <http://www.counterpoint.com/>
 - DEARs – <http://apollo.osti.gov/procure/dear.html/>

- DOE Orders – <http://www.hr.doe.gov/>
 - DNFSB Recommendations – <http://www.dnfsb.gov/>
 - DOE Homepage – <http://www.doe.gov/>
 - FARs – <http://www.gsa.gov:80/far/>
 - Hanford Homepage – <http://www.hanford.gov/>
 - NUREG Homepage – <http://www.nrc.gov/>
 - PNL External Homepage – <http://www.pnl.gov:2080/>
 - RCW – The Revised Code of Washington is at <gopher://marvel.doc.gov:70/http703Aleginfo.leg.wa.gov/@/pub/rcw/>
 - TWRS Characterization On-line Document Library – http://www.hanford.gov/twrs/char.pub/doc_toc.htm/
 - U.S. Code – <http://www.law.cornell.edu/uscode/>
 - WAC – The Washington Administrative Code may be found at <gopher://cfr.counterpoint.com:3147/11/>
- 5) National Technical Information Service, telephone (800) 553-6847
 - 6) Office of Civilian Radioactive Waste Management (DOE-RW)
Telephone No: (800) 225-6972
 - 7) Public Request (primarily WHC documents and DOE documents)
Attention: Ms. Ann Sada
Telephone No: (509) 372-2420
Facsimile No: (509) 376-4989
 - 8) Richland Public Library (Federal and Washington State codes)
Telephone No: (509) 943-7457

Note:

¹ There is a duplicating charge of \$.10 per page, payable in advance.

Contents

The organization of this bibliography is by subject area. Some of the documents overlap subject areas, and may be presented in more than one. Additionally, assignment of a document to one subject area does not necessarily preclude that document from containing information relevant to other subject areas not identified. The subject areas include, in order of presentation:

- Waste Characterization
- Pre-treatment
- High-level Waste Immobilization
- Low-level Waste Immobilization
- Low-level Waste Melter Test Program
- Performance Assessment
- General
- Safety

In addition to this hard-copy document, this bibliography is also available in a searchable electronic format in the DOE Reading Room. The software is Windows Reference Manager. The electronic files may be searched on the DOE Reading Room computer or the files may be copied onto disk. The hard-copy of the document also may be duplicated.

Note: Due to the time required for the process of clearing internal documents for public release, a revision is planned for this document that will additionally contain those documents currently going through the clearance process. This expanded version will be available on, or about the time, of the Pre-proposal conference in early March, 1996.

Section A: Waste Characterization

- Agnew SF. 1995. *Hanford Defined Wastes: Chemical and Radionuclide Compositions*. LAUR-WR-94-2657 Rev. 2. Los Alamos National Laboratory, Los Alamos, NM.
- Antoniak ZI. 1993. *Historical Trends in Tank 241-SY-101 Waste Temperatures and Levels*. PNL-8880. Pacific Northwest Laboratory, Richland, WA.
- Antoniak ZI. 1994. *Historical Trends in Tank 241-SY-103 Waste Temperatures*. PNL-10058. Pacific Northwest Laboratory, Richland, WA.
- Antoniak ZI and Recknagle KP. 1995. *Thermal Modeling of Tanks 241-AW-101 and 241-AN-104 with the TEMPEST Code*. PNL-10683. Pacific Northwest Laboratory, Richland, WA.
- Babad H. 1993. *Tank Waste Chemistry - A New Understanding of Waste Aging*. WHC-SA-1694-FP. Westinghouse Hanford Company, Richland, WA.
- Baldwin JH. 1995. *Tank Characterization Report for Double-Shell Tank 241-AW-101*. WHC-SD-WM-ER-470 Rev. 0. Westinhouse Hanford Company, Richland, WA.
- Bredt PR and Tingey SM. 1996. *The Effect of Dilution on the Gas Retention Behavior of Tank 241-SY-103 Waste*. PNNL-10893. Pacific Northwest National Laboratory, Richland, WA.
- Brevick CH. 1994. *Historical Tank Content Estimate for the NE Quadrant of the Hanford 200 East Area*. WHC-SD-WM-ER-349 Rev. 0. ICF Kaiser Hanford Company, Richland, WA.
- Brevick CH, Gaddis LA, and Johnson ED. 1995. *Historical Tank Waste Content Estimate for the Northwest Quadrant of the Hanford 200 West Area*. WHC-SD-WM-ER-351 Rev. 0. ICF Kaiser Hanford Company, Richland, WA.
- Brevick CH, Gaddis LA, and Pickett WW. 1995. *Historical Tank Waste Content Estimate for the Southeast Quadron of the Hanford 200 Areas*. WHC-SD-WM-ER-350 Rev. 0. ICF Kaiser Hanford Company, Richland, WA.
- Brown TM, Eberlein SJ, and Kunthara TJ. 1995. *Tank Waste Characterization Basis*. WHC-SD-WM-TA-164 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-105*. WHC-SD-WM-ER-360 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-101*. WHC-SD-WM-ER-357 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-106*. WHC-SD-WM-ER-361 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-107*. WHC-SD-WM-ER-362 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Single-Shell Tank 241-C-110*. WHC-SD-WM-ER-367 Rev. 0-A. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Waste Report for Single-Shell Tank 241-B-110*. WHC-SD-WM-ER-368 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-103*. WHC-SD-WM-ER-359 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Delorenzo DS and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AP-102*. WHC-SD-WM-ER-358 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-109*. WHC-SD-WM-ER-402 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AW-102*. WHC-SD-WM-ER-363 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Single-Shell Tank 241-T-104*. WHC-SD-WM-ER-372 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Single-Shell Tank 241-S-104*. WHC-SD-WM-ER-370 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AW-105*. WHC-SD-WM-ER-364 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Double-Shell Tank 241-AW-106*. WHC-SD-WM-ER-365 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dicenso AT and Simpson BC. 1994. *Tank Characterization Report for Single-Shell Tank 241-T-105*. WHC-SD-WM-ER-369 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Dougherty LF. 1995. *Tank Characterization Report for Single-Shell Tank 241-B-20*. WHC-SD-WM-ER-371 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Edgemon GL and Anantatmula RP. 1995. *Hanford Waste Tank System Degradation Mechanisms*. WHC-SD-WM-ER-414. Westinghouse Hanford Company, Richland, WA.

Geeting JGH and Kurath DE. 1993. *Preliminary Assessment of Blending Hanford Tank Wastes.*
PNL-8589. Pacific Northwest Laboratory, Richland, WA.

Hanlon BM. 1995. *Waste Tank Summary for Month Ending XXXXXX (Latest Edition).*
WHC-EP-0182-84. Westinghouse Hanford Company, Richland, WA.

Herting DL and Tran TT. 1995. *Tank Characterization Report for Double-Shell Tank 241-SY-101.*
WHC-SD-WM-ER-409 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hodgson KM. 1995. *Tank Characterization Report for Double-Shell Tank 241-AZ-101.*
WHC-SD-WM-ER-410 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hodgson KM. 1995. *Tank Characterization Report for Double-Shell Tank 241-AW-103.*
WHC-SD-WM-ER-455 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-202.*
WHC-SD-WM-ER-477 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-B-103.*
WHC-SD-WM-ER-488 Rev. 0-A. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-201.*
WHC-SD-WM-ER-476 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-TY-104.*
WHC-SD-WM-ER-481 Rev. 0-A. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-U-201.*
WHC-SD-WM-ER-483 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-111.*
WHC-SD-WM-ER-475 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-BX-108.*
WHC-SD-WM-ER-407. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-107.*
WHC-SD-WM-ER-474 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-BX-101.*
WHC-SD-WM-ER-408 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-105.*
WHC-SD-WM-ER-489 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

- Kelly SE. 1996. *Tank Characterization Report for Single-Shell Tank 241-B-102*. WHC-SD-WM-ER-405 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Koreski GM and Strode JN. 1995. *Operational Waste Volume Projection*. WHC-SD-WM-ER-029 Rev. 21. Westinghouse Hanford Company, Richland, WA.
- McDuffie NG. 1994. *Synthetic Waste Chemical Mechanism Studies*. WHC-EP-0823. Westinghouse Hanford Company, Richland, WA.
- Onishi Y. 1995. *Dilution Physics Modeling: Dissolution/Precipitation Chemistry*. PNL-10815. Pacific Northwest Laboratory, Richland, WA.
- Pickett WW. 1993. *Data Gathering and Analysis for Specified Single-Shell Tanks*. WHC-SD-WM-ER-210 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Remund KM. 1995. *Historical Tank Content Estimate (HTCE) and Sampling Estimate Comparisons*. PNL-10840. Pacific Northwest Laboratory, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-101*. WHC-SD-WM-ER-473 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-101*. WHC-SD-WM-ER-454 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-TY-106*. WHC-SD-WM-ER-482 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-B-112*. WHC-SD-WM-ER-466 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-U-202*. WHC-SD-WM-ER-484 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-AX-102*. WHC-SD-WM-ER-472 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-U-204*. WHC-SD-WM-ER-486 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-BX-105*. WHC-SD-WM-ER-406 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.
- Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-203*. WHC-SD-WM-ER-478 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-SX-113*.
WHC-SD-WM-ER-480 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Sasaki LM. 1995. *Tank Characterization Report for Single-Shell Tank 241-U-203*.
WHC-SD-WM-ER-485 Rev. 0-B. Westinghouse Hanford Company, Richland, WA.

Schmittroth FA, DeLorenzo TH, Wootan DW, and Garbrick DY. 1995. *Inventories for Low-Level Waste Tank Waste*. WHC-SD-WM-RPT-164 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Schreiber RD. 1995. *Tank Characterization Report for Double-Shell Tank 241-AZ-102*.
WHC-SD-WM-ER-411 Rev. 0-A. Westinghouse Hanford Company, Richland, WA.

Sederburg JP. 1995. *Tank Characterization Report for Single-Shell Tank 241-C-108*.
WHC-SD-WM-ER-503 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Simpson BC and McCain DJ. 1995. *Historical Model Evaluation Data Requirements*.
WHC-SD-WM-DQO-018. Westinghouse Hanford Company, Richland, WA.

Tusler LA. 1995. *Tank Characterization Report for Double-Shell Tank 241-AW-104*.
WHC-SD-WM-ER-453 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Valenzuela BD and Jensen L. 1994. *Tank Characterization Report for Single-Shell Tank 241-T-107*.
WHC-SD-WM-ER-382 Rev. 0-A. Westinghouse Hanford Company, Richland, WA.

Winters WI. 1995. *Tank Characterization Report for Double-Shell Tank 241-SY-102*.
WHC-SD-WM-ER-366 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Section B: Pre-treatment

Bray LA, Amonette JE, Brown GN, Kafka TM, and Yates SF. 1995. *Efficient Separations and Processing Crosscutting Program: Develop and Test Sorbents, FY95 Annual Progress Report from October 1, 1994 to June 30, 1995*. PNL-10750. Pacific Northwest Laboratory, Richland, WA.

Bray LA, Carson KJ, and Elovich RJ. 1990. *Cesium Recovery Using Savannah River Laboratory Resorcinol-Formaldehyde Ion Exchange Resin*. PNL-7273. Pacific Northwest Laboratory, Richland, WA.

Bray LA, Carson KJ, and Elovich RJ. 1993. *Initial Evaluation of Sandia National Laboratory Prepared Crystalline Silicotitanates for Cesium Recovery*. PNL-8847. Pacific Northwest Laboratory, Richland, WA.

Bray LA and Fullam HT. 1996. "Recovery and Purification of Cesium- 137 from Purex Waste Using Synthetic Zeolites." *Advances in Chemistry Series*. No. 101:450-455.

Bray LA, Holton LK, Wise BM, Pope JM, and Carl DE. 1984. "Selection of a Reference Process for Treatment of the West Valley Alkaline Waste." *Proceedings of the American Nuclear Society International Topical Meeting - Fuel Reprocessing and Waste Management*. 1:345-356.

Bray LA, Kurath DE, Ross WA, Ploetz DK, and Mellinger GBEd. 1990. "Correlation of Laboratory Testing and Actual Operations for the West Valley Supernatant Treatment System." *Ceramic Transactions: Nuclear Waste Management III*. 9:529-538.

Brown GN, Adami SR, Bray LA, Bryan SA, Carlson CD, Carson KJ et al.1995. *Chemical and Radiation Stability of SuperLig^R 644, Resorcinol- Formaldehyde, and CS-100 Cesium Ion Exchange Materials*. PNL-10772. Pacific Northwest Laboratory, Richland, WA.

Brown GN, Bontha JR, Carlson CD, Carson KJ, DesChane JR, Elovich RJ et al.1995. *Ion Exchange and Removal of Cesium from Simulated and Actual Supernate from Hanford Tanks 241-SY-101 and 241-SY-103*. PNL-10792. Pacific Northwest Laboratory, Richland, WA.

Brown GN, Bray LA, and Elovich RJ. 1995. *Evaluation and Comparison of SuperLig^R 644, Resorcinol- Formaldehyde and CS-100 Ion Exchange Materials for the Removal of Cesium from Simulated Alkaline Supernate*. PNL-10486. Pacific Northwest Laboratory, Richland, WA.

Carl DE, Rykken LE, Stimmel JR, Marlow JH, Bray LA, and Wise BM. 1986. "Zeolite Variability in the WVDP HLW Glass Feed Streams." *Nuclear Waste Management II*. *Ceramic Advances*. (20):383-389.

Colton NG. 1995. *Sludge Pretreatment Chemistry Evaluation: Enhanced Sludge Washing Separation Factors*. PNL-10512. Pacific Northwest Laboratory, Richland, WA.

Hubler TL, Franz JA, Shaw WJ, Bryan SA, Hallen RT, Brown GN et al. 1995. *Synthesis, Structural Characterization, and Performance Evaluation of Resorcinol-Formaldehyde (R-F) Ion-Exchange Resin*. PNL-10744. Pacific Northwest Laboratory, Richland, WA.

Jensen RD. 1994. *Enhanced Sludge Washing Evaluation Plan*. WHC-EP-0805. Westinghouse Hanford Company, Richland, WA.

Kurath DE and Bray LA. 1994. Chapter 8.1. "Case Studies of Process Selection: Wastes at the West Valley Nuclear Site." pp. 121-127. Carleson TE, Chipman NA, Wai CM, editors. *Separation Techniques in Nuclear Waste Management*. CRC Press, New York, NY.

Kurath DE, Bray LA, Brooks KP, Brown GN, Bryan SA, Carlson CD et al. 1994. *Experimental Data and Analysis to Support the Design of an Ion Exchange Process for the Treatment of Hanford Tank Waste Supernatant Liquids*. PNL-10187. Pacific Northwest Laboratory, Richland, WA.

Kurath DE, Richmond WG, Bray LA, Bunker BC, and Jones EO. 1993. "Cesium Removal from Hanford Tank Waste." PNL-SA-21848. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ. 1994. *Pretreatment of Neutralized Cladding Removal Waste Sludge: Results of the Second Design Basis Experiment*. PNL-9747. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ, Bray LA, Kurath DE, Morrey JR, Swanson JL, and Wester DW. 1993. *Exploratory Study of Complexant Concentrate Waste Processing*. PNL-8438. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ and Rapko BM. 1994. *Washing and Alkaline Leaching of Hanford Tank Sludges: A Status Report*. PNL-10078. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ, Rapko BM, and Colton NG. 1994. *Washing and Caustic Leaching of Hanford Tank Sludges*. PNL-SA-23598. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ, Rapko BM, Wagner MJ, Carlson CD, and Barrington RJ. 1994. *Sludge Treatment and Extraction Technology Development: Results of FY 1993 Studies*. PNL-9387. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ and Swanson JL. 1993. *Pretreatment of Neutralized Cladding Removal Waste (NCRW) Sludge - Results of FY 1991 Studies*. PNL-8536. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ and Swanson JL. 1993. *Pretreatment of Plutonium Finishing Plant (PFP) Sludge: Report for the Period October 1990 - March 1992*. PNL-8601. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ and Swanson JL. 1995. *Pretreatment of Neutralized Cladding Removal Waste Sludge: Status Report*. PNL-8558. Pacific Northwest Laboratory, Richland, WA.

Lumetta GJ, Swanson JL, and Bray LA. 1993. "Radionuclide Separation for the Reduction of High-Level Waste Volume." *Proceedings of the 1993 International Conference on Nuclear Waste and Spent Fuel Management*. Edition 2. pp.367-373. American Society of Mechanical Engineers, New York, NY.

Marsh SF. 1995. *Effects of Soluble Organic Complexants and their Degradation Products on the Removal of Selected Radionuclides from High-Level Waste*. LA-13000. Los Alamos National Laboratory, Los Alamos, NM.

Orth RJ, Brooks KP, and Kurath DE. 1994. *Review and Assessment of Technologies for the Separation of Cesium from Acidic Media*. PNL-9874. Pacific Northwest Laboratory, Richland, WA.

Orth RJ, et.al. 1995. *Removal of Strontium and Transuranics from Hanford Tank Waste via Addition of Metal Cations and Chemical Oxidant - FY 1995 Test Results*. PNL-10766. Pacific Northwest Laboratory, Richland, WA.

Peiffer WA. 1995. *Sludge Washing*. WHC-SD-W236B-TI-006. Westinghouse Hanford Company, Richland, WA.

Rapko BM, Lumetta GJ, and Wagner MJ. 1995. *Washing and Caustic Leaching of Hanford Tank Sludges: Results of FY 1995 Studies*. PNL-10712. Pacific Northwest Laboratory, Richland, WA.

Rimshaw SJ, Case FN, and Tompkins JA. 1980. *Volatility of Ruthenium-106, Technetium-99, and Iodine-129, and the Evolution of Nitrogen Oxide Compounds During the Calcination of High-Level Radioactive Nitric Acid Waste*. ORNL-5562. Oak Ridge National Laboratory, Oak Ridge, TN.

Sharp SD, Bray LA, Eakin DE, Larson DE, and Nankani FD. 1990. "Removal of Dissolved and Suspended Radionuclides from HWVP Liquid Wastes." WHC-SA-1005.FP. Westinghouse Hanford Company, Richland, WA.

Slaathaug EJ, Peiffer WA, and Boomer KD. 1995. *Determine Waste Separations Process Trade Study*. WHC-SD-WM-ES-356 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Straalsund JL, Swanson JL, Baker EG, Holmes JJ, Jones EO, and Kuhn WL. 1992. *Clean Option: An Alternative Strategy for Hanford Tank Waste Remediation*. PNL-8388, Vol. 1. Pacific Northwest Laboratory, Richland, WA.

Swanson JL. 1993. *Clean Option: An Alternative Strategy for Hanford Tank Waste Remediation*. PNL-8388, Vol. 2. Pacific Northwest Laboratory, Richland, WA.

Val Tuyl HH and Bray LA. 1961. *Recovery of Cesium from Purex Tank Farm Supernatant Solution by Ferrocyanide Precipitation and Absorption on Decalco*. HW-70874. General Electric Company, Richland, WA.

Section C: High-Level Waste Immobilization

Andrews MK and Bibler NE. 1994. "Radioactive Demonstration of DWPF Product Control Strategy." *Ceramic Transactions*. 39:205-211.

Andrews MK, et al. 1996. "Initial Demonstration of the DWPF Vitrification Process and Product Control Strategy Using Actual Radioactive Waste." *Nuclear Waste Management*. IV:569-576.

Barnes SM. 1980. *High-Temperature Vitrification of Hanford Residual-Liquid Waste in a Continuous Melter*. PNL-3343. Pacific Northwest Laboratory, Richland, WA.

Bates SO, Piepel GF, and Johnston JW. 1989. *Leach Testing of Simulated Hanford Waste Vitrification Plant Reference Glass HW-39*. PNL-6884. Pacific Northwest Laboratory, Richland, WA.

Bickford DF, Applewhite-Ramsey A, Jantzen CM, and Brown KG. 1990. "Control of Radioactive Waste Glass Melters - Part I. Preliminary General Limits at Savannah River." *Journal of the American Ceramic Society*. 73(10):2896-2902.

Bickford DF and Choi AS. 1991. "Control of High Level Radioactive Waste-Glass Melters - Part 5: Modeling of Complex Redox Effects." *Ceramic Transactions: Nuclear Waste Management IV*. 23:267-281.

Bickford DF and Jantzen CM. 1986. "Devitrification of Defense Nuclear Waste Glasses: Role of Melt Insoluble." *Journal of Non-Crystalline Solids*. 84(1-3):299-307.

Calmus RB. 1995. *High Level Waste Melter Alternatives Assessment Report*. WHC-EP-0847. Westinghouse Hanford Company, Richland, WA.

Calmus RB and Eisenstatt LR. 1995. *High-Level Waste Melter Alternatives Assessment - Compilation of Information Generated During Assessment*. WHC-MR-0490. Westinghouse Hanford Company, Richland, WA.

Claghorn RD. 1995. *Data for a Production-Scale High-Level Waste Immobilization Facility Decision Analysis*. WHC-SD-WM-DP-152. Westinghouse Hanford Company, Richland, WA.

Cooper MF, Elliott ML, Eyler LL, Freeman CJ, Higginson JJ, Mahoney LA et al. 1994. *Research-Scale Melter Test Report*. PNL-9428. Pacific Northwest Laboratory, Richland, WA.

Crow KR, et al. 1987. *Summary of Campaigns SGM-4 and SGM-5 of the Defense Waste Processing Facility Scale Glass Melter*. DPST-87-247. Savannah River Laboratory, Aiken, SC.

DOE. 1981. *The Evaluation and Review of Alternative Waste Forms for Immobilization of High-Level Radioactive Wastes*. DOE/TIC-11472. U.S. Department of Energy, Office of Nuclear Waste Management, Germantown, MD.

DOE. 1990. *Evaluation and Selection of Borosilicate Glass as the Waste Form for Hanford High-Level Radioactive Waste*. DOE/RL-90-27, Rev. 1. U.S. Department of Energy, Project Technical Support Office, Washington, D.C.

Elliott ML, Eyster LL, Mahoney LA, Cooper MF, Whitney LD, and Shafer PJ. 1994. *Preliminary Melter Performance Assessment Report*. PNL-9822. Pacific Northwest Laboratory, Richland, WA.

Elmore MR and Jensen GA. 1991. *Materials Selection for Process Equipment in the Hanford Waste Vitrification Plant*. PNL-7729. Pacific Northwest Laboratory, Richland, WA.

Goles RW and Nakaoka RK. 1990. *Hanford Waste Vitrification Program Pilot-Scale Ceramic Melter Test 23*. PNL-7142. Pacific Northwest Laboratory, Richland, WA.

Grunewald WG, Roth, Tobie W, and Weisenburger S. 1993. "Progress Achieved in HLW Vitrification Techniques at INEL." *Proceedings of the 1993 International Conference on Nuclear Waste Management and Environmental Remediation*. Vol. 1. pp.113-118. Idaho Nuclear Environmental Laboratory, Idaho Falls, ID.

Hrma PR and Cobb WT. 1991. *Behavior of RuO₂ in a Glass Melt*. PNL-SA-19544. Pacific Northwest Laboratory, Richland, WA.

Jantzen CM. 1991. "First Principles Process-Product Models for Vitrification of Nuclear Waste: Relationship of Glass Composition to Glass Viscosity, Resistivity, Liquidus Temperature, and Durability." *Nuclear Waste Management IV*. (N/A):37-51.

Kalia J. 1992. *Hanford Waste Vitrification Plant Project Functional Design Criteria*. WHC-SD-HWV-FDC-001 Rev. 5. Westinghouse Hanford Company, Richland, WA.

Kalia J. 1992. *Hanford Waste Vitrification Plant Project Technical Data Package*. WHC-SD-HWV-DP-001 Rev. 6. Westinghouse Hanford Company, Richland, WA.

Kim DS and Hrma P. 1994. "Models for Liquidus Temperature of Nuclear Waste Glasses." *Ceramic Transactions*. 45(N/A):327-337.

Lammerts HE, Mers E, and Halasovich ST. 1985. "Technetium Volatilization During HLLW Vitrification." *Proceedings of Materials Research Society Symposium*. 44:823-829.

Nankani FD and Guberski JD. 1995. *Disposition of Cesium and Strontium Capsules Engineering Data Package for the Tank Waste Remediation System Environmental Impact Statement*. WHC-SD-WM-DP-087. Westinghouse Hanford Company, Richland, WA.

Nezhentsev VV, Petrov YB, Zhilin AA, and Dymshits OS. 1987. "Use of Induction Furnaces with a Cold Crucible for Melting Hard Glasses (Review)." *Glass and Ceramics*. 43(9-10):391-396.

Patello GK, et.al. 1995. *Evaluation of HWVP Feed Preparation Chemistry for an NCAW Stimulant - Fiscal Year 1993: Effect of Noble Metals Concentration on Offgas Generation and Ammonia Formation.* PNL 10255. Pacific Northwest Laboratory, Richland, WA.

Perez JM, Nakaoka RK, Post RGE, and Wacks ME, Ed. 1986. "Vitrification Testing of Simulated High-Level Radioactive Waste from Hanford." *Proceedings of Symposium on Waste Management '86.* 2(N/A):495-505.

Piepel GF, et.al. 1993. *First-Order Study of Property/Composition Relationships for Hanford Waste Vitrification Plant Glasses.* PNL-8502. Pacific Northwest Laboratory, Richland, WA.

Ramsey WG, Jantzen CM, and Bickford DF. 1991. "Redox Analyses of SRS Melter Feed Slurry: Interactions between Nitrate, Formate, and Phenol Based Dopants." *Nuclear Waste Management IV.* (N/A):259-266.

Richards RS and Lacksonen JW. 1991. "Stir-Melter™ Vitrification of Simulated Radioactive Waste, Fiber Glass Scrap, and Municipal Waste Combustor Fly Ash." *Nuclear Waste Management IV.* (N/A):309-320.

Ritter JA, Zamecnik JR, and Hsu CW. 1992. "Hydrogen Generation During Treatment of Simulated High-Level Radioactive Waste with Formic Acid." *Proceedings of the Third International Conference on High Level Radioactive Waste Management,* pp.549-556.

Ross WA and Mendel JE. 1979. *Annual Report on the Development and Characterization of Solidified Forms for High-Level Wastes: 1978.* PNL-3060. Pacific Northwest Laboratory, Richland, WA.

Ryan JL. 1995. *Redox Reaction and Foaming in Nuclear Waste Glass Melting.* PNL-10510. Pacific Northwest Laboratory, Richland, WA.

Schreiber HD. 1985. "The Chemistry of Uranium in Borosilicate Glasses: Part 5. The Ferric-Ferrous Couple as a Potential Redox Buffer for the Uranium Redox State Distribution Against Oxidizing Agents in a Borosilicate Melt." *Physics and Chemistry of Glasses.* 6((1)):24-30.

Schreiber HD and Balazs GB. 1982. "The Chemistry of Uranium in Borosilicate Glasses: Part I. Simple Base Compositions Relevant to Nuclear Waste Immobilization." *Physics and Chemistry of Glasses.* 23(5):139-146.

Schreiber HD, Balazs GB, Jamison PL, and Shaffer AP. 1982. "The Chemistry of Uranium in Borosilicate Glasses: Part 2. Base Compositions Containing Titanium Relevant to the Immobilization of Nuclear Waste." *Physical Chemistry of Glasses.* 23(5):147-153.

Schreiber HD, Balazs GB, and Kozak SJ. 1983. "Chemistry of Uranium in Glass-Forming Melts: Redox Interactions of Uranium with Chromium and Iron in Aluminosilicates." *Journal of American Ceramic Society.* 66(5):340-346.

Section D: Low-Level Waste Immobilization

Bagaasen LM. 1993. *106-AN Grout Pilot-Scale Test HGTP-93-0501-02*. PNL-8618. Pacific Northwest Laboratory, Richland, WA.

Cowgill MG. 1991. *A Comparison of Solidification Media for the Stabilization of Low-Level Radioactive Wastes*. BNL 52304. Brookhaven National Laboratory, Upton, NY.

Crichton SN and Tomoza M. 1995. *Effects of Minor Components on Phase Separation of Simulated Nuclear Waste Glasses*. Annual Report to Battelle Pacific Northwest Laboratory. Rensselaer Polytechnic Institute, Troy, NY.

Epstein JL, et.al. 1993. *Low-Level Waste Disposal - Grout Issue and Alternative Waste Form Technology*. WHC-SA-1708-FP. Westinghouse Hanford Company, Richland, WA.

Freeman CJ, Abrigo GP, Shafer PJ, and Merrill RA. 1995. *Literature Review of Arc/Plasma, Combustion, and Joule-Heated Melter Vitrification Systems*. PNL-10666. Pacific Northwest Laboratory, Richland, WA.

Higley BA, Johnke AF, and Johnson LJ. 1995. *Evaluation of Low-Level Waste Forms for Immobilization of Hanford Site Tank Wastes*. WHC-SD-WM-ES-319. Westinghouse Hanford Company, Richland, WA.

Kalb PD, et.al. 1992. *Polyethylene Encapsulation of Single-Shell Tank Low-Level Wastes*. BNL 52365. Brookhaven National Laboratory, Upton, NY.

Li H. 1995. "Effects of Minor Components on Low-Level Simulated Nuclear Waste Glasses." Institute of Nuclear Materials Management, 36th Annual Institute of Nuclear Materials Management Meeting.

Li H. 1995. "Chemical Durability of Low-Level Simulated Nuclear Waste Glasses with High Concentrations of Minor Components." Institute of Nuclear Materials Management, 36th Annual Institute of Nuclear Materials Management Meeting.

Lokken RO and Bagaasen LM. 1993. *Characterization Results for 106-AN Grout Produced in a Pilot-Scale Test*. PNL-8655. Pacific Northwest National Laboratory, Richland, WA.

Lokken RO and Martin PFC. 1993. *Formulation Verification Study Results for 241-AN-106 Waste Grout*. PNL-8626. Pacific Northwest National Laboratory, Richland, WA.

Lokken RO, Martin PFC, and Shade JW. 1992. *Characterization of Double-Shell Slurry Feed Grout Produced in a Pilot-Scale Test*. PNL-7979. Pacific Northwest National Laboratory, Richland, WA.

Martin PFC and Lokken RO. 1993. *Characterization of Phosphate/Sulfate Waste Grout Cores*. PNL-8620. Pacific Northwest National Laboratory, Richland, WA.

Mayberry JL and DeWitt LM. 1993. *Technical Area Status Report for Low-Level Mixed Waste Final Waste Forms*. DOE/MWIP-3. Science Applications International Corporation, Idaho Falls, ID.

Mitchell DE. 1995. *Immobilized Low-Level Waste Disposal Options Configuration Study*. WHC-SD-WM-TI-686. Westinghouse Hanford Company, Richland, WA.

Murphy JA, Pincock LF, and Christiansen IN. 1994. *ICCP Radioactive Liquid and Calcine Waste Technologies Evaluation Final Report and Recommendations*. INEL-94/0119. Idaho National Engineering Laboratory, Idaho Falls, ID.

Shade JW. 1994. *Preliminary Low-Level Waste Feed Definition Guidance - LLW Pretreatment Interface*. WHC-SD-WM-RD-052 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Section E: Low-level Waste Melter Test Program

Eaton WC. 1995. *U.S. Bureau of Mines, Phase 1 Hanford Low-Level Waste Melter Tests: Final Report.* WHC-SD-WM-VI-030 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *GTS Duratek, Phase 1 Hanford Low-Level Waste Melter Tests: 100-kg Melter Offgas Report.* WHC-SD-WM-VI-028 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *Test Plan: Phase 1 Demonstration of 3 Phase Electric Arc Melting Furnace Technology for Vitrifying High-Sodium Content Low-Level Radioactive Liquid Wastes.* WHC-SD-WM-VI-021 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *GTS Duratek, Phase 1 Low-Level Waste Melter Tests: Final Report.* WHC-SD-WM-VI-027 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *Test Plan: Phase 1 Hanford LLW Melter Tests, GTS Duratek, Inc.* WHC-SD-WM-VI-020 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *GTS Duratek, Phase 1 Hanford Low-Level Waste Melter Tests: 1,000-kg Melter Offgas Report.* WHC-SD-WM-VI-029 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Eaton WC. 1995. *U.S. Bureau of Mines, Phase 1 Hanford Low-Level Waste Melter Tests: Melter Offgas Report.* WHC-SD-WM-VI-032 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hendrickson DW. 1994. *Test Plan for Evaluation of Plasma Melter Technology for Vitrification of High-Sodium Content Low-Level Radioactive Liquid Wastes.* WHC-SD-WM-VI-011 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hendrickson DW. 1995. *Evaluation of Plasma Melter Technology for Vitrification of High-Sodium Content Low-Level Radioactive Liquid Wastes--Demonstration Test Number 4 Final Test Report.* WHC-SD-WM-VI-016 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Higley BA. 1995. *Glass Melter System Technologies for Vitrification of High-Sodium-Content Low-Level, Radioactive, Liquid Wastes--Phase 1: SBS Demonstration with Simulated Low-Level Waste--Final Test Report.* WHC-SD-WM-VI-024 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Higley BA. 1995. *Test Plan for Glass Melter System Technologies for Vitrification of High-Sodium Content Low-Level Radioactive Liquid Wastes, Project Number Rdd-43288.* WHC-SD-WM-VI-018 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Higley BA. 1995. *Babcock & Wilcox Phase 1 Technical Information Report, Cyclone Combustion Melter Demonstration.* WHC-SD-WM-VI-025 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Kelly SE. 1995. *Penberthy Electromelt International, Inc. Test Plan for Phase 1 Low-Level Waste Vitrification Melter Demonstration*. WHC-SD-WM-VI-026 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Manuel AF. 1995. *Material Balances for Alternative Melter Low-Level Waste Process Flowsheets*. WHC-SD-WM-ES-354 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Mast ES and Eaton EC. 1995. *Low-Level Waste Vitrification Phase 1 Vendor Test Sample Analysis Data*. WHC-SD-WM-DP-131 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Shade JW. 1994. *Waste Stimulant Development for Evaluation of LLW Melter System Technology*. WHC-SD-WM-TI-624 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Whyatt GA. 1994. *Pilot-Scale Production of Grout with Simulated Double-Shell Slurry Feed*. PNL-9746. Pacific Northwest Laboratory, Richland, WA.

Wilson CN. 1995. *Evaluation of Melter System Technologies for Vitrification of High Sodium Radioactive Liquid Wastes - Statement of Work*. WHC-SD-WM-RD-044 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wilson CN. 1995. *Envitco, Inc. Phase 1 Test Plan for Low-Level Waste Melter Demonstration*. WHC-SD-WM-VI-022 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wilson CN. 1996. *Low-Level Waste Vitrification Vendor Testing Program Phase 1 Cold Top Electric Melt Trials Assessment Report*. WHC-SD-WM-RPT-205 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wilson CN, Burgard KC, Weber ET, and Brown NR. 1995. *Melter Technology Evaluation for Vitrification of Hanford Site Low-Level Waste*. WHC-SA-2857-FP. Westinghouse Hanford Company, Richland, WA.

Section F: Performance Assessment

Boomer KD. 1994. *Tank Waste Remediation System Facility Configuration Study*. WHC-SD-WM-ES-295 Rev. 0. Westinghouse Hanford Company, Richland, WA.

DOE. 1982. *Environmental Assessment-Waste Form Selection for SRP High-Level Waste*. DOE/EA 0179. U.S. Department of Energy, Washington, D. C.

Jantzen CM and Bibler NE. 1993. *Characterization of the Defense Waste Processing Facility (DWPF) Environmental Assessment (EA) Glass Standard Reference Material*. WSRC-TR-92-346 Rev. 1. Westinghouse Savannah River Company, Aiken, SC.

Kincaid CT, Shade JW, and Whyatt GA, et. al. 1995. *Performance Assessment of Grouted Double-Shell Tank Waste Disposal at Hanford*. WHC-SD-WM-EE-004 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Mann FM, Eiholzer CR, Kline NW, McGrail BP, and Piepho MG. 1995. *Impacts of Disposal System Design Options on Low-Level Glass Waste Disposal System Performance*. WHC-EP-0810. Westinghouse Hanford Company, Richland, WA.

Section G: Safety

Agnew SF. 1993. *Analysis of the History of 241-C-Farm*. LAUR-93-3605. Los Alamos National Laboratory, Los Alamos, NM.

Allemann RT. 1994. *Some Theories of Dissolved Gas Release from Tank 241-SY-101*. PNL-10091. Pacific Northwest Laboratory, Richland, WA.

Allemann RT, et al. 1994. *Mitigation of Tank 241-SY-101 by Pump Mixing: Results of Testing Phases A and B*. PNL-9423. Pacific Northwest Laboratory, Richland, WA.

Anantmula RP, Schwenk EB, and Danielson MJ. 1994. *Characterization of the Behavior of the Carbon Steel Liner in Hanford Site Single-Shell Tanks*. WHC-EP-0772. Westinghouse Hanford Company, Richland, WA.

Aquirre H. 1995. *242-A Evaporator/Crystallizer Final Safety Analysis Report*. WHC-SD-WM-SAR-023 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Babad H. 1992. *Mitigation/Remediation Concepts for Hanford Site Flammable Gas Generating Waste Tanks*. WHC-EP-0516. Westinghouse Hanford Company, Richland, WA.

Babad H. 1993. *A Strategy for Resolving High-Priority Hanford Site Radioactive Waste Storage Tank Safety Issues*. WHC-SA-1661-FP. Westinghouse Hanford Company, Richland, WA.

Babad H. 1993. *Resolving the Safety Issue for Radioactive Waste Tanks with High Organic Carbon*. WHC-SA-1671-FP. Westinghouse Hanford Company, Richland, WA.

Barefield EK, et al. 1995. *Flammable Gas Safety Program, Mechanisms of Gas Generation from Simulated SY Tank Farm Wastes: FY 1994 Progress Report*. PNL-10822. Pacific Northwest Laboratory, Richland, WA.

Barnes SM and Larson DE. 1981. *Materials and Design Experience in a Slurry-Fed Electric Glass Melter*. PNL-3959. Pacific Northwest Laboratory, Richland, WA.

Beaver TR. 1993. *Thermal Analysis for Tank 241-SY-101*. WHC-SD-WM-ER-296. Westinghouse Hanford Company, Richland, WA.

Becker DL. 1990. *Non Stabilized Single Shell Tank Hazard Identification and Evaluation*. WHC-SD-WM-SAR-022 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Becker DL. 1991. *Single Shell Tank Isolation Safety Analysis Report*. WHC-SD-WM-SAR-006 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Bell ML. 1993. *Single Shell Tank Waste Characterization Project and Safety Analysis Project Core 34, 35, and 36, Validation Report Tank 241-C-112*. WHC-SD-WM-DP-026. Westinghouse Hanford Company, Richland, WA.

Benar CJ. 1995. *Flammable Gas Tank Safety Program: Data Requirements for Core Sample Analysis Developed Through the Data Quality Objective Process*. WHC-SD-WM-DQO-004 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Bergmann LM. 1991. *Operational Safety Analysis Report Cross-country Waste Transfer System*. WHC-SD-WM-SAR-039 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Bloom GR. 1995. *Characterization Data Needs for Development, Design, and Operation of Retrieval Equipment Developed Through the Data Quality Objective Process*. WHC-SD-WM-DQO-008. Westinghouse Hanford Company, Richland, WA.

Boomer KD. 1994. *TWRS Facility Configuration Study, Appendix C, Detached High-Level Waste Treatment Facility*. WHC-SD-WM-ES-295 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Boomer KD, et al. 1993. *Tank Waste Technical Options Report*. WHC-EP-0616, Rev. 0. Westinghouse Hanford Company, Richland, WA.

Boyles VC. 1989. *Safety Analysis Report Stabilization of Single-Shell Waste Storage Tanks by Salt Well Jet Pumping*. WHC-SD-WM-SAR-034 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Brager HR. 1994. *Summary of Information on Flammable Gas Watch List Tanks*. WHC-EP-0711. Westinghouse Hanford Company, Richland, WA.

Braun DJ. 1994. *High-Level Waste Tank Subcriticality Safety Assessment*. WHC-SD-WM-SARR-003 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Bredt PR, Tingey SM, and Shade EH. 1995. *The Effect of Dilution on the Gas-Retention Behavior of Tank 241-SY-101 Waste*. PNL-10781. Pacific Northwest Laboratory, Richland, WA.

Brewster ME, Gallagher NB, Hudson JD, and Stewart CW. 1995. *The Behavior, Quantity, and Location of Undissolved Gas in Tank 241-SY-101*. PNL-10681. Pacific Northwest Laboratory, Richland, WA.

Bryan SA and Pederson LR. 1994. *Composition, Preparation, and Gas Generation Results from Simulated Wastes of Tank 241-SY-101*. PNL-10075. Pacific Northwest National Laboratory, Richland, WA.

Bryan SA and Pederson LR. 1995. *Thermal and Combined Thermal and Radiolytic Reactions Involving Nitrous Oxide, Hydrogen, and Nitrogen in the Gas Phase: Comparison of Gas Generation*

Rates in Supernate and Solid Fractions of Tank 241-SY-101 Simulated Waste. PNL-10490. Pacific Northwest National Laboratory, Richland, WA.

Bryan SA, Pool KH, Bryan SL, Sell RL, and Thomas LMP. 1993. *Ferrocyanide Safety Project - Task 3.5 Cyanide Species Analytical Methods Development FY 1993 Annual Report.* PNL-8887. Pacific Northwest Laboratory, Richland, WA.

Bryan SA, Pool KH, Bryan SL, Sell RL, Thomas LMP, and Lerner BD. 1994. *Ferrocyanide Safety Program Cyanide Speciation Studies FY 1994 Annual Report.* PNL-10151. Pacific Northwest National Laboratory, Richland, WA.

Bryan SA, et al. 1993. *Ferrocyanide Safety Program - Task 3.5 Cyanide Speciation Studies.* PNL-8399. Pacific Northwest Laboratory, Richland, WA.

Buckley LL. 1995. *Data Quality Objectives for Tank Hazardous Vapor Safety Screening.* WHC-SD-WM-DQO-002 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Burger LL. 1984. *Complexant Stability Investigations. Task 1. Ferrocyanide Solids.* PNL-5441. Pacific Northwest Laboratory, Richland, WA.

Burger LL. 1995. *Calculation of Reaction Energies and Adiabatic Temperatures for Waste Tank Reactions.* PNL-8557 Rev. 1. Pacific Northwest National Laboratory, Richland, WA.

Burger LL, Reynolds DA, Schulz WW, and Strachan DM. 1991. *A Summary of Available Information on Ferrocyanide Tank Wastes.* PNL-7822. Pacific Northwest Laboratory, Richland, WA.

Burger LL and Scheele RD. 1988. *Interim Report on Cyanide Safety Studies.* PNL-7175. Pacific Northwest Laboratory, Richland, WA.

Burger LL and Scheele RD. 1991. *The Reactivity of Cesium Nickel Ferrocyanide Towards Nitrate and Nitrite Salts--A Status Report.* PNL-7550. Pacific Northwest Laboratory, Richland, WA.

Burgeson IE, Bryan SE, and Burger LE. 1994. *Ferrocyanide Safety Project Interim Report FY 1994: Cesium Uptake Capacity of Simulated Ferrocyanide Tank Waste.* PNL-10160. Pacific Northwest Laboratory, Richland, WA.

Cady HH. 1992. *Evaluation of Ferrocyanide/Nitrate Explosive Hazard.* LA-12589-MS. Los Alamos National Laboratory, Los Alamos, NM.

Camaioni DM. 1994. *Organic Tanks Safety Program Waste Aging Studies.* PNL-10161. Pacific Northwest Laboratory, Richland, WA.

Camaioni DM. 1995. *Organic Tanks Safety Program, FY95 Waste Aging Studies.* PNL-10794, Rev. 1. Pacific Northwest National Laboratory, Richland, WA.

Campbell JA. 1994. *Waste Tank Organic Safety Program, Analytical Methods Development: FY 1994 Progress Report*. PNL-10128. Pacific Northwest National Laboratory, Richland, WA.

Campbell JA. 1994. *Flammable Gas Safety Program, Analytical Methods Development: FY 1994 Progress Report*. PNL-10127. Pacific Northwest Laboratory, Richland, WA.

Campbell JA. 1995. *Flammable Gas Safety Program, Organic Analysis and Analytical Methods Development: FY 1995 Progress Report*. PNL-10776. Pacific Northwest National Laboratory, Richland, WA.

Campbell JA. 1995. *Waste Tank Organic Safety Program: Advanced Organic Analysis and Analytical Methods Development: FY 1995 Progress Report*. PNL-10777. Pacific Northwest Laboratory, Richland, WA.

Cash RJ, Meacham JE, and Dukelow GT. 1995. *Quarterly Report on the Ferrocyanide Safety Program for the Period Ending March 31, 1995*. WHC-EP-0475-16. Westinghouse Hanford Company, Richland, WA.

Clauss TR, Lucke RB, McVeety B, Allwine KJ, and Fruchter JS. 1994. *Waste Tank Vapor Project: Vapor Characterization of Tank 241-C-103: Report for SUMMA Canister Samples Received 11/29/93*. PNL-10079. Pacific Northwest Laboratory, Richland, WA.

Clinton R. 1994. *Safety Evaluation for Adding Water to Tank 101SY*. WHC-SD-WM-SAD-016 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Cowley WL. 1994. *Evaluation of Hazards to Tank Farm Facilities From Lightning Strikes*. WHC-SD-WM-SARR-027 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Crowe RD. 1993. *Estimation of Heat Load in Waste Tanks Using Average Vapor Space Temperatures*. WHC-EP-0709. Westinghouse Hanford Company, Richland, WA.

Deichman JL. 1991. *Safety Assessment for Penetrometer Testing and Auger Sampling in Tanks that Generate Flammable Gases*. WHC-SD-WM-SAD-004 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Dodds JN and Thomson WJ. 1994. "DXRD Studies of Sodium Nickel Ferrocyanide Reactions with Equimolar Nitrate/Nitrite Salts." *Environmental Science Technology*. 28(5):882-889.

Dodds JN and Thomson WJ. 1994. *Ferrocyanide Safety Project: Dynamic X-ray Diffraction Studies of Sodium Nickel Ferrocyanide Reactions with Equimolar Nitrate/Nitrite Salts*. PNL-10050. Pacific Northwest Laboratory, Richland, WA.

DOE and Washington State Department of Ecology. 1995. *Preliminary Draft Environmental Impact Statement for the Tank Waste Remediation System*. DOE/EIS-0189. U.S. Department of Energy/Washington State Department of Ecology, Washington, D.C./Olympia, WA.

Dukelow GT. 1995. *Status Report on Resolution of Waste Tank Safety Issues at the Hanford Site.* WHC-EP-0600 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Epstein M, et al. 1994. *Ferrocyanide Safety Program: Assessment of the Possibility of Ferrocyanide Sludge Dryout.* WHC-EP-0816. Westinghouse Hanford Company, Richland, WA.

Erhart MF. 1992. *Evaluation of December 1991 Tank 241-SY-101 Gas Release Event.* WHC-SD-WM-PE-046 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Farley WG. 1992. *Safety Assessment for Sampling All Ferrocyanide Tanks.* WHC-SD-WM-SAD-009 Rev. 2a. Westinghouse Hanford Company, Richland, WA.

Farley WG. 1994. *Safety Assessment for Thermocouple Tree System Installation and Operation in Ferrocyanide Waste Tanks.* WHC-SD-WM-SAD-014 Rev. 3. Westinghouse Hanford Company, Richland, WA.

Fassbender LL, Henrion M, Fung R, Brothers AJ, Hesser WA, Franklin AL et al. 1994. *Waste Tank Safety Programmatic Risk Assessment Project, Final Report.* PNL-10207. Pacific Northwest Laboratory, Richland, WA.

Fauske HK. 1995. *The Contact-Temperature Ignition (CTI) Criteria for Propagating Chemical Reactions Including the Effect of Moisture and Application to Hanford Waste.* WHC-SD-WM-ER-496 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Fauske HK. 1995. *Ferrocyanide Safety Program: Final Report on Adiabatic Calorimetry and Tube Propagation Tests with Synthetic Ferrocyanide Materials.* WHC-SD-WM-ER-519 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Fauske HK and Cash RJ. 1995. *Ferrocyanide Safety Program: Waste Tank Sludge Rheology within a Hot Spot or during Draining - Homogeneous Flow Versus Flow through a Porous Medium.* WHC-EP-0713. Westinghouse Hanford Company, Richland, WA.

Fein KO. 1994. *Topical Report Tank Steam Intrusion.* WHC-SD-WM-SARR-014 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Fein KO. 1994. *Safety Accelerated Analysis and Topical Report Tank Dome Collapse.* WHC-SD-WM-SARR-013 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Foster JL. 1989. *Safety Analysis Report for Salt Well Waste Receiver Facility.* WHC-SD-WM-SAR-032 Rev. A. Westinghouse Hanford Company, Richland, WA.

Foster JL. 1989. *Safety Analysis Report for 241-A-350 Catch Tank.* WHC-SD-WM-SAR-033 Rev. A. Westinghouse Hanford Company, Richland, WA.

Fox GL. 1992. *Tank 241-SY-101 Crust Burn Analysis*. WHC-SD-WM-SAR-046 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Fox GL. 1993. *Tank 241-SY-103 Hazard Assessment*. WHC-SD-WM-SAR-061 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Fox GL. 1994. *Hazard Assessment of Double-Shell Flammable Gas Tanks*. WHC-SD-WM-SAR-064 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Gauglitz PA, Mahoney LA, Mendoza DP, and Miller MC. 1994. *Mechanisms of Gas Bubble Retention*. PNL-10120. Pacific Northwest Laboratory, Richland, WA.

Gauglitz PA, Rassat SD, Powell MR, Shah RR, and Mahoney LA. 1995. *Gas Bubble Retention and Its Effects on Waste Properties: Retention Mechanisms, Viscosity, and Tensile and Shear Strengths*. PNL-10740. Pacific Northwest National Laboratory, Richland, WA.

Gauglitz PA, Shah RR, and Davis RL. 1994. *Gas Distribution Effects on Waste Properties: Viscosities of Bubbly Slurries*. PNL-10112. Pacific Northwest Laboratory, Richland, WA.

Gerber MA. 1994. *Waste Tank Organic Safety Project Organic Concentration Mechanisms Task FY 1994 Progress Report*. PNL-10064. Pacific Northwest Laboratory, Richland, WA.

Geschke GR. 1995. *Safety Evaluation for the Interim Stabilization of Tank 241-C-103*. WHC-SD-WM-SARR-034 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Gilbert BH. 1993. *Hazards Identification and Evaluation Report for the Operation of the Grout Facilities and Near Surface Disposal of Grouted Phosphate - Sulfate Low Level Liquid Waste*. WHC-SD-WM-SAR-027 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Graves RD. 1994. *Topical Report on Flammable Gases in Non-Burping Waste Tanks*. WHC-SD-WM-SARR-015 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Grigsby JM, et al. 1991. *Ferrocyanide Waste Tank Hazard Assessment - Interim Report*. WHC-SD-WM-RPT-032 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Hallen RT, Burger LL, Hockey RL, Lilga MA, Scheele RD, and Tingey JM. 1992. *Ferrocyanide Safety Project FY 1991 Annual Report*. PNL-8165. Pacific Northwest Laboratory, Richland, WA.

Heard FJ. 1995. *Waste Tank 241-SY-101 Dome Airspace and Ventilation System Response to a Flammable Gas Plume Burn*. WHC-SD-WM-ER-515 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Herting DL. 1992. *Laboratory Characterization of Samples Taken in May 1991 from Hanford Waste Tank 241-SY-101*. WHC-SD-WM-DTR-024 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Herting DL. 1992. *Laboratory Characterization of Samples Taken in December 1991 (Window E) from Hanford Waste Tank 241-101-SY*. WHC-SD-WM-DTR-026 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Herting DL and Tingey JM. 1992. *Rheological Properties of Waste from Tank 101-SY*. WHC-SD-WM-TI-522 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Herting DL and Tingey JM. 1992. *Physical Measurements of Waste from Tank 241-SY-101 Window E*. WHC-SD-WM-TI-523 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hodgson KM. 1995. *Evaluation of Hanford Tanks for Trapped Gas*. WHC-SD-WM-ER-526 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hopkins JD. 1994. *Criteria for Flammable Gas Watch List Tanks*. WHC-EP-0702 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Hopkins JD. 1995. *Methodology for Flammable Gas Evaluations*. WHC-SD-WM-TI-724 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Huckaby JL. 1994. *Tank 241-C-103 Headspace Flammable*. WHC-EP-0734 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Hudson JD. 1995. *An Assessment of the Dilution Required to Mitigate Hanford Tank 241-SY-101*. PNL-10417. Pacific Northwest National Laboratory, Richland, WA.

Hunt JW. 1995. *Tank Safety Screening Data Quality Objectives*. WHC-SD-WM-SP-004 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Jeppson DW and Simpson BC. 1994. *Characterization and Reaction Behavior of Ferrocyanide Simulants and Hanford Site High-Level Ferrocyanide Waste*. WHC-SA-2190-FP. Westinghouse Hanford Company, Richland, WA.

Johnson GD. 1992. *Fiscal Year 1992 Program Plan for the Evaluation and Remediation of the Generation and Release of Flammable Gases in Hanford Site Waste Tanks*. WHC-EP-0537 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Johnson GD. 1994. *Data Requirements Developed through the Data Quality Objectives Process for the Crust Burn Issue Associated with Flammable Gas Tanks*. WHC-SD-WM-DQO-003 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Johnson GD. 1995. *Strategy for Resolution of the Flammable Gas Safety Issue*. WHC-SD-WM-TI-691. Westinghouse Hanford Company, Richland, WA.

- Johnson LJ. 1994. *Tank Waste Concentration Mechanism Study*. WHC-SD-WM-ES-310. Westinghouse Hanford Company, Richland, WA.
- Kummerer M. 1993. *Safety Assessment for Interim Stabilization of Ferrocyanide Tanks*. WHC-SD-WM-SAD-018 Rev. 1. Westinghouse Hanford Company, Richland, WA.
- Kummerer M. 1995. *Heat Removal Characteristics of Waste Storage Tanks*. WHC-SD-WM-SARR-010 Rev. 1. Westinghouse Hanford Company, Richland, WA.
- Lilga MA. 1995. *Ferrocyanide Safety Project, Ferrocyanide Aging Studies, FY 1995 Annual Report*. PNL-10713. Pacific Northwest National Laboratory, Richland, WA.
- Lilga MA, Alderson EV, Kowalski DJ, Lumetta MR, and Schiefelbein GF. 1994. *Ferrocyanide Safety Project: Task 3 Ferrocyanide Aging Studies FY 1994 Annual Report*. PNL-10126. Pacific Northwest Laboratory, Richland, WA.
- Lilga MA, Lumetta MR, Riemath WF, Romine RA, and Schiefelbein GF. 1992. *Ferrocyanide Safety Project: Subtask 3.4 Ferrocyanide Aging Studies FY 1992 Annual Report*. PNL-8387. Pacific Northwest Laboratory, Richland, WA.
- Lilga MA, Lumetta MR, and Schiefelbein GF. 1993. *Ferrocyanide Safety Project: Task 3 Ferrocyanide Aging Studies FY 1993 Annual Report*. PNL-8888. Pacific Northwest Laboratory, Richland, WA.
- Lindquist M. 1994. *Accelerated Safety Analysis - Structural Analysis Phase I -Structural Sensitivity Evaluation of Single-Shell and Double-Shell Waste Storage Tanks*. WHC-SD-WM-SARR-012 Rev. 1. Westinghouse Hanford Company, Richland, WA.
- Lipke EJ. 1995. *TWRS Safety Basis*. WHC-SD-WM-TA-165 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Mahoney LA and Trent DS. 1995. *Correlation Models for Waste Tank Sludges and Slurries*. PNL-10695. Pacific Northwest National Laboratory, Richland, WA.
- Marusich R. 1992. *Safety Assessment for Push M Ode Core Sampling Safety Assessment in Tank 101SY*. WHC-SD-WM-SAD-008 Rev. 0A. Westinghouse Hanford Company, Richland, WA.
- McGrail BP. 1994. *Ferrocyanide Tank Safety Project: Computational Analysis of Coupled Fluid, heat, and Mass Transport in Ferrocyanide Single-Shell Tanks: FY 1994 Interim Report*. PNL-10163. Pacific Northwest Laboratory, Richland, WA.
- McGrail BP, Trent DS, Terrones G, Hudson JD, and Michener TE. 1993. *Ferrocyanide Safety Program: Computational Analysis of Fluid Flow and Zonal Deposition in Ferrocyanide Single-Shell Tanks*. PNL-8876. Pacific Northwest Laboratory, Richland, WA.

- Meacham JE. 1995. *Approach for Tank Safety Characterization of Hanford Site Waste*. WHC-EP-0843. Westinghouse Hanford Company, Richland, WA.
- Meacham JE. 1995. *Data Requirements for the Ferrocyanide Safety Issued Developed Through the Data Quality Objectives Process*. WHC-SD-WM-DQO-007 Rev. 2. Westinghouse Hanford Company, Richland, WA.
- Meacham JE, Cash RJ, and Dukelow GT. 1996. *Quarterly Report on the Ferrocyanide Safety Program for the Period Ending XXXXXXXX*. WHC-EP-0474-(0-18). Westinghouse Hanford Company, Richland, WA.
- Milliken NJ. 1994. *Safety Assessment for Push and Rotary Mode Core Sampling in Ferrocyanide Tanks*. WHC-SD-WM-SAD-013 Rev. 3. Westinghouse Hanford Company, Richland, WA.
- Morton LA. 1993. *Safety Assessment for Tank 101SY Air Lance Removal*. WHC-SD-WM-SAD-017 Rev. 1. Westinghouse Hanford Company, Richland, WA.
- Morton LA. 1994. *Waste Mistransfer, Accelerated Safety Analysis Program Double-Shell Tank Safety Analysis*. WHC-SD-WM-SARR-023 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Norton JD and Pederson LR. 1995. *Solubilities of Gases in Simulated Tank 241-SY-101 Wastes*. PNL-10785. Pacific Northwest National Laboratory, Richland, WA.
- Onishi Y and Hudson JD. 1996. *Waste Mixing and Diluent Selection for the Planned Retrieval of Hanford Tank 241-SY-102: A Preliminary Assessment*. PNNL-10927. Pacific Northwest National Laboratory, Richland, WA.
- Pines AG. 1992. *TRUSAF Hazards Identification and Evaluation*. WHC-SD-WM-SAR-025 Rev. 0. Westinghouse Hanford Company, Richland, WA.
- Pool KH. 1994. *Total Cyanide Analysis of Tank Core Samples: Analytical Results and Supporting Investigation*. PNL-8858, Rev. 1. Pacific Northwest Laboratory, Richland, WA.
- Postma AK. 1992. *Current Understanding of the Safety of Storing High-Level Waste Containing Ferrocyanide at the Hanford Site*. WHC-EP-0531 Rev. 1. Westinghouse Hanford Company, Richland, WA.
- Postma AK. 1994. *Ferrocyanide Safety Program Safety Criteria for Ferrocyanide Watch List Tanks*. WHC-EP-0691. Westinghouse Hanford Company, Richland, WA.
- Postma AK. 1994. *Safety Analysis of Exothermic Reaction Hazards Associated with the Organic Liquid Layer in Tank 241-C-103*. WHC-SD-WM-SARR-001 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Postma AK and Dickinson DR. 1995. *Ferrocyanide Safety Program: Analysis of Postulated Energetic Reactions and Resultant Aerosol Generation in Hanford Site Waste Tanks*. WHC-EP-0876. Westinghouse Hanford Company, Richland, WA.

Price DN. 1994. *Rotary Core Vapor Sampling Data Quality Objective*. WHC-SD-WM-SP-003. Westinghouse Hanford Company, Richland, WA.

Rai D, et al. 1994. *Ferrocyanide Safety Project Interim Report FY 1994: Solubility of Ferrocyanide Compounds*. PNL-10150. Pacific Northwest National Laboratory, Richland, WA.

Rassat SD and Gauglitz PA. 1995. *Bubble Retention in Synthetic Sludge: Testing of Alternative Gas Retention Apparatus*. PNL-10661. Pacific Northwest National Laboratory, Richland, WA.

Raymond RE. 1989. *Double-Shell Tank Farm Facility Safety Analysis Report*. WHC-SD-WM-SAR-016 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Reynolds DA. 1993. *Assessment of Gas Accumulation and Retention - Tank 241-SY-101*. WHC-EP-0576 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Saueressig DJ. 1989. *Operational Safety Analysis Report Cross-Country Waste Tra*. WHC-SD-WM-SAR-039 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Savino AV. 1995. *Tank Waste Compositions and Atmospheric Dispersion Coefficients for Use in Accelerated Safety Analysis Consequence Assessments*. WHC-SD-WM-SARR-016 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Scheele RD. 1995. *Organic Tank Safety Project: Preliminary Results of Energetics and Thermal Behavior Studies of Model Organic Nitrate and/or Nitrite Mixtures and a Simulated Organic Waste*. PNL-10213. Pacific Northwest Laboratory, Richland, WA.

Scheele RD, Bryan SA, Johnston JW, Tingey JM, Burger LL, and Hallen RT. 1992. *Hanford Ferrocyanide Waste Chemistry and Reactivity Preliminary Catalyst and Initiator Screening Studies*. PNL-8089. Pacific Northwest Laboratory, Richland, WA.

Scheele RD, Burger LL, Sell RL, Bredt PR, and Barrington RJ. 1994. *Ferrocyanide Safety Project: Comparison of Actual and Simulated Ferrocyanide Waste Properties*. PNL-10175. Pacific Northwest Laboratory, Richland, WA.

Scheele RD, Burger LL, Tingey JM, Bryan SA, Borsheim GL, Simpson BC et al. 1991. "Ferrocyanide-Containing Waste Tanks: Ferrocyanide Chemistry and Reactivity." *Environmental Restoration '91*. (N/A):233-242.

Scheele RD, Burger LL, Tingey JM, Hallen RT, and Lilga MA. 1992. "Chemical Reactivity of Potential Ferrocyanide Precipitates in Hanford Tanks with Nitrates and Nitrites." *Proceedings of the Symposium on Waste Management 1992*. 1(N/A):835-842.

Scheele RD and Cady HH. 1992. *Preliminary Safe-Handling Experiments on a Mixture of Cesium Nickel Ferrocyanide and Equimolar Sodium Nitrate/Nitrite*. PNL-7928. Pacific Northwest Laboratory, Richland, WA.

Seesing PR, Birn MB, and Manke KL. 1994. *Waste Tank Vapor Project: Tank Vapor Database Development*. PNL-10130. Pacific Northwest Laboratory, Richland, WA.

Shekarriz A. 1994. *Retained Gas Samples Visualization Guide*. PNL-10138. Pacific Northwest Laboratory, Richland, WA.

Shepard CL, Stewart CW, Alzheimer JM, Terrones G, Chen G, and Wilkins NE. 1995. *In Situ Determination of Rheological Properties and Void Fraction: Hanford Waste Tank 241-SY-103*. PNL-10865. Pacific Northwest National Laboratory, Richland, WA.

Sherwood DJ. 1994. *A Summary Description of the Flammable Gas Tank Safety Program*. WHC-SD-WM-SD-019 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Sherwood DJ. 1995. *Flammable Gas Tank Safety Program: Technical Basis for Gas Analysis and Monitoring*. WHC-SD-WM-ES-346 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Shire PR, Cowley WL, Gilbert BH, Smith DA, and Smith GL. 1995. *Potential Accidents for Storage and Disposition of Cesium and Strontium Capsules*. WHC-SD-WM-ANAL-042. Westinghouse Hanford Company, Richland, WA.

Siemer JM. 1993. *B Plant Safety Analysis Report*. WHC-SD-WM-SAR-013 Rev. 2. Westinghouse Hanford Company, Richland, WA.

Simpson BC, Babad H, and Cash RJ. 1993. *Recent Results from Characterization of Ferrocyanide Wastes at the Hanford Site*. WHC-SA-1701-FP. Westinghouse Hanford Company, Richland, WA.

Stewart CW, Schienbein LA, Hudson JD, Eschbach EJ, and Lessor DL. 1994. *Assessment of Alternative Mitigation Concepts for Hanford Flammable Gas Tanks*. PNL-10105. Pacific Northwest Laboratory, Richland, WA.

Stewart CW, Shepard CL, Alzheimer JM, Stokes TI, and Terrones G. 1995. *In Situ Determination of Rheological Properties and Void Fraction in Hanford Waste Tank 241-SY-101*. PNL-10682. Pacific Northwest National Laboratory, Richland, WA.

Stewart CW, et.al. 1994. *Mitigation of Tank 241-SY-101 by Pump Mixing: Results of Full-Scale Testing*. PNL-9959. Pacific Northwest National Laboratory, Richland, WA.

Stokes TI. 1995. *Design Requirements Document (DRD) for Surface Moisture Measurement System (SMMS)*. WHC-SD-WM-DRD-002 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Strachan DM. 1994. *Status and Integration of the Gas Generation Studies Performed for the Hydrogen Safety Program - FY 1993 Annual Report*. PNL-9459. Pacific Northwest Laboratory, Richland, WA.

Strachan DM, Lokken RO, Scheele RD, and Toste AP. 1986. *Hanford Tank Safety Project: Complex Concentrate Pretreatment FY 1986 Progress Report*. PNL-7687. Pacific Northwest Laboratory, Richland, WA.

Strachan DM, et al. 1991. *Hanford Tank Safety Project: Chemical and Physical Processes in Tank 241-SY-101: A Preliminary Report*. PNL-7595. Pacific Northwest Laboratory, Richland, WA.

Tingey JM. 1994. *The Effects of Heating and Dilution on the Rheological and Physical Properties of Tank 241-SY-101 Waste*. PNL-10198. Pacific Northwest Laboratory, Richland, WA.

Tingey JM, Matheson JD, McKinley SG, Jones TE, and Pool KH. 1993. "Characterization of Hanford Tank Wastes Containing Ferrocyanides." *Waste Management '93*. 2(N/A):1105-1110.

Turner DA. 1995. *Data Quality Objectives to Support Resolution of the Organic Complexant Safety Issue*. WHC-SD-WM-DQO-006 Rev. 2. Westinghouse Hanford Company, Richland, WA.

U.S. Environmental Protection Agency. 1990. *Hazardous Waste Management System: Identification and Listing of Hazardous Waste; Toxicity Characteristic Revisions*. 55 FR 26986. Federal Register, U.S. Environmental Protection Agency, Washington, D.C.

Van Keuren JC. 1995. *Toxic Chemical Considerations for Tank Farm Releases*. WHC-SD-WM-SARR-011 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Van Vleet RJ. 1994. *Safety Basis for Activities in Single-Shell Flammable Gas Watch List Tanks*. WHC-SD-WM-SARR-004 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Van Vleet RJ. 1994. *Safety Basis for Activities in Double-Shell Flammable Gas Watch List Tanks*. WHC-SD-WM-SARR-002 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Voice JD. 1994. *Tank Farms Accelerated Safety Analysis: Tank Ventilation Systems*. WHC-SD-WM-SARR-018 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Webb AB. 1995. *Preliminary Safety Criteria for Organic Watch List Tanks at the Hanford Site*. WHC-SD-WM-SARR-033 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Webb BJ. 1994. *Summary Report on the Design of the Retained Gas Sampler System (Retained Gas Sampler, Extrude and Extractor)*. WHC-SD-WM-ER-387 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Whitney P. 1995. *Screening for the Hanford Tanks for Trapped Gas*. PNL-10821. Pacific Northwest National Laboratory, Richland, WA.

Wilkins NE. 1994. *Gas Monitoring Results for Double-Shell Tanks*. WHC-SD-WM-TI-682 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wilkins NE. 1995. *Tank 241-SY-103 Core Sample: Interpretation of Result*. WHC-SD-WM-TI-712 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wodrich DD. 1989. *Hazards Identification and Evaluation for Waste Tank Core Sampling Equipment*. WHC-SD-WM-SAR-007 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Wootan DW. 1995. *Functional Design Criteria for the Retained Gas Sampler System (RGSS)*. WHC-SD-WM-FRD-018 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Section H: General

Bajwa JK. 1994. *Overground Transfer Lines DAR Addendum*. WHC-SD-WM-SAR-034 Rev. R. Westinghouse Hanford Company, Richland, WA.

Bodily DB. 1994. *Nonradioactive Dangerous Waste Storage Facility*. WHC-SD-WM-SAR-019 Rev. R. Westinghouse Hanford Company, Richland, WA.

Covey LI. 1992. *Waste Encapsulation and Storage Facility*. WHC-SD-WM-SAR-005 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Duerr GC. 1994. *Operational Summaries for Double-Shell Tank Farms Waste Transfers*. WHC-SD-WM-SARR-019 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Duerr GC. 1994. *Operational Summaries for Double-Shell Tank Farm Waste Storage*. WHC-SD-WM-SARR-020 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Fowler KD. 1995. *Data Quality Objectives for Tank Farms Waste Compatability Program*. WHC-SD-WM-DQO-001 Rev. 1. Westinghouse Hanford Company, Richland, WA.

Gephart RE and Lundgren RE. 1995. *Hanford Tank Clean Up: A Guide to Understanding the Technical Issues*. PNL-10773. Pacific Northwest Laboratory, Richland, WA.

Miller WC. 1993. *Tank Waste Retrieval Issues and Options for Their Resolution*. WHC-SA-1697-FP. Westinghouse Hanford Company, Richland, WA.

Orme RM. 1994. *TWRS Process Flowsheet*. WHC-SD-WM-TI-613. Westinghouse Hanford Company, Richland, WA.

Reick CA. 1993. *Conceptual Design Report Initial Tank Retrieval Systems for Project W-211*. WHC-SD-W211-CDR-001 Rev. 0. Westinghouse Hanford Company, Richland, WA.

Rouse JK, McLaughlin TJ, Airhart SP, Jensen EJ, Lindberg SL, Robinson DD et al. 1993. *Underground Storage Tank - Integrated Demonstration Participant Site Characteristic Summary*. WHC-EP-0566. Westinghouse Hanford Company, Richland, WA.

Schmieman EA, Young JR, Eller PG, Lee JA, Slankas JT, Carr JA et al. 1995. *Tank Waste Remediation System Integrated Technology Plan*. PNL-10092 and DOE/RL-92-61 Rev. 2. Pacific Northwest Laboratory, Richland, WA.

Scott PA, Goles RW, and Peters RD. 1985. *Technology of Off-Gas Treatment for Liquid-Fed Ceramic Melters*. PNL-5446. Pacific Northwest Laboratory, Richland, WA.

Slankas JT and Kupfer MJ. 1995. *Data Needs and Attendant Data Quality Objectives for Tank Waste Pretreatment and Disposal*. WHC-SD-WM-DQO-022. Westinghouse Hanford Company, Richland, WA.

Stegen GE. 1991. *Hanford Waste Vitrification Plant Nitrogen Oxide Abatement Equipment Requirements Review*. WHC-SD-HWV-TI-013. Westinghouse Hanford Company, Richland, WA.

Stone WA, Thorp JM, Gifford OP, and Hoitink DJ. 1983. *Climatological Summary for the Hanford Area*. PNL-4622. Pacific Northwest Laboratory, Richland, WA.

Wagner RN. 1992. *HWVP Feed Characterization Requirements*. WHC-SD-HWV-SM-001 Rev. 4. Westinghouse Hanford Company, Richland, WA.