

**LIST OF ENCLOSURES TO
9/29/95 DOE/RL LETTER 95-TSD-130**

95-0004833



Department of Energy

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

SEP 29 1995

95-TSD-130

The Honorable John T. Conway
Chairman
Defense Nuclear Facilities Safety Board
Suite 700
625 Indiana Avenue, NW
Washington, D.C. 20004

Dear Mr. Conway:

COMPLETION OF REPORTING COMMITMENTS TO THE DEFENSE NUCLEAR FACILITY SAFETY BOARD (DNFSB) UNDER RECOMMENDATION 90-7

This letter is to advise the Defense Nuclear Facility Safety Board (DNFSB) that the U. S. Department of Energy, Richland Operations Office (RL), has completed the activities required to close out certain of the identified milestones developed in "Program Plan for Resolution of the Ferrocyanide Waste Tank Safety Issue at the Hanford Site" DOE/RL-94-110, in response to DNFSB Recommendation 90-7. The reports attached provide the technical basis for the determination that a particular milestone has been completed. Additional detail concerning each reported activity will be provided in the next quarterly report.

If you have any questions, please contact me on (509) 376-4550.

Sincerely,

A handwritten signature in cursive script that reads "Mary F. Jarvis".

Mary F. Jarvis, Ph.D., Project Director,
Tank Safety Analysis Division

TSD:DHI

Enclosures

cc w/o encls:
T. P. Grumbly, EM-1, HQ
S. P. Cowan, EM-30, HQ
J. V. Antizzo, EM-37, HQ
M. A. Hunemüller, EM-38, HQ
C. O'Dell, EM-37, HQ

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DNFSB

95-0004835

PNL-10175
UC-721
Supplement 1

**Ferrocyanide Safety Project:
Comparison of Actual and Simulated
Ferrocyanide Waste Properties**

R. D. Scheele

September 1995

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

Pacific Northwest Laboratory
Richland, Washington 99352

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PACIFIC NORTHWEST LABORATORY

Ferrocyanide Safety Program Cyanide Speciation Studies Final Report

S. A. Bryan
K. H. Pool
S. L. Bryan
S. V. Forbes
F. V. Hoopes

B. D. Lemer
G. M. Mong
G. F. Schiefelbein
R. L. Sell
L. M. P. Thomas

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DNF SAFETY BOARD

September 1995

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Pacific Northwest Laboratory
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by Battelle Memorial Institute



**Ferrocyanide Tank Safety Program:
Cesium Uptake Capacity of
Simulated Ferrocyanide
Tank Waste: Final Report**

I. E. Burgeson
S. A. Bryan

Sept.
July 1995

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

Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute



**Ferrocyanide Safety Project
Ferrocyanide Aging Studies
FY 1995 Annual Report**

M. A. Lilga
E. V. Alderson
R. T. Hallen
M. O. Hogan
T. L. Hubler
G. L. Jones
D. J. Kowalski
M. R. Lumetta
G. F. Schiefelbein
M. R. Telander

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Westinghouse Hanford Company
Waste Tank Safety Program
with the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830

Pacific Northwest Laboratory
Richland, Washington 99352

Modeling Water Retention of Tank Waste

C. S. Simmons

September 1995

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

Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute



Ferrocyanide Safety Program: Analysis of Postulated Energetic Reactions and Resultant Aerosol Generation in Hanford Site Waste Tanks

A. K. Postma
G & P Consulting, Inc.

D. R. Dickinson
Westinghouse Hanford Company

Date Published
September 1995

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



Westinghouse
Hanford Company

P.O. Box 1970
Richland, Washington

Management and Operations Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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Tank Characterization Report for Single-Shell Tank 241-C-111

B. C. Simpson
Westinghouse Hanford Company

G. S. Anderson
S. A. Hartley
J. G. Hill
M. M. King
Pacific Northwest Laboratory

A. T. DiCenso
Los Alamos Technical Associates

J. L. Stroup
Kaiser Engineers Hanford

Date Published
August 1995

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management



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Richland, Washington

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Revision 0-1A

Tank Characterization Report for Single-Shell Tank 241-TY-104

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Hanford Company Richland, Washington

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The Contact-Temperature Ignition (CTI) Criteria for Propagating Chemical Reactions Including the Effect of Moisture and Application to Hanford Waste

H. K. Fauske
M. Epstein
Fauske and Associates, Inc.

D. R. Dickinson
R. J. Cash
D. A. Turner
J. E. Meacham
Westinghouse Hanford Company

Date Published
September 1995

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



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Ferrocyanide Safety Program: Final Report on Adiabatic Calorimetry and Tube Propagation Tests With Synthetic Ferrocyanide Materials

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management



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OCT 12 1995
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Summary of FY 1995 NIR Moisture Measurement Development and Implementation Activities

F. R. Reich
T. V. Rebagay
D. A. Dodd
T. Lopez
J. K. Watts

Date Published
September 1995

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U.S. DEPARTMENT OF ENERGY

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



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Richland, Washington

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REMOTE CHARACTERIZATION OF MIXED WASTE BY INFRARED SPECTROSCOPY

F. R. Reich
T. V. Rebagay
D. A. Dodd
T. Lopez
J. K. Watts

Date Published
September 1995

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**SCANNING ELECTRON MICROSCOPIC ANALYSES
OF FERROCYANIDE TANK WASTES FOR
THE FERROCYANIDE SAFETY PROGRAM
FISCAL YEAR 1995 REPORT**

W. S. Callaway

Date Published

September 1995

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