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Department of Energy
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MAY 27 1998

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DNF SAFETY BOARD

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

Dear Mr. Chairman:

SUBJECT: Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 96-1
Implementation Plan - Reference Documents


The following reports are supporting reference documents for the Recommendation 96-1 deliverables issued to you in my letter dated May 27, 1998, and are enclosed for your information.

1. Nuclear Magnetic Resonance, Electron Paramagnetic Resonance, and Molecular Modeling Studies of Sodium Tetrphenylborate Systems at Pacific Northwest National Laboratory (U), WSRC-TR-97-0110, Rev. 0 **98-1830**
2. Pilot-Scale Benzene Retention and Release Demonstration (U), WSRC-TR-97-0360 Rev. 0 **98-275**
3. Laboratory-Scale Study of Parameters Influencing Benzene Retention and Release in Potassium Tetrphenylborate Slurries (U), WSRC-TR-97-00375 **98-276**
4. Nitrogen Flow Rates Required to Maintain Bulk Vapor Space Concentration Limits for ITP Waste Tanks 48 and 49 (U), M-CLC-H-01426 **98-1831**
5. Impact of Water Additions on Benzene Releases from Tank 48H (U), WSRC-TR-97-00385 **98-267**
6. Revised Task Technical and QA Plan for In-Tank Precipitation Benzene Retention Bench-scale Parameter Tests (U), WSRC-RP-97-11, Rev. 1 **98-260**
7. The State of Benzene in ITP Slurry Using Nuclear Magnetic Resonance Measurements (U), WSRC-RP-97-934, Rev. 0 **98-259**
8. Task Technical Plan for Pilot-Scale Benzene Retention and Release Demonstration (U), WSRC-RP-97-7, Rev. 0 **98-261**
9. Apparent Benzene Solubility in Tetrphenylborate Slurries (U), WSRC-TR-97-00362, Revision 0 **98-263**
10. Liquid Mixing in Tank 48, WSRC-TR-97-00348, Rev. 0 **98-264**
11. ITP Waste Tanks Seismic Sloshing Horsepower (U), T-CLC-H-00316 **98-1832**
12. Task Technical Plan to Study the Effects of Solids on the Apparent Solubility of Benzene in Simulated ITP Salt Solutions (U), WSRC-RP-96-775, Revision 1 **98-262**
13. Task Technical Plan for ITP Slurry Benzene Retention and Release Mechanism (U), WSRC-RP-97-321, Revision 0 **98-268**
14. ITP Cycle 1 Demonstration Test Decision Logic, HLW-ITP-97026 **98-1833**
15. Task Technical Plan for Radioactive Tests in Support of the In-Tank Precipitation Facility (U), WSRC-RP-97-0059, Revision 0 **97-1742**
16. Tetrphenylborate Solids Stability Tests (U), WSRC-TR-97-0285, Rev. 0 **98-1834**
17. Qualitative Evaluation of the Potential for a Large Episodic Combustible Gas, M-CLC-01516 **98-1593**
18. Task Technical Plan for Radioactive Tests in Support of the In-Tank Precipitation Facility (U), WSRC-RP-97-0059, Rev. 1 **98-1835**

19. Decomposition of Triphenylborane with Enhanced Comprehensive Catalyst under Aerated and Inert Conditions (U), WSRC-TR-97-0325, Rev. 0 **98-1836**
20. Projected Variation in Feeds to the In-Tank Precipitation Process (U), OPS-DTZ-97-0004 **97-1291**
21. Decomposition Studies of Filtered Slurries using the Enhanced comprehensive Catalyst (U), WSRC-TR-97-00383, Rev. 0 **98-1837**
22. Tetraphenylborate solids Stability Tests (U), WSRC-TR-97-0185, Rev. 0 **97-2530**
23. The Role of Oxygen in the Copper-Catalyzed Decomposition of Phenyl Borates in Aqueous Alkaline Solutions (U), WSRC-TR-97-0069 **97-1747**
24. Statistical Investigation Into the Decomposition Rates of Tetraphenylborate and Its Daughter Compounds (U), WSRC-TR-97-00403, Revision 0 **98-1838**
25. Summary of Chemistry Program Assessment for Support of DNFSB 96-1 Implementation Plan (U), WSRC-RP-97-0987 **98-1839**
26. ITP Solids Stability Operating Window Tests, WSRC-TR-98-00072, Rev. 0 **98-1840**
27. Task Technical and Quality Assurance Plan for Tetraphenylborate Salt Solubility in High Ionic Strength Salt Solutions, WSRC-TR-98-00071, Revision 0 **98-1841**
28. Kinetic Studies of Inhibitor Agents for the Decomposition of Sodium Tetraphenylborate, WSRC-TR-98-00123, Rev. 0 **040 98-1847**
29. The Solubility of Phenylborate compounds in Benzene, WSRC-TR-98-00129 **98-1842**
30. Radioactive Testing Results in Support of the In-Tank Precipitation Facility, WSRC-TR-98-00070, Revision 0 **98-1843**
31. Tetraphenylborate Solubility in High Ionic Strength Salt Solutions, WSRC-TR-98-00103 **98-1844**
32. Excess Sodium Tetraphenylborate and Intermediates Decomposition Studies, WSRC-TR-98-00099, Rev. 0 **98-1845**
33. Effect of Palladium form on Tetraphenylborate Decomposition Rate, WSRC-TR-98-00073, Rev. 0 **98-1846**

Please direct any questions to me or W. F. Spader at (803) 208-7409.

Sincerely,


Roy J. Schepens
Acting Assistant Manager
for High Level Waste

ED:JWM:eeh

PC-98-0042

33 Enclosures

cc w/o Enclosures:

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