

Department of Energy

Savannah River Operations Office P.O. Box A Aiken, South Carolina 29802

MAY 27 1998

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 Tetraphenylborate Systems at Pacific Northwest National Laboratory (U), WSRC-TR-97-0110, Rev. 0
- 2. Pilot-Scale Benzene Retention and Release Demonstration (U), WSRC-TR-97-0360 Rev. 0
- 3. Laboratory-Scale Study of Parameters Influencing Benzene Retention and Release in Potassium Tetraphenylborate Slurries (U), WSRC-TR-97-00375
- 4. Nitrogen Flow Rates Required to Maintain Bulk Vapor Space Concentration Limits for ITP Waste Tanks 48 and 49 (U), M-CLC-H-01426
- 5. Impact of Water Additions on Benzene Releases from Tank 48H (U), WSRC-TR-97-00385
- 6. Revised Task Technical and QA Plan for In-Tank Precipitation Benzene Retention Bench-scale Parameter Tests (U), WSRC-RP-97-11, Rev. 1
- 7. The State of Benzene in ITP Slurry Using Nuclear Magnetic Resonance Measurements (U), WSRC-RP-97-934, Rev. 0
- 8. Task Technical Plan for Pilot-Scale Benzene Retention and Release Demonstration (U), WSRC-RP-97-7, Rev. 0
- 9. Apparent Benzene Solubility in Tetraphenylborate Slurries (U), WSRC-TR-97-00362, Revision 0
- 10. Liquid Mixing in Tank 48, WSRC-TR-97-00348, Rev. 0
- 11. ITP Waste Tanks Seismic Sloshing Horsepower (U), T-CLC-H-00316
- 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
- 13. Task Technical Plan for ITP Slurry Benzene Retention and Release Mechanism (U), WSRC-RP-97-321, Revision 0
- 14. ITP Cycle 1 Demonstration Test Decision Logic, HLW-ITP-97026
- 15. Task Technical Plan for Radioactive Tests in Support of the In-Tank Precipitation Facility (U), WSRC-RP-97-0059, Revision 0
- 16. Tetraphenylborate Solids Stability Tests (U), WSRC-TR-97-0285, Rev. 0
- 17. Qualitative Evaluation of the Potential for a Large Episodic Combustible Gas, M-CLC-01516
- 18. Task Technical Plan for Radioactive Tests in Support of the In-Tank Precipitation Facility (U), WSRC-RP-97-0059, Rev. 1

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

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

Sincerely,

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for High Level Waste

ED:JWM:eeh

PC-98-0042

33 Enclosures

cc w/o Enclosures:

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