



Department of Energy
Office of River Protection
P.O. Box 550
Richland, Washington 99352

99-0002379

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DNFB SAFETY BOARD

99-TSD-088

SEP 24 1999

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

Dear Mr. Chariman:

COMPLETION OF THE DEFENSE NUCLEAR FACILITIES SAFETY BOARD (DNFSB) RECOMMENDATION 93-5 IMPLEMENTATION PLAN (IP), REVISION 1, MILESTONE 5.4.3.6.d., "LETTER REPORTING COMPLETION OF TOPICAL REPORT TO RESOLVE THE HIGH-HEAT SAFETY ISSUE"

Reference: RL letter from J. D. Wagoner to J. T. Conway, DNFSB, "Completion Dates of the Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 93-5 Implementation Plan (IP), Revision 1, Milestones to Resolve the High-Heat Safety Issue," 97-WSD-230, dated November 14, 1997.

The Attached "Topical Report for Resolution of the High-Heat Safety Issue," HNF-3460 Revision 0A, documents that sufficient waste has been removed from Tank 241-C-106 to resolve the High-Heat Safety Issue. Resolution of the High-Heat Safety Issue is based on the following key points:

- Results from grab samples taken following sluicing operations show that sufficient heat has been removed from Tank 241-C-106 to discontinue the need for water additions;
- analysis of temperature responses in both Tanks 241-C-106 (source tank) and 241-AY-102 (waste receiver tank) show that sufficient heat has been transferred to discontinue the need for water additions;
- since the start of sluicing operations in November 1998, no water additions have been required for Tank 241-C-106 and the waste temperature has steadily decreased; and
- modeling of the Tank 241-C-106 long term waste dry-out behavior confirms that the waste temperature will remain below established safety limits without continued water additions.

This report is submitted to meet the requirement of DNFSB Recommendation 93-5 IP, Revision 1, Milestone 5.4.3.6.d., "Letter reporting completion of topical report to resolve the High Heat Safety Issue."

SEP 24 1999

The Honorable John T. Conway
99-TSD-088

-2-

As reported in the reference this milestone was delayed due to Project W-320's (Tank C-106 Sluicing) need for additional analyses to resolve flammability and steam bump issues, and upgrades resulting from the analyses. The referenced letter reported a target completion date of December 1999.

The U.S. Department of Energy, Office of River Protection has completed the action identified under this milestone and proposes closure of this commitment. The point-of-contact, for this activity is Jackson Kinzer, of my staff, on (509) 376-7591.

Sincerely,


Richard T. French, Manager
Office of River Protection

TSD:GMN

Attachment

cc w/o attach:

C. L. Huntoon, EM-1
M. W. Frei, EM-30
K. T. Lang, EM-38
K. T. Juroff, EM-38
R. G. Lightner, EM-38
B. K. Hampton, FDH
A. F. Shattuck, FDHNW
D. R. Bratzel, LMHC
R. J. Cash, LMHC
M. B. Whitaker, Jr., S-3.1 (w/attach)