



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

OCT 25 1990

MEMORANDUM FOR: John J. Surmeier, Chief  
Technical Branch  
Division of Low-Level Waste Management  
and Decommissioning, NMSS

THRU: Michael Tokar, Section Leader  
Engineering Section, Technical Branch  
Division of Low-Level Waste Management  
and Decommissioning, NMSS *Michael Tokar*

FROM: Everett Wick  
Engineering Section, Technical Branch  
Division of Low-Level Waste Management  
and Decommissioning, NMSS

SUBJECT: ADDENDUM TO SUMMARY OF AUGUST 23, 1990 MEETING  
BETWEEN NRC, BONDICO, AND SAIC

The subject addendum is enclosed. After reviewing the summary of the August 23, 1990, meeting issued September 14, 1990, the Bondico Nuclear representative felt that Bondico's position on hydrolytic degradation of fiberglass-reinforced plastic tankage in earth burial conditions was incompletely stated. Accordingly, at our suggestion, Bondico forwarded some comments that it considers crucial to this matter. These comments are hereby issued as an addendum to the meeting summary. These comments apply to item 6 of the summary which lists Bondico's responses to NRC comments on Bondico's Topical Report on its HIC-7 high integrity container (Docket Number WM-94).

*Everett Wick*

Everett Wick  
Engineering Section, Technical Branch  
Division of Low-Level Waste Management  
and Decommissioning, NMSS

Enclosure:  
Addendum to Meeting Summary

cc: Attendees w/enclosure

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FOR WASTE  
WM-94 PDC

OCT 25 1990

ADDENDUM TO SEPTEMBER 14, 1990, SUMMARY  
OF AUGUST 23, 1990, MEETING  
BETWEEN NRC, BONDICO, AND SAIC

This addendum consists of comments provided by Bondico Nuclear after review of the meeting summary. Those comments apply to item 6 of the meeting summary, which lists Bondico's responses to NRC comments on Bondico's Topical Report (TR) (Docket Number WM-94). The Bondico comments are:

1. Neither SAIC or NRC has presented any factual basis that FRP undergoes any significant hydrolytic degradation under realistic earth burial conditions, i.e. at temperatures about 15-20°C and when burial is well above the underground water table so that the HIC is never submerged in water.
2. The only data presented by SAIC is based upon experiments performed on plastics under water immersion and at elevated temperature conditions in the temperature range of 70-100°C. Industry experts who have made thousands of FRP underground storage tanks have stated that extrapolation downward from such test conditions has been shown to under predict the service life of actual FRP tankage.
3. The industry experts have cited actual earth burial experience with FRP tanks that has shown that the FRP material after 25-30 years of burial service has essentially retained its physical strength properties. Thus there is no actual experience or data to indicate any significant signs of hydrolytic degradation after such periods of earth burial, even under water submergence conditions.

*Everett Wick*

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