

February 27, 2007

MEMORANDUM TO: Michael L. Scott, Branch Chief  
Safety Issue Resolution Branch  
Division of Safety Systems  
Office of Nuclear Reactor Regulation

FROM: Anthony Hsia, Branch Chief **/RA/**  
Mechanical and Structural Engineering Branch  
Engineering Research Applications  
Office of Nuclear Regulatory Research

SUBJECT: TECHNICAL LETTER REPORT ON FOLLOW-ON STUDIES IN  
CHEMICAL EFFECTS HEAD-LOSS RESEARCH; STUDIES ON WCAP  
SURROGATES AND SODIUM TETRABORATE SOLUTIONS

I am forwarding the enclosed letter report titled "Technical Letter Report on Follow-on Studies in Chemical Effects Head-Loss Research: Studies on WCAP Surrogates and Sodium Tetraborate Solutions" for your information, use and posting on the NRC's GSI-191 public web-site. The report was prepared by Argonne National Laboratory under the sponsorship of the NRC's Office of Nuclear Regulatory Research, Division of Fuel, Engineering, and Radiological Research.

The enclosed report documents studies conducted by Argonne National Laboratory to evaluate the ability of the procedures in Westinghouse WCAP-16530-NP to produce aluminum precipitate surrogates representative of aluminum precipitates expected in a post LOCA sump pool environment and to study the head-loss characteristics of aluminum precipitates in sodium tetraborate buffered sump-pool environment.

Enclosure:  
As stated

Contact: E. Geiger, RES  
301-415-5680

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