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MAY 8 1986

MEMORANDUM FOR: John G. Davis, Director  
Office of Nuclear Material Safety and Safeguards

THRU: Richard E. Cunningham, Director  
Division of Fuel Cycle and Material Safety

FROM: W. T. Crow, Acting Chief  
Uranium Fuel Licensing Branch

SUBJECT: ITEMS OF INTEREST

SHIPPING CONTAINER RESPONSE TO SEVERE HIGHWAY AND RAILWAY ACCIDENT  
CONDITIONS (MODAL STUDY)

NRC has received a final draft report on the Modal Study from Lawrence Livermore National Laboratory (LLNL). The report culminates a multi-year effort by LLNL to investigate the relationship between existing spent fuel package design criteria and real world accident conditions, and provides a measure of the level of safety offered the public should packages designed to our standards encounter severe accident conditions. The report documents the supporting computer modeling engineering and probabilistic analyses performed by LLNL. At present, the final draft report is undergoing technical review by NMSS and RES staff. A peer review of the LLNL draft report by the Denver Research Institute is scheduled to begin immediately upon conclusion of staff review. NMSS and RES staff plan to prepare a brief summary of the Modal Study oriented toward the public concurrent with the peer review.

KERR-MCGEE, WEST CHICAGO

NMSS personnel attended the ASLB evidentiary hearing on Kress Creek Decontamination from April 28 through April 30, 1986. The hearing was held in Chicago, Illinois.

Original signed by:  
W. T. Crow

W. T. Crow, Acting Chief  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and  
Material Safety, NMSS

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