



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

SEP 21 1979

Generic Task No. A-17

MEMORANDUM FOR: Stephen H. Hanauer, Director, Unresolved Safety Issues Program  
FROM: John Angelo, Task Manager, Generic Task No. A-17  
SUBJECT: FAULT TREES FOR THE DECAY HEAT REMOVAL FUNCTION FOR TASK A-17

Enclosed is a copy of the fault tree which depicts the decay heat removal function for the task on systems interaction. The fault tree consists of three branches: The first branch consists of 10 overlapping diagrams with the top logic gate identified as "Failure of Decay Heat Removal Function" on sheet 1. The series of 10 diagrams are identified in the lower right-hand corner of each sheet as "DHR/Sheet 1" through "DHR/Sheet 10." The second branch consists of 6 overlapping diagrams with the top logic gate identified as "Failure of Applicable Secondary DHR Systems" on the first sheet. Each sheet in this series of 6 diagrams is further identified in the lower right-hand corner of each sheet as "SEC-AFWS/Sheet 1" through "SEC-AFWS/Sheet 6." The third branch consists of 7 overlapping sheets identified as "DHR-SEC-BACKUP/Sheet 1" through "DHR-SEC-BACKUP/Sheet 7."

These diagrams were completed by Sandia Laboratories early in September 1979 and were briefly described to the task members at Albuquerque, New Mexico on September 12, 1979. By copy of this memorandum, members of the task group on Task A-17 are requested to review the diagrams and make their comments to the Task Manager or to D. Fischer on or before October 12, 1979 so that these comments can be coordinated and presented to Sandia Laboratories shortly after that date. Other persons on the distribution are invited to make their comments also by that date if possible. Due to the nature of these diagrams, not all persons on the distribution have been given a copy of the diagrams which number 23 total, each diagram is about 44 inches long. However, if anyone not receiving the diagrams desires to have a copy, please contact the Task Manager.

The fault trees on the reactor coolant pressure boundary (RCPB) were distributed by memorandum to you dated August 6, 1979. The last set of trees which will be the reactor subcriticality function is now being prepared by Sandia Laboratories.

*John Angelo*  
John Angelo, Task Manager  
Generic Task No. A-17

Enclosure: Fault tree on Decay Heat  
Removal (23 diagrams)

cc: Mr. Mark Wisenberg  
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