



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

S. Hanauer

AUG 30 1979

MEMORANDUM FOR: A. Thadani, A-9 Task Manager, Reactor Systems Branch, DSS
FROM: W. R. Butler, Chief, Containment Systems Branch, DSS
SUBJECT: CSB REVIEW STATUS ON TAP A-9 (ATWS)

During a meeting held on August 10, 1979 in Bethesda, GE presented an outline of the methods which will be used to predict the SRV loads during an ATWS event and the difference between local and bulk pool temperature. This was the first time that the staff has had a description of these methods. Based on our understanding of the approach used in these methods, we would anticipate an extensive review effort to properly evaluate the methods.

The following summarizes the areas of review required for the ATWS SRV loads and pool temperature limit:

1. Analytical model for predicting SRV loads for BWR/4 under ATWS conditions;
2. Empirical model incorporating the Caorso data base for SRV load predictions for BWR/5 and BWR/6 under ATWS conditions;
3. Methodology for calculating local to bulk pool temperature differences for Mark I, II and III; and
4. Justification for using initial pool temperature lower than design.

We believe that substantial manpower will be required to review the methodologies indicated above. Further, it is our understanding that all the necessary documentation will not be available for our review until late this year. This situation causes concern with respect to both review schedule and manpower availability.

In light of these concerns, we recommend a technical meeting with GE in the near future to discuss in detail the review areas identified above. In addition, a more definitive schedule for receipt of the necessary support information should be provided by GE. With this additional information, we believe that we will be in a better position to highlight potential review problems. As you are aware, the two key reviewers are Nelson Su and Larry Ruth. They also are the main contributors for Task A-39. To properly coordinate the efforts on A-39 as well as A-9, this additional information is required.

Contact:
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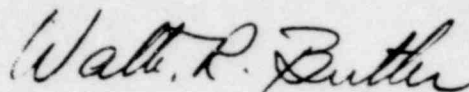
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A. Thadani

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Nelson Su will be available to aid in the necessary coordination to establish the meeting specifics.



Walter R. Butler, Chief
Containment Systems Branch
Division of Systems Safety

cc: S. Hanauer
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L. Ruth
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