

Sandia National Laboratories

Albuquerque, New Mexico 87185

September 5, 1984

Dr. Thomas J. Walker  
Containment Systems Research Branch  
U. S. Nuclear Regulatory Commission  
7915 Eastern Avenue  
Silver Springs, Maryland 20910

Dear Tom:

This letter summarizes the Severe Accident Sequence Analysis (SASA) Program Activities at Sandia during [REDACTED] *Aug 84*

Programmatic Activities

Two summaries of SNL SASA presentations for the Twelfth Water Reactor Safety Research Information Meeting were completed.

Several persons attended the NRC/IDCOR meeting on Integrated Analysis of Fission Product Behavior on August 28-29, 1984.

The status of the SNL SASA program was discussed with you at the NRC/IDCOR Meeting.

Thermal-Hydraulic Analysis Activities

PWR Large Dry Containments (Bellefonte): RELAP5 results from the INEL for 'TLMB' were incorporated into a MARCH2.0 deck and an initial TMLB' calculation was performed. A MARCON input deck for Bellefonte was completed. CONTAIN and HECTR calculations will begin in early fall.

PWR Ice Condenser Containments (Watts Bar/Sequoyah): Revision of the draft report was completed and the final report will be submitted shortly for Sandia management sign off.

Upgraded Computational Capability Activities

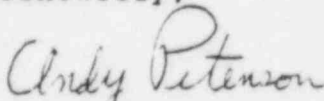
MARCON: The modifications of MARCON to improve some models in MARCH and eliminate some inconsistencies in linking MARCH2.0 and CORCON were nearly completed. The initial draft of the documentation describing the MARCON models and links will be revised to include some additional work completed after the initial draft was prepared. A leakage model was incorporated into MARCON and a draft of documentation describing the leakage model was completed.

LTAS: ORNL transmitted a version of LTAS to Sandia and the code was made compatible with the Sandia computer system. ORNL will transmit a later version of LTAS with some additional improvements this month.

CONTAIN/HECTR: The SASA program is continuing to support and consult with the CONTAIN program in preparation for the Bellefonte calculations to begin this fall. The work on linking the MEDICI reactor cavity models to HECTR is continuing.

Problems: There are none at this time.

Sincerely,



Andrew C. Peterson  
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Division 6411

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