

# STONE & WEBSTER ENGINEERING CORPORATION



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May 11, 1979

DESIGN  
CONSTRUCTION  
REPORTS  
EXAMINATIONS  
CONSULTING  
ENGINEERING

Mr. Victor Stello, Jr., Director  
Division of Operating Reactors  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

50-280/281  
50-309  
50-334  
50-334

Dear Mr. Stello:

Review of the computer deck referenced in my May 9 letter has been completed.


That deck is not the SHOCK 0 program; it is a preliminary SHOCK-series development deck and was not used, to the best of our knowledge, on any production design effort associated with the Maine Yankee or Surry stations.

Thus, the SHOCK 0 program is still unrecovered. The development deck does, however, provide some insight into what may have been elements of SHOCK 0. Assuming that some elements of the development deck were used in SHOCK 0, certain anomalies could have occurred in SHOCK 0 results. These relate to eigen value and participation factor determination.

Subsequent versions (such as SHOCK 1, 2, and 3) do not evidence any such anomalies.

Since the continued absence of a SHOCK 0 program deck or listing prevents verification of the above assumption, we have already rerun a number of SHOCK 0 stress problems with SHOCK 1. The results indicate that the piping systems are conservatively designed and will perform their intended function. Additional reruns are still underway.

Yours very truly,

  
W. J. L. Kennedy  
Vice President

Copy to John G. Davis, Acting Director  
Office of Inspection & Enforcement

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