

SEP 12 1974

Mr. Ivan Stuart, Manager  
Safety and Licensing  
Nuclear Energy Division  
General Electric Company  
175 Curtner Avenue  
San Jose, California 95114

Dear Mr. Stuart:

The Regulatory staff has completed its review of General Electric Company's Topical Report NEDO 10859 (non-proprietary), entitled "Steam Vent Clearing Phenomena and Structural Response of the BWR Torus." Our review included consideration of the errata and addendum dated May 21, 1973, and the additional information provided by letter from J. A. Hinds to D. L. Ziemann, dated December 23, 1973. Our evaluation of this report is enclosed.

As a result of our review, we have concluded that NEDO 10859, as clarified by the additional information provided in the above cited documents, does not provide an acceptable basis due to the limitations described in the enclosed evaluation for predicting the fluid phenomena in the torus water resulting from relief valve actuation. We have also concluded that the analytical model for torus structural response to the above phenomena is not sufficiently verified by test data to be acceptable for application to the Quad Cities Nuclear Generating Station or other BWR facilities with pressure suppression containment systems. Therefore, NEDO 10859 and the above cited supplemental information should not be used for reference as a topical report on license applications or proposed programs relating to fluid phenomena and structural response of the torus through the life of a facility.

If you have any questions concerning our evaluation of NEDO 10859, please contact us.

Sincerely,  
Original Signed

Walter Butler, Chief  
Light Water Reactors Branch 1-2  
Directorate of Licensing

Enclosure:  
Topical Report Evaluation

cc: Mr. Larry Gifford

8604010149 860114  
PDR FOIA  
FIREST085-665 PDR