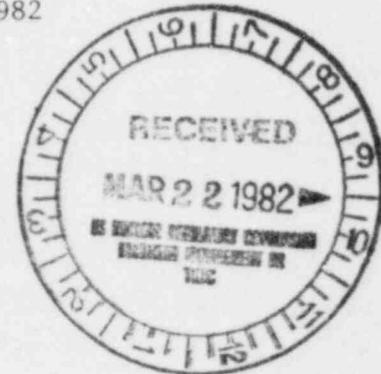




GPU Nuclear
 P.O. Box 480
 Middletown, Pennsylvania 17057
 717-944-7621
 Writer's Direct Dial Number:

March 17, 1982
 5211-82-060



Office of Nuclear Reactor Regulation
 Attn: Darrell G. Eisenhut
 Director of Division of Licensing
 U. S. Nuclear Regulatory Commission
 Washington, D.C. 20555

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
 Operating License No. DPR-50
 Docket No. 50-289
 Pressurized Thermal Shock (PTS) to Reactor Pressure Vessel

This letter is to keep you apprised of our current efforts in addressing PTS as well as to respond to your letter of 10/23/81 where you encouraged us to provide plant specific information as soon as it is available concerning the PTS issue. As we indicated in our letter of 10/1/81, we intended to submit our plant specific information for the 150 day response consistent with the schedule of the B&W Owners Group program. To facilitate our response, we arranged to have the analysis for TMI-1 scheduled subsequent to Oconee 1 submittal. The analysis has progressed to the point where we can take advantage of experimental results used to develop a benchmarked mixing model for use by the B&W Owners's Group Program. Since these results are imminent (around the end of March) we have instructed B&W to use the more realistic mixing model in deriving the projected EPFY for various related transients. Because we are aware of the Staff's needs in obtaining realistic data for a presentation to the Commission, we feel that our response will provide the staff with a logical progression to the results obtained in the Oconee I analysis which used very conservative mixing assumptions.

Additionally, you may be aware that EPRI is also conducting a program of investigating the PTS concern using a representative reactor from each of the main PWR vendors. TMI-1 is the B&W reactor represented in this program.

Therefore, we intend to submit our second phase response (150 day response and response to NRC 12/18/81 request for additional information) as soon as the final mixing results can be inputted into the B&W Owner's Group plant specific analysis, subject to our review (estimated completion - 6/82). We also believe that since the current status of TMI-1 is nonoperating, no immediate safety concerns due to thermal shock are possible.

Sincerely,

H.D. Hukill
 H.D. Hukill

Director, TMI-1

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HDH:...