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October 21, 1983
5211-83-305

Office of Nuclear Reactor Regulation
Attn: T. Novak, Assistant Director
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
Clad Swell and Rupture Model

In our letter of July 14, 1983 (5211-83-194), GPUN provided a bounding analytical assessment of NUREG 0630 on LOCA operating limits for TMI-1. Analyses were performed with and without the use of FLECSET reflood heat transfer code as a compensating model to offset the penalties incurred by use of the NUREG 0630 data. GPUN agreed to provide additional information to supplement the basis for the results presented in the July report.

Attached please find the final version of the generic B&W report for 177 FA lowered-loop plants on the bounding analytical assessment of the impact of NUREG 0630 cladding swell/rupture data on LOCA kW/ft limits for TMI-1. The report includes justification based on benchmarks to experimental data and comparative sensitivity studies of the FLECSET reflood heat transfer code.

Based on these results, we believe that the request in your letter dated July 13, 1982 for supplementing ECCS calculations using NUREG 0630 has been fulfilled, and no further studies are warranted.

Sincerely,

H. D. Hukill
Vice President, TMI-1

HDH:LWH::vjf

cc: J. Van Vliet
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