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September 26, 1984  
5211-84-2213

Office of Nuclear Reactor Regulation  
Attn: Mr. John F. Stolz, Chief  
Operating Reactors Branch No. 4  
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  
Purge Valve Operability, NRC Safety Issue B-24

As partial resolution of NRC Safety Issue B-24 GPUN submitted an analysis (5211-84-293, October 19, 1983) which concluded that installation of debris screens on the TMI-1 containment purge lines is not warranted. However, as discussed with members of your staff, GPUN will install debris screens on the TMI-1 containment purge lines prior to Cycle 6 startup. The debris screens for the TMI-1 containment purge lines will be of seismic Category I design and will not interfere with the operation of the purge isolation valves. Debris screen design guidelines outlined in NRC Memorandum from W. R. Butler Chief, CSB to L. S. Rubenstein, DSI, March 4, 1981, will be utilized in the development of screen design.

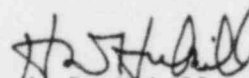
The screen design may create flow restriction which would invalidate earlier stress calculations for the purge valves. GPUN will submit a Technical Specification Change Request, if necessary, to revise the valve open position limits. Installation may, therefore, be delayed pending further issuance of a Technical Specification Amendment. Valve position limits will be determined which provide maximum purge flow while assuring that valve stress limitations and closure times are not exceeded. Maximizing purge flow is necessary to

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ensure that required safety related purge time is kept to a minimum. In the interim, the nominal 30° open position limitations proposed in Technical Specification Change Request No. 116 Rev. 1 are appropriate.

Sincerely,

  
H. D. Hukill  
Director, TMI-1

HDH:RAS:vjf

cc: R. Conte  
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M. Fields