

**Nuclear**

**GPU Nuclear Corporation**  
Post Office Box 480  
Route 441 South  
Middletown, Pennsylvania 17057  
717 944-7621  
TELEX 84-2386  
Writer's Direct Dial Number:

November 11, 1982  
4410-82-L-0041

TMI Program Office  
Attn: Mr. L. H. Barrett, Deputy Program Director  
US Nuclear Regulatory Commission  
c/o Three Mile Island Nuclear Station  
Middletown, PA 17057-0191

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
Submerged Demineralizer System Liner Recombiner  
and Vacuum Outgassing System

This letter is being submitted based on discussions between members of the GPU and NRC staffs in order to clarify two parameters discussed in the safety evaluation for the Submerged Demineralizer System Liner Recombiner and Vacuum Outgassing System submitted via GPU letter 4410-82-L-0022 dated October 13, 1982.

In order to ensure adequate catalyst performance during the postulated accident conditions discussed in Section 3.3.4.3.3 of the subject safety evaluation, the water content in the SDS liner must be reduced to less than 120 pounds. This water content is based on feasibility testing performed by Rockwell Hanford Operations (RHO) under simulated accident conditions.

The other parameter of concern is the amount of catalyst to be added to each liner. Based on testing performed by RHO, 236 grams of catalyst will be added to each liner. This amount of catalyst includes the allowance for 1 percent by weight holdup of catalyst in the catalyst insertion tool and is based on the catalyst bed volume available. This volume of catalyst is significantly greater than the minimum amount needed to ensure recombination of the hydrogen and oxygen gases being generated by the decomposition of water in the SDS liners.

If you have any questions, please contact Mr. J. J. Byrne of my staff.

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PDR ADDCK 05000320  
P PDR

Sincerely,

*B. K. Kanga*  
B. K. Kanga  
Director, TMI-2

BKK/JJB/jep  
CC: Dr. B. J. Snyder, Program Director

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