

# GPU Nuclear

**GPU Nuclear**  
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Writer's Direct Dial Number:

August 25, 1982  
4400-82-L-0139

Office of Inspection and Enforcement  
Attn: Mr. Ronald C. Haynes, Director  
Region I  
US Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
I&E Bulletin No. 80-05  
"Vacuum Condition Resulting in Damage to Chemical Volume  
Control System (CVCS) Holdup Tanks  
(Sometimes Called "Clean Waste Receiver Tanks")"

- Reference
- (1) Inspection Report 50-320/81-17, dated December 11, 1981
  - (2) Inspection Report 50-320/82-05, dated June 23, 1982
  - (3) Response to I&E Bulletin 80-05, dated August 22, 1980

The purpose of this letter is to provide an updated response to I&E Bulletin 80-05 (Reference 3) relative to vacuum protection on tanks. GPU Nuclear has reevaluated the vacuum protection provided on seven of the tanks described in the original response to I&E Bulletin 80-05. The seven tanks reevaluated are:

WDL-T-1	A/B/C	Reactor Coolant Bleed Holdup Tanks
WDL-T-2		Miscellaneous Waste Holdup Tank
WDL-T-5		Auxiliary Building Sump Tank
WDS-T-2		Concentrated Waste Tank
WDS-T-3		Reclaimed Boric Acid Tank

Vacuum protection as provided on these tanks has been noted in Inspection Reports 81-17 and 82-05 (Reference 1 and 2).

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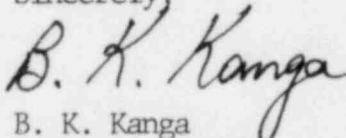
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As described in the August 22, 1980 response, these seven tanks either had existing, or would be modified to have, interlocks on the drain pumps that would shut down the pumps upon receipt of a low suction pressure signal. Upon reevaluation, GPU has determined that the interlocks on the drain pumps of these tanks are not satisfactory to provide the required degree of vacuum protection.

It has been decided that a positive pressure nitrogen system will more appropriately provide the necessary vacuum protection. Tanks WDL-T-2, WDL-T-5, WDS-T-2, and WDS-T-3 have in place the nitrogen system connections to provide a positive nitrogen pressure at any time these tanks are in use. Tanks WDL-T-1 A/B/C will be supplied with a positive nitrogen pressure through a new line from the existing nitrogen system. GPU is in the process of preparing the design package for this new line.

Providing the positive nitrogen pressure on these seven tanks should resolve the concerns relative to vacuum protection.

Sincerely,



B. K. Kanga  
Director, TMI-2

BKK/SWS/jep

CC: L. H. Barrett, Deputy Program Director - TMI Program Office  
Dr. B. J. Snyder, Program Director - TMI Program Office