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September 27, 1982  
 NRC/TMI-82-060

Docket No. 50-320

Mr. B.K. Kanga  
 Director, TMI-2  
 GPU Nuclear Corporation  
 P.O. Box 480  
 Middletown, PA 17057

Dear Mr. Kanga:

Subject: TMI-2 Reactor Coolant System Chemistry

On July 6, 1982, GPU submitted a safety evaluation report for the lowering of the reactor coolant system water level to permit a television inspection of the damaged reactor core. That report concluded that flammable gases were eliminated and implied that an inert gas, nitrogen, would be used to fill the gas spaces in the partially drained primary coolant system (RCS) that were not required to be open for the core inspection program.

The present chemical conditions of the gas spaces in the reactor coolant system loops and pressurizer are unknown. The RCS nitrogen over-pressure lines have been vented to the reactor building atmosphere such that oxygen may be diffusing back into the RCS. This condition was not specifically analyzed in your reports. For the past several weeks you have not taken any specific measurements to determine actual chemical conditions within these drained portions of the RCS.

You are requested to attend a meeting to be held at 2:00 PM, on September 28, 1982, in the NRC's TMI office and provide the following information:

1. Actions, including firm schedules, to promptly obtain actual RCS gas space information.
2. Future plans for establishing an inert gas atmosphere in the drained portions of the RCS which need not be vented.

The schedule for the documentation of the above information will be determined at this meeting.

Original signed by  
 Lake H. Barrett

Lake H. Barrett  
 Deputy Program Director  
 TMI Program Office

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 P PDR

cc: J.J. Barton  
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