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November 26, 1985  
 NRC/TMI 85-095

Docket No. 50-320

GPU Nuclear Corporation  
 ATTN: Mr. F. R. Standerfer  
 Vice President/Director, TMI-2  
 P. O. Box 480  
 Middletown, PA 17057

Dear Mr. Standerfer:

Subject: Safety Evaluation Report (SER) for Core Stratification Sample Acquisition

Reference: Letter from F. R. Standerfer, 4410-85-L-0147, to B. J. Snyder, dated August 30, 1985

In order to complete our review and evaluation we will require additional information. Please respond to the following items so that we may respond to your request.

1. Describe your control program that assures that a length of drill string long enough to reach the lower vessel head is not available. This should include the case where a drill hole is abandoned due to a broken bit.
2. What load restrictions (i.e., torsional, horizontal and vertical force limits) will be placed on the core bore equipment to ensure that incore instrument nozzles will not be degraded. What is their bases?
3. Please provide details of drilling platform and actions including:
  - a. Load and load distribution of platform
  - b. Location of supports and contact points
  - c. Dynamic effect of drilling action
  - d. Total weight of drill rig
4. Please provide analyses and calculations to substantiate that:
  - a. Existing structure can take the platform load and operating forces
  - b. Reactor vessel can take the operating forces; and
  - c. Accidents in operation will not damage the system
5. Assuming failure of an incore instrument nozzle what is the maximum leak rate? (Include comparison to makeup rate and recirculation rate)

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Mr. F. R. Standerfer

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November 26, 1985

Based upon discussions between our staffs we understand that the next revision to your SER may obviate the need to respond to item 2. If that is the case your response to this item may be omitted.

Sincerely,

William D. Travers  
Director  
TMI-2 Cleanup Project Directorate

CC: T. F. Demmitt  
R. E. Rogan  
S. Levin  
W. H. Linton  
J. J. Byrne  
A. W. Miller  
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(see attached)

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