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August 8, 1983  
NRC/TMI 83-050

Mr. B. K. Kanga, Director  
Three Mile Island Unit  
GPU Nuclear Corporation  
P. O. Box 480  
Middletown, PA 17057

Dear Mr. Kanga:

Subject: TMI Nuclear Station, Unit 2  
Operating License No. DPR-73  
Docket No. 50-320  
Reactor Vessel Head and Internals Handling Fixture

On July 8, 1983, the NRC requested information from GPU Nuclear Corporation (GPUNC) on what actions were planned relative to the undersized welds discovered on the TMI-2 Reactor Vessel Head and Internals Handling Fixture (Tripod). You provided a response to the NRC with your letter dated August 1, 1983, which forwarded an analysis of the tripod welds concluding that the tripod is adequate for its intended service. Subsequently, discussions were held between NRC and your staff (including Babcock and Wilcox and Bechtel personnel) to discuss the technical details of your submittal. The enclosed questions resulted from these discussions and should be promptly answered so that we can conclude our review of your August 1, 1983 letter.

Original signed by  
Original signed by  
Lake H. Barrett  
Deputy Program Director  
TMI Program Office

Enclosure: As stated

cc: J. Barton  
J. Byrne  
J. Larson

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PDR ADOCK 05000320  
PDR

|         |              |  |  |  |  |  |
|---------|--------------|--|--|--|--|--|
| OFFICE  | TMI PDR      |  |  |  |  |  |
| SURNAME | LHBarrett:wa |  |  |  |  |  |
| DATE    | 8/8/83       |  |  |  |  |  |

Additional Questions on the Reactor Vessel Head  
and Internals Handling Fixture (Tripod)

1. Provide the NRC with an ALARA dose estimate for performing a non-destructive examination (e.g., liquid penetrant, magnetic particle) on three of the more highly stressed welds on the tripod. You should provide a separate dose estimate for an examination before and after the load test. Also state your justification for the selected welds.
2. Provide additional quantitative information to support your conclusion that the member that you performed the finite element stress analysis for has the maximum stress on the welds when compared to the other two members of the tripod.
3. Provide the staff with quantitative critical stress data for the top lifting lug, angular leg, the horizontal beams, the bottom clevis plate, the gusset, and the horizontal strut.

Dr. Thomas E. Murley

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