

Certified By

mal

GPU Nuclear Corporation
Post Office Box 480
Route 441 South
Middletown, Pennsylvania 17057-0191
717 944-7621
TELEX 84-2386
Writer's Direct Dial Number:

October 3, 1983
5211-83-285

Dr. Thomas E. Murley
Region I, Regional Administrator
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
LER 83-032

This is to confirm the conversation between Mr. F. Young, Region I, NRC and Mr. M. A. Nelson, Supervisor Unit 1 Review Program, at 1615 hours on September 30, 1983.

As a follow-up to an internal Material Non-Conformance Report (MNCR) concerning instrument tube sloping both thermal and seismic stress on instrument tubes were reevaluated. The portion of the tubing evaluated was primarily from the main piping to which the tubing is attached to the first tubing anchor. Movement resulting from thermal expansion of the main piping was also included in the analysis. The criteria used in the evaluation are that calculated stresses caused by seismic and thermal effects shall not exceed the stress limits in the USAS B31.1 Code of Pressure Piping. For a number of instrument lines, stress criteria for one or both of these loading criteria are not met. This condition is considered reportable under Technical Specification 6.9.2.A.9.

Even though the USAS B31.1 Code Stress Criteria were not met, the evaluation results reveal that the stresses resulting from thermal loads are below the ASME III operability stress criteria of two times the materials yield strength. Furthermore, a check of the fatigue characteristics of the tubing revealed that the allowable number of cycles permitted exceeds the actual number of heatup and cooldown cycles that have been experienced

8310070263 831003
PDR ADDCK 05000289
S PDR

Dr. Thomas E. Murley

-2-

5211-83-285

at TMI-1. Consequently this LER does not constitute a safety issue but only a non-conformance of the applicable (USAS B31.1) code cited in the FSAR.

The details of this finding will be provided in the 14 day followup report.

Sincerely,

R. J. Toole

R. J. Toole
Operations and Maintenance
Director, TMI-1

RJT:RH:vjf
cc: R. Conte

2011/04/11 05:12PM