GPU Nuclear

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January 23, 1986
5211-86-2007

Office of Nuclear Reactor Regulation
Attn: J. F. Stolz, Director
PWR Projects Directorate No. 6
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Stolz:

Three Mile Island Nuclear Station Unit 1 (TMI-1)
Operating License No. DPR-50
Docket No. 50-289
USNRC Final Rulemaking - Analysis of Potential
Pressurized Thermal Shock Events (10CFR50.61)

USNRC Rule 10CFR50.61 requires that licensees submit projected values of reference temperatures for pressurized thermal shock evaluation (RT_{PTS}) and the bases for those projections by January 23, 1986.

In accordance with these requirements, enclosed as Attachment 1 is Babcock and Wilcox Owners Group Report BAW-1895, Rev. 0 entitled "Pressurized Thermal Shock Evaluations in Accordance with 10CFR50.61 for Babcock and Wilcox Owners Group Reactor Pressure Vessels". GPU Nuclear Corporation (GPUN) endorses the Owners Group report with respect to Three Mile Island Unit 1. The calculated RT_{PTS} of the limiting SA-1526 weld is 207°F as of January 23,1986. As shown in Table 4-4 of Attachment 1, the calculated RT_{PTS} of this limiting weld meets the screening criterion at the expiration of the operating license.

Table 4-4 of Attachment 1 indicates that the calculated RT_{PTS} for the SA-1526 weld will exceed the screening criteria before the 32 EFPY design lifetime. GPUN intends to monitor reactor vessel fluence throughout plant life. If later projections still indicate that the screening criteria will be exceeded during some extended plant life up to 32 EFPY, plant-specific reactor vessel integrity evaluations will be undertaken at the appropriate time.

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Also, we are continuing to participate in efforts to refine materials chemistry characterization, fluence analyses and dosimetry, and further flux reduction through improved cycle design techniques.

Sincerely,

for H. D. Hukill
Director, TMI-1

SK:HDH:jh
0463A

Attachment

cc: J. Thoma
R. Conte