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4410-85-L-0237
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November 25, 1985

TMI Program Office
Attn: Dr. W. D. Travers
Acting Director
US Nuclear Regulatory Commission
c/o Three Mile Island Nuclear Station
Middletown, PA 17057

Dear Dr. Travers:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. UPR-73
Docket No. 50-320
Defueling Hydraulic System Fluid Testing

GPU Nuclear letter 4410-85-L-0215, dated October 29, 1985, provided the results of testing performed on various fluids being considered for use in the defueling hydraulic system. In that letter, GPU Nuclear noted that two fluids (Borate Ester/UCON WS-34 mixture and UCON WS-34/Boric Acid mixture) were acceptable; however, the UCON WS-34/Boric Acid mixture would be used based on availability.

Since initiating defueling activities, problems have been encountered with the UCON WS-34/Boric Acid mixture. Although boron concentration remained above the required 4350 ppm, precipitation of boric acid crystals has occurred. To preclude further deterioration of the hydraulic fluid in the system and potential adverse effects on the defueling tooling, GPU Nuclear intends to drain and flush the hydraulic system and replace the WS-34/Boric Acid mixture with the UCON WS-34/Borate Ester mixture. The replacement fluid will be a 75/25 UCON WS-34/Borate Ester volumetric ratio as described in the referenced letter.

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Dr. W. D. Travers

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GPU Nuclear will keep you apprised of the status of this activity and of any new developments regarding hydraulic fluids and hydraulic system performance.

Sincerely,

A handwritten signature in dark ink, appearing to read "F. R. Standerfer". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

F. R. Standerfer
Vice President/Director, TMI-2

FRS/RBS/eml