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50-289

MEMORANDUM FOR: Gus C. Lainas, Assistant Director
for Operating Reactors
Division of Licensing

FROM: William V. Johnston, Assistant Director
Materials, Chemical & Environmental Technology
Division of Engineering

SUBJECT: SUPPLEMENTAL SAFETY EVALUATION OF THREE MILE ISLAND
UNIT NO. 1 FOR RETURN TO SERVICE AFTER REPAIR OF OTSG
CORROSION (TAC #47484)

Plant Name: Three Mile Island Unit No. 1
 Utility: General Public Utilities Nuclear Corporation
 Supplier: Babcock & Wilcox, Gilbert
 Licensing Stage: OR
 Docket No. 50-289
 Responsible Branch & Project Manager: ORB #4, J. Van Vliet, H. Silver
 DOE Reviewers: C. McCracken (Lead), L. Frank, S. Kirslis, J. Rajan,
 D. Sellers, P. Wu
 Task Description: Supplemental Safety Evaluation of the OTSG's
 and RCS for return to service
 Review Status: SSER Complete

In the SER, we concluded that the OTSG and RCS had been returned to an acceptable condition for service. By letters dated September 14, 1983 and October 25, 1983, the licensee provided, respectively, Rev. 3 of Topical Report 008 and the OTSG pre-critical non-nuclear hot functional test results (TDR-488). Additionally, by letter dated September 30, 1983, the licensee provided comments on our SER.

Attached is the evaluation by Chemical Engineering, Materials Engineering, and Mechanical Engineering Branches. This review is based on Rev. 3 of the Licensee's Topical Report 008, TDR-488, and includes an evaluation of the licensee's comments on the SER.

Our consultant, Brookhaven National Laboratory (BNL), has provided assistance in the evaluation of Topical Report 008, Rev. 3. BNL's TER is attached.

This additional information does not alter the conclusions we reached in our SER. However, the proposed license conditions should be modified to reflect

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Gus C. Lainas

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the additional information we received. Suggested re-wording for the license conditions is enclosed.

for 1st B.D. Liaw
William V. Johnston, Assistant Director
Materials, Chemical & Environmental
Technology
Division of Engineering

Enclosure: As stated

- cc: R. Vollmer
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- J. Rajan
- D. Sellers
- P. Wu
- S. Young (Resident)
- H. Gray (Region)

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