

REQUEST FOR ADDITIONAL INFORMATION

EQUIPMENT ENVIRONMENTAL QUALIFICATION (EEQ)
REVIEW OF LICENSEES' RESOLUTION OF OUTSTANDING ISSUES
FROM NRC EQUIPMENT ENVIRONMENTAL QUALIFICATION SAFETY
EVALUATION REPORTS (SER) AND TMI ACTION PLAN INSTALLED EQUIPMENT

George Power Company

E. I. Hatch Unit 1

NRC Docket No. 50-321

December 11, 1981

NRC TAC No. 42505

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BACKGROUND

Franklin Research Center (FRC) of Philadelphia, Pa. is providing assistance to the U.S. Nuclear Regulatory Commission (NRC) for the equipment environmental qualification (EEQ) review of operating reactors. FRC will perform an EEQ review of the Licensee's 90-day response to outstanding issues from the NRC Equipment Environmental Qualification Safety Evaluation Report (SER) and the installed TMI Action Plan equipment. The review will be limited to safety-related equipment potentially exposed to a harsh environment. The results will be presented in the form of a technical evaluation report for each plant.

This request for additional information (RFI) is the result of an evaluation of the information provided by letters dated September 14, 1981 [1], February 1, 1982 [2], and March 5, 1981 [3].* FRC previously requested TMI Action Plan information by telephone memoranda dated July 27, 1981 and September 14, 1981 [4,5].

In response to Reference 4, Georgia Power Company transmitted the following information which was received at FRC on August 14, 1981 [6]:

1. Southwest Research Institute letters to Hays Republic Div. Milton Roy Company, dated 29 May 1980, 19 November 1979, 21 February 1980, and 26 February 1980, concerning SwRI Project No. 11-5453-013, "Irradiation of Instrumentation."

A. FRC REVIEW OF THE LICENSEE'S 90-DAY RESPONSE TO THE NRC EEQ SER

<u>Information Requested</u>	<u>Date Received by FRC**</u>
1. In reference to the Licensee's 90-day response [1] to the NRC SER [7], a legible single copy of each of the following qualification documents is requested in order that the FRC evaluation may proceed:	

*Numbers in brackets refer to citations found in the list of references.

**This column will be completed by FRC as the requested information is received.

Date Received by FRC**

- a. Mech. Calculation No. 1, Vol. 5, Rev. 0.
- b. HNP-2 Mech. Calculation No. 296, Rev. 0.
- c. General Electric Information Document No. 22A5230.
- d. Westinghouse Order No. (test) AT-18008-Y1.
- e. Target Rock Corp. Test Report 1559 dated December 13, 1976.
- f. Static-O-Ring Test Report 7924-101 dated May 22, 1979.
- g. Control System Calculation No. 16.
- h. HNP-1 Electrical Calculation No. 24.
- i. Terminal Block LOCA Test by General Electric Co., dated November 6, 1973.
- j. Wyle Laboratories Report No. 44354-1.
- k. Hatch Unit 1, Electrical Calculation No. 28.
- l. Hatch Unit 1, Electrical Calculation No. 29.
- m. The Okonite Company Engineering Report No. 110E***
- n. The Okonite Company Engineering Report Form N-1.***
- o. Hatch Unit 1, Electrical Calculation No. 25.
- p. Hatch Unit 1, Electrical Calculation No. 21.
- q. Hatch Unit 1, Electrical Calculation No. 18.***

***These documents were previously requested in Reference 5 but have not been received by FRC.

Date Received by FRC**

- r. Hatch Unit 1, Electrical Calculation No. 22.
- s. HPN-1 Electrical Calculation No. 23.
- t. General Electric Qualification Test for Electrical Penetration Assemblies, April 30, 1971.
- u. Square D Company Bulletin NEQ-80, "Nuclear Environmental Qualification Test Report Summary."
- v. BIW Test Report No. 8807.
- w. G.E. Bulletin CDS-2195.
- x. Hatch Unit 1, Electrical Calculation No. 27.
- y. AMP Engineering Test Report GPR 575-99.
- z. AMP Engineering Test Report EER-35.
- aa. Hatch Unit 1, Elect. Calculation No. 20.
- bb. Electros witch Technical Publication ESC-STD-1000.
- cc. Electros witch Letter dated May 10, 1980. Subject: Series 20/40 Radiation Test.
- dd. Estimation of Qualified Life of EA740 Series Nuclear Switch, Rev. 3 dated February 27, 1980.
- ee. G.E. Letter G-GPC-0-249 dated October 23, 1980.
- ff. G.E. VPF 2793-54-3.
- gg. G.E. VPF 3379-243-1.
- hh. Central System Calculation 22 Rev. 0.
- ii. Hatch Unit 1 Electrical Calculation No. 19.

Date Received by FRC**

- jj. Hatch Unit 1 Electrical Calculation No. 26.
- kk. General Electric Qualification Report on ECCS Motor for E.I. Hatch Unit No. 1 NSE 17-0481-1
- ll. G.E. VPF 3379-214-2
- mm. G.E. Letter G-GPC-1-202 dated September 2, 1981.
- nn. Rosemount Letter dated August 12, 1981.
- oo. Rosemount Report 127227.
- pp. Rosemount Report 97215A.

REFERENCES

1. J. T. Beckham, Jr.
Letter to J. P. O'Reilly, NRC. Subject: Environmental Qualification of Safety-Related Equipment; Revision 3 - Response to SRF for Edwin I. Hatch Nuclear Plant
Georgia Power Co., 14-Sep-81
2. W. A. Widner
Letter to J. P. O'Reilly, NRC. Subject: Response to IE Bulletin 79-01B Supplement 3.
Georgia Power Co., 01-Feb-81
3. W. A. Widner
Letter to J. P. O'Reilly, NRC. Subject: Georgia Power Company's Update of its IE Bulletin 79-01B Response dated February 17, 1981. (Attached)
Georgia Power Co., 05-Mar-81
4. Telephone Memorandum
J. A. Murphy (FRC) with R. Baker (Georgia Power Co.)
Subject: Request for Information for Hatch Units 1 and 2
July 27, 1981
5. Telephone Memorandum
K. Iepson and D. Schmitz (FRC) with R. Baker (Georgia Power Co.)
Subject: Request for Information for Hatch Units 1 and 2.
September 14, 1981
6. Draft letter to FRC, transmitting documentation references and cold shutdown information. (Information requested via telecon, 7/24/81.)
Letter received 8/14/81.
Georgia Power Co., 00-Aug-81
7. Office of Nuclear Reactor Regulation
Safety Evaluation Report for Hatch Unit 1
Environmental Qualification of Safety-Related
Electrical Equipment
NRC, 16 Jun-81
8. NUREG-0737, "Clarification of TMI Action Plan Requirements"
NRC, November 1980