

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

Duke Power Company

Oconee Unit 3

NRC Docket No. 50-287

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NRC TAC No. 42511



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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 15, 1980 [1] and September 18, 1981 [2].*

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

Information RequestedDate Received by FRC**

1. In reference to the Licensee's 90-day response [2] to the NRC SER [3], a legible single copy of each of the following qualification documents is requested in order that the FRC evaluation may proceed [The identification of those reports considered to be proprietary is requested so that proper control of documents can be maintained.]:
 - a. Rotork Test No. N/11/4-1970 (Ref. 7)
 - b. Okonite Engineering Report 110E (Ref. 8)
 - c. Okonite Engineering Report N-1 (Ref. 9)
 - d. Raychem Spec. 44 dated 4/12/68, Cable Data Sheet dated 3/30/67, Military Spec. MIL-W-81044B, Duke Power Company Stock File 1-D-1 (Ref. 12)

*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**

- e. Duke Power Company Report No. TR-012
(Ref. 14)
- f. B&W Report No. 58-0081-00 (Ref. 15)
- g. B&W Report No. 58-0080-00 (Ref. 17)
- h. Penetration Qualification Reports
(Ref. 18)
- i. B&W Test Report No. 58-0093-00 (Ref. 19)
- j. B&W Test Report Nos. 58-0261-00 and
58-0220-00 (Ref. 20)
- k. Letter from C. A. Driggers to R. F.
Wardell dated 3-25-80 (Ref. 24)
- l. Duke Power Company Report Nos. TR-017 and
TR-025 (Ref. 28)
- m. Wyle Lab Test 17374-1 (Ref. 29)
- n. Louis Allis Letter dated 5/30/80 and
Radiation Qualification Sheet (Ref. 32)
- o. B&W Topical Report No. B&W-1000 3A, Rev.
4 (Ref. 33)
- p. Okonite Engineering Report N-1 (Ref. 35:
if different from Ref. 9)
- q. TMI Modifications - Device Operating
Times (Ref. 36)
- r. Brand-Rex Aging Test (Part of Ref. 37)
- s. B&W Report No. 58-0372-01 (Ref. 38)
- t. Gould-Brown Boveri Report 33-53729-0S
(Ref. 39)
- u. Duke Power Company Report No. TR-028
(Ref. 40)
- v. Rockwell International Y75-243-025-RS-037
(Ref. 41)

Date Received by FRC**

w. General Semiconductor Industries
Temperature Test of 12/3/80 (Ref. 42)

2. In Reference 2, the Licensee's SCEW sheets list two buildings, with various areas and elevations for each building, but only two sets of temperature/pressure profiles are provided (Licensee References 1 through 4). Are these environmental profiles applicable to all areas and elevations in each of the buildings? If not, FRC requests the additional profiles for those areas described on the SCEW sheets in Reference 2.
3. In Reference 2, the Licensee's SCEW sheets do not list the equipment item's model number, but give the equipment item's serial number. Since most, if not all, test reports cited as evidence of qualification are applicable to a specific model number or type, FRC requests that the Licensee provide the model numbers for all equipment items in Reference 2 or state which of the serial numbers are in fact the model numbers.
 - a. For motors and motorized valve actuators, the model number should include the frame size, motor manufacturer, class of insulation, and whether or not it is ac or dc.
 - b. For cables, information on the number of conductors, the wire size, the type and thickness of the insulation and jacket, any shielding, and whether the cable is for power, control, or instrumentation should be provided.

REFERENCES

1. Oconee Nuclear Station Response to
IE Bulletin 79-01B, Unit 3 Review 4.
Duke Power Company, 15-Sep-80
2. Oconee Nuclear Station Response to
IE Bulletin 79-01B; Revision 7, including
Response to Equipment Qualification Safety
Evaluation Report
Duke Power Company, 18-Sep-81
3. Office of Nuclear Reactor Regulation
Safety Evaluation Report for Oconee Unit 3
Environmental Qualification of Safety-Related
Electrical Equipment
NRC, 1981
4. A. C. Thies
Letter to J. P. O'Reilly, NRC. Subject: Revision 6
to Response to IE Bulletin 79-01B, with Attachments
Duke Power Company, 30-Jan-81
5. NUREG-0737, "Clarification of TMI Action Plan Requirements"
NRC, November 1980