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JAN 08 1982

Docket Nos. 50-250
and 50-251

Dr. Robert E. Uhrig, Vice President
Advanced Systems and Technology
Florida Power and Light Company
Post Office Box 529100
Miami, Florida 33152

Dear Dr. Uhrig:

SUBJECT: ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT
REQUEST FOR ADDITIONAL INFORMATION

We have completed a preliminary review of your response to our Safety Evaluation concerning the Environmental Qualification (EQ) of Safety-Related Electrical Equipment. Our contractor (Franklin Research Center) has identified information, in most cases references from your submittals, which we need in order to complete our review. This information should all be contained in your EQ central file. For this purpose, the requested information can be taken from your EQ central file and provided to our contractor. Upon completion of the review the information will be returned to you for replacement into the EQ central file.

We request that you supply this information within 30 days of the date of this letter. Please send a full submittal to Franklin Research Center (address in Enclosure) and only the cover letter to us. Address the letter to S. Varga, Chief, Operating Reactor Branch No. 1. Please contact your Project Manager for further assistance in this regard.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

Original signed by:
S. A. Varga

Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

OFFICE	ORB#1:DL	ORB#1:DL					
SURNAME	MGrotenhuis	SVarga					
DATE	01/8/82:ds	01/8/82					

Robert E. Uhrig
Florida Power and Light Company

cc: Mr. Robert Lowenstein, Esquire
Lowenstein, Newman, Reis and Axelrad
1025 Connecticut Avenue, N.W.
Suite 1214
Washington, D. C. 20036

Environmental and Urban Affairs Library
Florida International University
Miami, Florida 33199

Mr. Norman A. Coll, Esquire
Steel, Hector and Davis
1400 Southeast First National
Bank Building
Miami, Florida 33131

Mr. Henry Yaeger, Plant Manager
Turkey Point Plant
Florida Power and Light Company
P. O. Box 013100
Miami, Florida 33101

Mr. Jack Shreve
Office of the Public Counsel
Room 4, Holland Building
Tallahassee, Florida 32304

Administrator
Department of Environmental Regulation
Power Plant Siting Section
State of Florida
2600 Blair Stone Road
Tallahassee, Florida 32301

Resident Inspector
Turkey Point Nuclear Generating Station
U. S. Nuclear Regulatory Commission
Post Office Box 1207
Homestead, Florida 33030

RFI-C5257-480

INSTRUCTIONS FOR TRANSMITTING INFORMATION REQUESTED

1. The schedule for completion of the FRC assignment requires that the Licensee provide the requested information within 30 days of the date of the RFI.

2. The Licensee may transmit the requested information as follows:

o cover letter to NRC and complete package to FRC.

FRC mailing address is as follows:

Mr. Cyril J. Crane
Franklin Research Center
The Parkway at Twentieth Street
Philadelphia, PA 19103

Telephone No. 215/448-1353
Telecopy No. 215/448-1296
Telecopy Confirmation No. 215/448-1215

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

Florida Power and Light Company

Turkey Point Unit 3

NRC Docket No. 50-250

December 11, 1981

NRC TAC No. 42470

Franklin Research Center
A Division of The Franklin Institute
The Benjamin Franklin Parkway, Phila., Pa. 19103 (215) 448-1000

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 June 2, 1980 [1] and August, 1981 [2].* FRC previously requested TMI Action Plan information by a telephone memorandum dated August 14, 1981 [3]. In response to that request, Florida Power and Light Company provided the following information on August 14, 1981:

1. The cable description for the cable listed on SCEW Sheet 13-29: W-C Cross-linked polyethylene insulation with a neoprene jacket.

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

Information Requested	Date Received by FRC**
1. In reference to the Licensee's 90-day response [2] to the NRC SER [4], 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. Fischer & Porter Letter 3-6-75 with Ameron Lab Test #1550a dated 3-23-72 (Ref. 8)	

*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**

b. Westinghouse Letter NS-CE-1586, 10-28-77 (Ref. 9)

c. Joy Engineering Test Report 1969, V.P. 5610-M-39-41-1 (Ref. 10)

d. FPL Letter L-75-247 to NRC, May 21, 1975 (Ref. 18)

e. Engineering Analysis of Dousing Valves (Ref. 21)

f. Analysis of Operating Time for Devices Covered in IE Bulletin 79-01B Master List (Ref. 22)

g. Raychem Letter 4-14-80 on Heat Shrinkable Tubing "RNF-100" (Ref. 23)

h. Okonite Letter (March 22, 1971) to Bechtel and IEEE Transactions Paper, Vol. PAS 88, No. 5 May 1969 (Ref. 24)

i. Bechtel Letter (April 7, 1980) to Okonite and Okonite Reply (April 10, 1980) (Ref. 25)

j. Engineering Analysis of Crouse-Hinds Penetrations (Ref. 26)

k. Westinghouse Specification Sheets for Instruments (Ref. 27)

l. A Status Report on G.E. Wire and Cable Department Comprehensive Testing Program with Cover Letter from G.E. dated May 30, 1949, and Mathematical Analysis (Ref. 29)

m. Engineering Analysis of Thermocouple Extension Wire (Ref. 30)

n. Continental Wire & Cable Test Report and Mathematic Analysis (Ref. 31)

o. Charcoal Filter Temperature Elements - Environmental Qualification - Engineering Analysis (Ref. 32)

Date Received by FRC**

p. Containment-Vent Air Flow Switches - Environmental Qualification - Engineering Analysis (Ref. 33)

q. ITT Barton Quality Release for Level Transmitters (Ref. 34)

r. Engineering Analysis for Replacement Solenoid Valves (Inside Containment) (Ref. 35)

s. Fischer & Porter Differential Pressure Transmitter - Temperature Extrapolation (Ref. 36)

t. Engineering Analysis of Mackworth G. Rees Local Control Stations (Ref. 38)

u. Scotch Type 23 Electrical Tape - Product Data & 3M Letter of 4-14-80 (Ref. 39)

v. Static O Ring Pressure Switches - Engineering Analysis on Qualification (Ref. 41)

w. Engineering Analysis on Qualification of Motorola Pressure Transmitters (Ref. 42)

x. Engineering Analysis of RCS to RHR Inlet Isolation Valves (Ref. 45)

y. Environmental Qualification/Analysis of United Electric Pressure and Level Controllers (Ref. 46)

z. Engineering Analysis - Qualification of Solenoid Valve in Auxiliary Building and Steam Line Break Areas (Ref. 48)

aa. Engineering Analysis Charcoal Filter Dousing Valves (Ref. 49)

bb. Qualificaton Analysis for NAMCO Limit Switches (Ref. 50)

cc. Isomedix Test Report for Instrument Cable for PT-406 and PT-407 RCS Pressure Transmitters (Ref. 51)

Date Received by FRC**

dd. Qualification of Replacement NAMCO Controls Limit Switch Model EA-180-11320 (Ref. 52)

ee. Engineering Analysis for Aging of Devices Covered in IEB-7901B Master List (Ref. 53)

ff. General Electric Letter to Bechtel dated May 16, 1980 (Ref. 56)

gg. Engineering Analysis of ITT Barton Pressure Controllers & Differential Pressure Switches (Ref. 55)

hh. Chempump Letter to Bechtel dated June 10, 1980 (Ref. 56)

ii. Fisher Controls Letter to FPL dated May 2, 1980 and Type 546 Bulletin (Ref. 57)

jj. Engineering Analysis-Radiation Detectors RD-11, RD-12 (Ref. 58)

kk. Engineering Analysis of Dayton Motors (Ref. 59)

ll. Engineering Analysis and Product Specifications for Foxboro Instruments (Ref. 60)

mm. Qualification Test Report No. 770831 for PYCO Temperature Detectors (Ref. 61) [FRC previously requested this information in Reference 3]

nn. Rockbestos Qualification Test Report of June 7, 1978 for Firewall III Class 1E Electric Cables (Ref. 63)

oo. Qualification Test Report (T.E.C. No. 517-TR-03) for Environmental and Seismic Testing (Ref. 64)

REFERENCES

1. R. E. Uhrig
Letter to J. P. O'Reilly (NRC)
Subject: Response to Items 1, 2, and 3 of IE Bulletin 79-01B
Florida Power & Light Co., 02-Jun-80, L-80-166

2. Environmental Qualification of Electrical Equipment - IE Bulletin 79-01B; Response to the Safety Evaluation Report by the Office of Nuclear Reactor Regulation
Florida Power & Light Co., August 1981

3. Telephone Memorandum
M. Williams, M. Grotenhaus, T. Le (NRC); D. Channey, L. Craig, R. Kaminsky (FP&L); and C. J. Crane, R. Krapf, W. Steigelmann (FRC)
Subject: TMI-Action Plan Review Request for Additional Information
Dated August 14, 1981

4. Office of Nuclear Reactor Regulation
Safety Evaluation Report for Turkey Point Units 3 and 4
Environmental Qualification of Safety-Related
Electrical Equipment
NRC, 21-May-81

5. R. E. Uhrig
Letter to J. P. O'Reilly (NRC)
Subject: Supplements to Response to IE Bulletin 79-01B, Supplement 3 dated July 3, 1980
Florida Power & Light Co., 12-Feb-81, L-81-49

6. NUREG-0737, "Clarification of TMI Action Plan Requirements"
NRC, November 1980

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

Florida Power and Light Company

Turkey Point Unit 4

NRC Docket No. 50-251

December 11, 1981

NRC TAC No. 42471

Franklin Research Center
A Division of The Franklin Institute
The Benjamin Franklin Parkway, Phila., Pa. 19103 (215) 448-1000

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   Electrical Equipment
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