

2/20/92

JOSEPH M. FARLEY NUCLEAR PLANT
NUCLEAR GENERATION DEPARTMENT
MEMORANDUM

0063403

FOCKETED
USNRC

SUBJECT: IE Information Notice (IEN)
84-47: Environmental
Qualification Tests of Electrical
Terminal Blocks
FNP-86-0305

DATE: May 27, 1986⁹² MAR 13 A11:58OK AV DFW
6/23/86
DWM
OFFICE OF SECRETARY
DOCKING & SERVICE
BRANCH

TO: File

FROM: M. D. Freeman

IE Information Notice (IEN) 84-47 refers to the results of a recent NRC-sponsored environmental qualification methodology research test conducted on electrical terminal blocks. It highlights a potential concern that may exist when terminal blocks are exposed to a steam environment. The results of the test show that a moisture film will form on the surface of the terminal block during the simulation of the Loss Of Coolant Accident/Main Steam Line Break (LOCA/MSLB) simulations and that the leakage currents may be of significance in some applications.

In view of the above, licensees are suggested to (1) review their facilities to determine if the specific terminal blocks are used in low-voltage applications, and (2) review terminal block qualification document to ensure that the functional requirements and associated loop accuracy of circuits utilizing terminal blocks will not degrade to an unacceptable level due to the flow of leakage currents that might occur during design basis events.

FNP uses States Terminal Blocks in safety-related applications requiring Environmental Qualification. A complete test report and justification for environmental qualification of these terminal blocks is contained in the Environmental Qualification Manufacturers File Index. FNP qualification of these terminal blocks addresses leakage currents. It also includes consideration for accelerated aging and seismic testing as well as LOCA and caustic spray testing. Therefore, FNP has confidence in the reliability of its terminal blocks.

Based on the above information, no further action is required with regard to this notice. Approximately two man-hours were expended in the research and preparation of this response.

Prepared By

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Reviewed By

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Approved By

J. D. Woodard

Staff Exh. 60

NUCLEAR REGULATORY COMMISSION

Docket No. SD-348/364-CivP Official Ex. No. 60
In the matter of Alabama Power Company
Staff ✓ IDENTIFIED 2:04 p.m. 2/5/92
Assistant RECEIVED
Inspector REJECTED
Chief of Div. DATE
Contractor Witness
Other Reporter L. Estep