

AUG 29 1983

MEMORANDUM FOR: Harold R. Denton, Director, NRR
Robert B. Minogue, Director, RES
Richard C. DeYoung, Director, IE
Thomas E. Murley, Regional Administrator, Region I
James P. O'Reilly, Regional Administrator, Region II
James G. Keppler, Regional Administrator, Region III
John T. Collins, Regional Administrator, Region IV
John B. Martin, Regional Administrator, Region V

FROM: C. J. Heltemes, Jr., Director
Office for Analysis and Evaluation
of Operational Data

SUBJECT: CASE STUDY REPORT - OPERATING EXPERIENCE RELATED TO
MOISTURE INTRUSION IN ENVIRONMENTALLY QUALIFIED ELECTRICAL
EQUIPMENT AT COMMERCIAL POWER PLANTS

Several occurrences of safety-related equipment failures resulting from moisture intrusion have been found in the licensee event reports (LERs). Primarily involved are electrical components located in high humidity/high temperature areas of the reactor building. Alerted by these events, AEOD has performed a case study on moisture intrusion in environmentally qualified electrical equipment and our preliminary report on the subject is enclosed.

In accordance with our "peer review" process prior to the finalization and distribution of our case study reports, we are providing NRR, IE, RES, INPO, AND NSAC with a copy of a preliminary report for review and comment, particularly regarding accuracy and completeness of the technical details. Changes to the findings, conclusions, and recommendations will be considered only if the underlying information concerning the details of plant design or systems operation is in error. Therefore, comments are being solicited on the technical accuracy of the report. The findings, conclusions, and recommendations are provided for your information in order that you may understand the significance AEOD places on this concern and therefore obtain a more complete picture of the total report. We would welcome comments either informally by phone or formally by memo.

Since we wish to finalize and issue the report shortly, we ask that any comments be received by us within 30 days from receipt of the preliminary copy. Should your office require some additional time beyond that point, please let us know, otherwise it will be assumed that there are no comments.

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We are also placing a copy of the preliminary report in the Public Document Room. If you have any questions regarding this matter, please contact Medhat El-Zeftawy of my staff. Mr. El-Zeftawy can be reached at 301/492-4434.

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C. J. Heltemes, Jr., Director
Office for Analysis and Evaluation
of Operational Data

Enclosure:
As stated

cc: w/enclosure
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