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AUTH.NAME AUTHOR AFFILIATION
ALEXICH,M.P. Indiana & Michigan Electric Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards response to NRC 840221 request for addl info re seismic qualification of Mercoid pressure switches & relays. Switches in both units will be replaced by end of next Unit 2 fuel outage.Agastat 7000 relays seismically qualified.

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INDIANA & MICHIGAN ELECTRIC COMPANY

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June 1, 1984

AEP:NRC:0001D

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
Seismic Qualification of Electrical Equipment
Request for Additional Information

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: Letter from Mr. Steven A. Varga, NRC to Mr. John E. Dolan dated February 21, 1984

Dear Mr. Denton:

This letter and its Attachments transmit the additional information requested in the above referenced letter regarding the seismic qualification of the Mercoid Pressure Switches and Relays. The following are the Indiana & Michigan Electric Company's responses to the items noted in the above referenced letter:

Mercoid Switches:

A copy of the Acton Laboratory Test Report is enclosed as Attachment No. 1, summarizing a test program conducted on various models of Mercoid Type DAW pressure switches. The models tested cover all of the types and ranges used for interlock and trip purposes in the safety systems.

A replacement program is in progress at D. C. Cook Plant to replace all other types of pressure switches used for interlock and trip purposes in safety systems with the type DAW switch. At this time, 18 switches out of 97 have been replaced in the 2 Units. All switches in both units will be replaced by the end of the next refueling outage for Unit 2.

Agastat Relays:

In the Donald C. Cook Nuclear Plant, Agastat 7000 and E7000 series relays and their predecessor 2400 series relays are installed in the safety systems. AEP:NRC:0001A submitted the qualification data for the E7000 series relays. We have since made a comparison study between the 7000 series relay and the E7000 series relay and

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have found no significant differences between them. Based on our engineering evaluation, we believe that the 7000 series of Agastat relays are seismically qualified by the E7000 series qualification report. A copy of document no. E7012/E7020 is enclosed as Attachment No. 2. Sheet 19 of 22 of Attachment No. 2 identifies the failure criteria for the contacts during the seismic testing for the Non-Operating Mode, the Operate Mode and the Transitional Mode. The functionality of the relay was demonstrated by monitoring the contacts during the seismic tests for the modes listed.

GE Relays:

General Electric Co. Model 12PJC11AV1A and 12PJC11X1A relays are used in the 4 kv switchgear. The relay elements are physically similar in both models, differing only in the current rating of the operating coils. The 12PJC11AV1A relay has one element in a semi-flush mounted case. The 12PJC11X1A contains 3 elements in a single case. The mounting method, physical dimensions, and moveable elements of both types of relays are identical. Therefore, based on our engineering evaluation, it is our belief that the qualification testing for the 12PJC11AV1A relay as transmitted by our letter AEP:NRC:0001B is also applicable to relay 12PJC11X1A.

This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to insure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,

M. P. Alexich
Vice President

MPA/cm

Attachments

cc: John E. Dolan (w/o attachments)
W. G. Smith, Jr. - Bridgman (w/o attachments)
R. C. Callen (w/o attachments)
G. Charnoff (w/o attachments)
E. R. Swanson, NRC Resident Inspector - Bridgman (w/o attachments)

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ATTACHMENT NO. 1

TO

AEP:NRC:0001D

ATTACHMENT NO. 2

TO

AEP:NRC:0001D