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 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHUR AFFILIATION
 HUNTER, R.S. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Explains util failure to provide fire dampers in intake & exhaust ventilation openings to emergency diesel generator rooms & informs of plans to install seismically qualified fire-rated dampers.

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INDIANA & MICHIGAN ELECTRIC COMPANY

P. O. BOX 18
BOWLING GREEN STATION
NEW YORK, N. Y. 10004

July 2, 1982
AEP:NRC:0670A

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
FIRE PROTECTION - DIESEL GENERATOR ROOM HVAC
AIR INTAKE AND EXHAUST DAMPERS

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

Dear Mr. Denton:

During the NRC's Special Team Inspection concerning Appendix R at the Cook Plant in mid-April of 1982, the NRC personnel also included as part of their inspection several other fire protection related areas. At the Exit Meeting with the Plant Staff, Mr. Jack Grobe of the NRC's Region III Staff raised a question concerning the need for fire dampers in the intake and exhaust ventilation openings to the Emergency Diesel Generator (EDG) Rooms of both Units. No dampers presently exist in these openings. The purpose of this letter is to advise you why we had not previously provided dampers and of our current plans to install seismically qualified, fire-rated dampers in these openings.

The subject dampers are required to be seismically qualified but as far as we have been able to ascertain, seismically qualified, fire-rated, curtain-type dampers were not available at the time of the design and construction of the Diesel Generator Room ventilation systems. The decision was made to not install non-seismically qualified dampers in the ventilation intake and exhaust openings. If these non-seismic dampers were to close accidentally during a seismic event, the required ventilation would be eliminated. If this occurred during Diesel Generator operation, the Diesel Generator Room would heat up and probably affect Diesel Generator operation, possibly resulting in engine shutdown.

The Diesel Generator Room ventilation intakes are located on an outside wall, away from any fire exposures. The intakes are above the Diesel Generator Room ceiling and, as demonstrated in previous concentration tests, do not promote carbon dioxide dilution in the event of operation of the suppression system.

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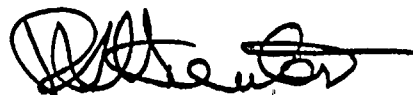
The Diesel Generator Room ventilation exhausts discharge into the corridors between the Diesel Generator Rooms which are open to the east side of the Turbine Room basements. These areas have been classified as a slight hazard potential in our Fire Hazards Analysis Report dated March 31, 1977. The exhaust openings are located in the upper portion of the Diesel Generator Room walls and, as demonstrated in previous concentration tests, do not promote significant carbon dioxide dilution in the event of operation of the suppression system.

The results of the above-mentioned carbon dioxide concentration tests further supported our position of not installing non-seismic dampers in the intake and exhaust openings.

Seismically qualified dampers are now available and we will be installing seismically qualified, three hour fire-rated, curtain-type dampers in the intake and exhaust openings of the Diesel Generator Rooms of both Units. In addition, we are planning to investigate whether there may be other areas in the Plant which result in a similar condition as discussed above and will take corrective action to resolve any that we find.

This letter has been prepared following Corporate Procedures which incorporate a reasonable set of controls to insure its accuracy prior to signature by the undersigned.

Very truly yours,



R. S. Hunter
Vice President

/md

cc: John E. Dolan - Columbus
R. W. Jurgensen
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Charnoff
Joe Williams, Jr.
NRC Resident Inspector at Cook Plant - Bridgman

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Ado!